



Kerala Forest & Wildlife Department
FOREST STATISTICS - 2016

Prepared by

Statistics Wing, Forest Headquarters
Thiruvananthapuram



Kerala Forest Department

Forest Statistics

2016

Prepared by-Statistics wing, Forest headquarters, Thiruvananthapuram.

Preface

The State of Kerala is endowed with rich natural resources. Tropical climate with plenty of sunshine and rainfall favours forests with rich biodiversity and endemism. Western Ghats, one of the Biodiversity hotspots, is running all along the length of Kerala and forms its eastern boundary. Increasing population and changing lifestyles of the people is exerting great pressure on forests. The greatest challenge faced by present day foresters is to accommodate developmental needs without causing destruction of its rich forests.

A manager has to base his decisions on the available data/ information on the subject. The broader and the accurate data base better will be the quality of decisions and efficiency of administration. Analysis of the past performance is a pre-requisite for developing future strategies of management.

'Forest Statistics' is one such effort made by Statistics Wing headed by Deputy Director (Statistics), to compile and provide vital statistical data much needed by the policy makers to formulate future policies. It is equally needed by various Scientific Institutions, Research Scholars and students of science in their endeavour.

I hope this compilation of data base about the Kerala Forest Department will be of value for various segments of the society.

Thiruvananthapuram
27.07.2017

Sd/-
P.K.Kesavan IFS
Principal Chief Conservator of Forests
(Forest, Land & Resource)

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CHAPTER – 1

FOREST AREA

The forest area under the administrative charge of the department is 11309.4754 KM² at the close of the year 2015-16 and forms 29.10% of the total geographical area of Kerala state (38863 KM²).

Distribution of forest area according to legal status is given in table 1.1.

Table 1.1-Distribution of forest area according to legal status (KM²)

Reserve forest	Proposed reserve	Vested forest+EFL	Total
1	2	3	4
9176.3016	295.3781	1837.7957	11309.4754
81.14%	2.61 %	16.25%	100%

Reserve forest:

The forest reserved under Section 19 of Kerala Forest Act and includes forest notified under Section 4 of said act.

Vested forest:

Any forest vested in government under Section 3 of the Kerala Private Forest (Vesting & Assignment) Act, 1971.

Ecologically fragile land:

‘Ecologically fragile land’ means any portion of land held by any person and lying contiguous or encircled by a reserve forest or vested forest or any other forest land owned by the Government and predominantly supporting natural vegetation; and any land declared to be Ecologically fragile land (EFL) by the Government by notification in the official gazette under section 4 of Kerala forest act.

Table 1.2-Division-wise area of forest as on 31.03.2016 (KM²)

Sl No.	Division	Reserve forests	Proposed reserve	Vested forest+EFL	Total	% of total
1	2	3	4	5	6	7
Southern circle, Kollam						
1	Thiruvananthapuram	359.1240	5.8253	3.6510	368.6003	3.26
2	Thenmala	123.4320	-	7.7350	131.1670	1.16
3	Achencoil	284.3298	-	0.2082	284.5380	2.52
4	Ranni	1050.3360	7.1600	1.5680	1,059.0640	9.36
5	Punalur	280.0510	-	0.1690	280.2200	2.48
6	Konni	320.6430	11.0210	-	331.6640	2.93
Total		2417.9158	24.0063	13.3312	2455.2533	21.71
High range circle, Kottayam						
7	Kothamangalam	316.8451	-	0.1576	317.0027	2.80
8	Munnar	440.4900	175.2750	2.4500	618.2150	5.47
9	Marayoor	13.9720	47.2600	0.0760	61.3080	0.54
10	Mankulam	90.0600	-	-	90.0600	0.80
11	Kottayam	627.2870	-	31.9670	659.2540	5.83
Total		1488.6541	222.5350	34.6506	1745.8397	15.44
Central circle, Thrissur						
12	Vazhachal	413.9440	-	-	413.9440	3.66
13	Chalakydy	279.7098	-	-	279.7098	2.47
14	Malayattoor	617.2411	0.5248	-	617.7659	5.46
15	Thrissur	293.7430	-	4.3137	298.0567	2.64
Total		1,604.6379	0.5248	4.3137	1609.4764	14.23

S1 No.	Division	Reserve forests	Proposed reserve	Vested forest+EFL	Total	% of total
1	2	3	4	5	6	7
Eastern circle, Palakkad						
16	Mannarkkad	150.7322	-	271.7213	422.4535	3.74
17	Nilambur North	57.9196	0.0171	340.7032	398.6399	3.52
18	Nilambur South	267.3894	-	57.8888	325.2782	2.88
19	Palakkad	73.4100	-	162.0847	235.4947	2.08
20	Nenmara	205.5170	-	150.2104	355.7274	3.15
Total		754.9682	0.0171	982.6084	1737.5937	15.37
Northern circle, Kannur						
21	Kozhikode	24.3998	22.9660	243.0856	290.4514	2.57
22	Wayanad North	134.0240	15.0640	65.8527	214.9407	1.90
23	Wayanad South	66.1381	6.8449	274.6810	347.6640	3.07
24	Kannur	121.3702	0	65.2014	186.5716	1.65
25	Kasaragode	86.0221	0	33.7083	119.7304	1.06
Total		431.9542	44.8749	682.5290	1159.3581	10.25
Agasthyavanam biological park						
26	Thiruvananthapuram (WL)	212.0000	-	-	212.0000	1.87
27	Shenthuruni	166.4200	-	4.5800	171.0000	1.51
Total		378.4200	-	4.5800	383.0000	3.38
Field director (Project tiger), Kottayam						
28	Periyar East	618.0000	-	-	618.0000	5.46
29	Periyar West	157.0000	-	-	157.0000	1.39
30	Munnar	276.8450	-	-	276.8450	2.45

S1 No.	Division	Reserve forests	Proposed reserve	Vested forest+EFL	Total	% of total
1	2	3	4	5	6	7
31	Idukki	130.5240	-	-	130.5240	1.15
Total		1182.3690	-	-	1182.3690	10.45
Wildlife circle, Palakkad						
32	Parambikulam	274.1408	-	-	274.1408	2.42
33	Wayanadu (WL)	344.4400	-	-	344.4400	3.05
34	Silent Valley	154.3800	-	83.1400	237.5200	2.10
35	Peechi	122.0644	3.4200	-	125.4844	1.11
36	Aralam	22.3572	-	32.6428	55.0000	0.49
Total		917.3824	3.4200	115.7828	1036.5852	9.17
Grand Total		9176.3016	295.3781	1837.7957	11309.4754	

- Reconciliation process on forest area is being done. The figures furnished above are subject to minor variations in this process.
- Vide gazette No. 1741 dt: 12.07.2015 and gazette No. 2833 dt: 16.02.2015, 273.916 Ha mangrove forests in Kannur District was notified as Reserve Forest (Under section 19)
- Vide GO (P) No. 47/2015 F&WLD dated: 29.06.2015, an extent of 65.16 Ha in South Wayanad Division was notified as proposed reserve.

Table 1.3-Classification of forest types as on 31.03.2016

Sl No.	Type	Area (KM²)	% of total
1	2	3	4
1	Tropical wet Evergreen and Semi Evergreen	3877.4413	34.28
2	Tropical Moist Deciduous	3615.9840	31.97
3	Tropical Dry Deciduous	391.3636	3.46
4	Montane Sub-tropical Temperate sholas	386.4210	3.42
5	Plantations	1549.5033	13.70
6	Grass Lands	501.0865	4.43
7	Others	987.6757	8.73
	Total	11309.4754	

The distribution of forest area according to utilization is given below in table 1.4.

Table 1.4-Classification of forest area according to utilization as on 31.03.2016

Sl No.	Mode of utilization	Area (KM²)	% of total
1	2	3	4
1	Dense Forests / Degraded Forest	8852.8761	78.28
2	Plantation	1549.5033	13.70
3	Area under lease	523.7198	4.63
4	Forest land diverted under FCA	383.3762	3.39
	Total	11309.4754	

Range wise area of forest under each division is given in table 1.5.

Table 1.5- Range wise area of forest as on 31.03.2016

Sl No.	Division/Range	Area (KM²)
1	2	3
Territorial divisions		
1	Thiruvananthapuram	
1	Kulathupuzha	219.6883
2	Palode	107.5010
3	Paruthippally	41.4110
	Total	368.6003
2	Thenmala	
4	Ariyankavu	73.6660

Sl No.	Division/Range	Area (KM²)
1	2	3
5	Thenmala	57.5010
	Total	131.1670
3	Achencovil	
6	Achancovil	88.9550
7	Kallar	78.9890
8	Kanayar	116.5940
	Total	284.5380
4	Ranni	
9	Ranni	136.2367
10	Goodrikkal	653.9673
11	Vadasserikkara	268.8600
	Total	1059.0640
5	Punalur	
12	Anchal	148.4120
13	Pathanapuram	131.8080
	Total	280.2200
6	Konni	
14	Konni	62.7280
15	Naduvathumoozhi	138.9360
16	Mannarappara	130.0000
	Total	331.6640
7	Kothamangalam	
17	Thodupuzha	218.3896
18	Kothamangalam	12.15310
19	Kaliyar	49.0800
20	Mullaringad	37.3800
	Total	317.0027
8	Munnar	
21	Munnar	106.1900
22	Devikulam	298.4130
23	Adimali	110.8720
24	Neriyamangalam	102.7400
	Total	618.2150
9	Marayoor	
25	Marayoor	41.0410
26	Kanthalloor	20.2670
	Total	61.3080

Sl No.	Division/Range	Area (KM²)
1	2	3
10	Mankulam	
27	Mankulam	51.8772
28	Anakulam	38.1803
	Total	90.0575
11	Kottayam	
29	Erumeli	162.1830
30	Ayyappancovil	88.0790
31	Nagarampara	143.4000
32	Kumili	265.5920
	Total	659.2540
12	Vazhachal	
33	Charpa	59.9750
34	Vazhachal	90.6430
35	Sholayar	138.8800
36	Kollathirumed	29.3480
37	Athirappally	95.0980
	Total	413.9440
13	Chalakydy	
38	Pariyaram	115.3118
39	Palappilly	55.9971
40	Vellikkulangara	108.4009
	Total	279.7098
14	Malayattoor	
41	Kalady	72.5149
42	Kodanadu	56.7410
43	Thundathil	131.4000
44	Kuttampuzha	187.0400
45	Edamalayar	170.0700
	Total	617.7659
15	Thrissur	
46	Vadakkancherry	56.8530
47	Pattikkad	167.5787
48	Machad	73.6250
	Total	298.0567
16	Mannarkkad	
49	Attappadi	169.4309
50	Agali	129.0102

Sl No.	Division/Range	Area (KM²)
1	2	3
51	Mannarkkad	124.0124
	Total	422.4535
17	Nilambur north	
52	Nilambur	140.6156
53	Edavanna	102.8365
54	Vazhikadavu	155.1878
	Total	398.6399
18	Nilambur south	
55	Kalikavu	59.6707
56	Karulai	265.6076
	Total	325.2782
19	Palakkad	
57	Olavakkode	80.1408
58	Walayar	121.8025
59	Ottappalam	33.5514
	Total	235.4947
20	Nenmara	
60	Nelliyampathi	206.3626
61	Kollengode	68.2413
62	Alathur	81.1235
	Total	355.7274
21	Kozhikkode	
63	Peruvannamoozhi	130.6934
64	Kuttiyadi	44.8000
65	Thamarassery	114.9580
	Total	290.4514
22	Wayanad north	
66	Begoor	104.1612
67	Periya	84.7323
68	Mananthavady	26.0472
	Total	214.9407
23	Wyanad south	
69	Kalpetta	130.1101
70	Meppady	133.0139
71	Chethalayam	84.5400
	Total	347.6640

Sl No.	Division/Range	Area (KM²)
1	2	3
24	Kannur	
72	Kannavam	83.9893
73	Kottiyoor	81.3164
74	Thalipparamba	21.2659
	Total	186.5716
25	Kasaragode	
75	Kanjangad	59.3725
76	Kasaragode	60.3579
	Total	119.7304
	Wildlife divisions	
26	Thiruvananthapuram	
77	ABP, Kottoor	31.0000
78	Neyyar Sanctuary	128.0000
79	Peppara Sanctuary	53.0000
	Total	212.0000
27	Shenduruney	
80	Shendurney Sancutuary	171.0000
	Total	171.0000
28	Periyar east ,Thekkady	
81	Periyar	376.0000
82	Thekkady	99.0000
83	Vallakkadavu	143.0000
	Total	618.0000
29	Periyar west, Peerumedu	
84	Pampa	90.0700
85	Azhutha	66.9300
	Total	157.0000
30	Idukki	
86	Idukki	105.3640
87	Thattekkad	25.1600
	Total	130.5240
31	Parambikulam	
88	Sunkom	81.7508
89	Parambikulam	52.1800
90	Orukkomban	71.8370
91	Karimala	68.3730
	Total	274.1408

Sl No.	Division/Range	Area (KM²)
1	2	3
32	Wayanad	
92	Tholpetty	77.6700
93	Kurichiyatt	106.4500
94	Muthanga	74.2900
95	Bathery	86.0300
	Total	344.4400
33	Silent valley	
96	Silent valley national park	143.5200
97	Bhavani	94.0000
	Total	237.5200
34	Munnar WL	
98	Eravikulam national park	97.0000
99	Chinnar wild life sanctuary	90.4420
100	Shola national park	89.4030
	Total	276.8450
35	Peechi	
101	Peechi	40.4174
102	Chimmini	85.0670
	Total	125.4844
36	Aralam	
103	Aralam	55.0000
	Total	55.0000
	Grand total	11309.4754

District wise forest area

District wise forest area (approx), as on 31.03.2016 is shown in Table 1.6.

Table 1.6-District wise forest area as on 31.03.2016

Sl No.	District	Area (KM²)
1	2	3
1	Thiruvananthapuram	463.8341
2	Kollam	840.5672
3	Pathanamthitta	1533.7937
4	Kottayam	100.8450
5	Ernakulam	823.8302
6	Idukki	2713.7226

Sl No.	District	Area (KM²)
1	2	3
7	Thrissur	1022.7517
8	Palakkad	1527.3564
9	Malappuram	723.9181
10	Kozhikode	290.4514
11	Wayanad	907.0447
12	Kannur	241.5716
13	Kasaragode	119.7304
	Total	11309.4171

Table 1.7- District wise forest area (approx) by legal status as on 31.03.2016 (KM²)

Sl No.	Division	Reserve forest/ Proposed reserve	Vested forest + EFL	Total (KM²)
1	2	3	4	5
1	Thiruvananthapuram			
	Thiruvananthapuram	248.1831	3.6510	251.8341
	Thiruvananthapuram(WL)	212.0000		212.0000
	Total	460.1831	3.6510	463.8341
2	Kollam			
	Thiruvananthapuram	116.7662		116.7662
	Thenmala	123.4320	7.7350	131.1670
	Punalur	280.0510	0.1690	280.2200
	Konni	78.3900		78.3900
	Achencoil	62.8158	0.2082	63.0240
	Shendurney	166.4200	4.5800	171.0000
	Total	827.8750	12.6922	840.5672
3	Pathanamthitta			
	Konni	253.2740		253.2740
	Ranni	1057.4960	1.5680	1059.0640
	Achencoil	221.4557		221.4557
	Total	1532.2257	1.5680	1533.7937
4	Kottayam			
	Kottayam	100.8450		100.8450
	Total	100.8450		100.8450
5	Ernakulam			
	Malayattoor	615.0911		615.0911
	Munnar	52.0800		52.0800

Sl No.	Division	Reserve forest/ Proposed reserve	Vested forest + EFL	Total (KM ²)
1	2	3	4	5
	Vazhachal	95.0980		95.0980
	Kothamangalam	36.4011		36.4011
	Idukki (WL)	25.1600		25.1600
	Total	823.8302		823.8302
6	Idukki			
	Kottayam	526.4420	31.9670	558.4090
	Munnar	563.6850	2.4500	566.1350
	Marayoor	61.2320	0.0670	61.3080
	Kothamangalam	280.4440	0.1576	280.6016
	Thekkady (WL)	618.0000		618.0000
	Munnar (WL)	276.8450		276.8450
	Peerumedu (WL)	157.0000		157.0000
	Mankulam Spl. Divn.	90.0600		90.0600
	Idukki (WL)	105.3640		105.3640
	Total	2679.0720	34.6506	2713.7226
7	Thrissur			
	Thrissur	293.7430	4.3137	298.0567
	Malayattoor	2.6748		2.6748
	Chalakkudy	279.7098		279.7098
	Vazhachal	318.8460		318.8460
	Peechi	123.4644		123.4644
	Total	1018.4380	4.3137	1022.7517
8	Palakkad			
	Nenmara	205.5170	150.2104	355.7274
	Palakkad	73.4100	162.0847	235.4947
	Mannarkkad	150.7322	271.7213	422.4535
	Parambikulam (WL)	274.1408		274.1408
	Silent valley (WL)	154.3800	83.1400	237.5200
	Peechi	2.0200		2.0200
	Total	860.2000	667.1564	1527.3564
9	Malappuram			
	Nilambur south	267.3894	57.8888	325.5200
	Nilambur north	57.9367	340.7032	398.6399
	Total	325.3261	398.5920	723.9181
10	Kozhikkode			
	Kozhikkode	47.3658	243.0856	290.4514
	Total	47.3658	243.0856	290.4514
11	Wayanad			

Sl No.	Division	Reserve forest/ Proposed reserve	Vested forest + EFL	Total (KM ²)
1	2	3	4	5
	Wayanad north	149.0880	65.8527	214.9407
	Wayanad south	72.9830	274.6810	347.6640
	Wayanad (WL)	344.4400		344.4400
	Total	566.5110	340.5337	907.0447
12	Kannur			
	Kannur	121.3702	65.2014	186.5716
	Aralam (WL)	22.3572	32.6428	55.0000
	Total	143.7275	97.8442	241.5716
13	Kasaragode			
	Kasaragode	86.0221	33.7083	119.7304
	Total	86.0221	33.7083	119.7304
	Grand total	9471.6215	1837.7957	11309.4171*

* Difference due to an area of 0.0583KM² because of the forest lands available in Nanjangud, Mysore and Pollachi which are outside the territorial boundaries of Kerala.

Diversion of forest land

A total area of 383.3762 KM² has been allotted to different agencies for non forestry purposes as per FCA 1980 are summarised in table 1.8.

Table 1.8-Details of area allotted to different agencies

Sl No	Category	Area diverted (Ha)	No. of cases	Degraded forest land(DFL) identified (Ha)	No.of cases(DFL)	Non forest land(NFL) identified(Ha)	No.of cases(NFL)
1	2	3	4	5	6	7	8
1	Defence	36.00	2	65.00	1	0.00	0
2	Dispensary/Hospital	0.61	2	0.00	0	0.00	0
3	Drinking water	7.21	23	6.71	1	0.26	1
4	Encroachment	28588.16	1	57176.00	1	0	0
5	Hydel	310.85	11	345.42	5	141.48	3
6	Irrigation	395.84	27	22.69	6	138.06	7
7	Mining	29.73	1	118.04	1	0.00	0
8	Rehabilitation	112.00	1	0.00	0	0.00	0
9	Road	35.38	21	48.76	5	0.00	0

SI No	Category	Area diverted (Ha)	No. of cases	Degraded forest land(DFL) identified (Ha)	No.of cases(DFL)	Non forest land(NFL) identified(Ha)	No.of cases(NFL)
1	2	3	4	5	6	7	8
10	School	12.96	5	25.90	2	0.00	0
11	Transmission line	755.19	66	739.86	10	351.99	9
12	Village electricity	21.73	45	12.91	2	0.00	0
13	Others	8031.96	58	85.26	5	158.20	4
	Total	38337.62	263	58646.55	39	789.99	24

EFL Area

District wise ecologically fragile land (EFL) area as on 31.03.2016 is given in table 1.9.

Table 1.9-District wise ecologically fragile land (EFL) area

Sl No.	District	Area (Ha)
1	2	3
1	Thiruvananthapuram	723.5817
2	Kollam	273.7233
3	Idukki	1398.0533
4	Thrissur	76.4046
5	Palakkad	4874.3636
6	Malappuram	1153.2027
7	Kozhikode	1544.0400
8	Wayanad	2957.8486
9	Kannur	488.1291
10	Kasaragode	663.1677
	Total	14152.5146

Note: The state has notified an approximate extent of 14910 Ha declared as ecologically fragile land. Approximate extent of 758 Ha has been denotified as per various redressal mechanism provided under EFL Act.

Source: EFL Wing

Encroachment

Details of encroachment of forest land as on 31.03.2016 is given in table 1.10.

Table 1.10- Details of encroachment of forest land as on 31.03.2016

District	Circle	Division	Extent of Encroachment (Ha)
1	2	3	4
Pathanamthitta	Southern circle, Kollam	Konni	10.59
Kollam		Ranni	1.13
		Thenmala	7.24
		Total	18.96
Ernakulam	High range Circle, Kottayam	Kothamangalam	147.60
Kottayam		Kottayam	121.49
Idukki		Munnar	1099.65
		Marayoor	0.03
		Mankulam	358.43
		Total	1727.20
Thrissur	Central Circle, Thrissur	Thrissur	147.04
Ernakulam		Malayattoor	129.29
		Total	276.33
Malappuram	Eastern circle, Palakkad	Nilambur North	682.53
Palakkad		Nilambur South	2.11
		Palakkad	190.58
		Mannarkkad	2700.34
		Nenmara	244.19
		Total	3819.75
Kozhikode	Northern circle, Kannur	Kozhikode	10.40
Wayanad		Wayanad South	1369.29
Kannur		Wayanad North	369.74
		Kannur	11.02
		Total	1760.45
Kottayam	Field Director, Kottayam	Periyar East	0.0061
Idukki		Idukki	5.40
		Total	5.4061
Thrissur	Wildlife circle, Palakkad	Peechi	193.02
		Total	193.02
		Grand Total	7801.1161

Forest cover

The forest cover in the State based on interpretation of forest survey of India 2015 is 19239 KM² which is 49.5 % of the state geographical area. In terms of forest canopy density classes, the state has 1523 KM² area under very dense forest, 9301 KM² area under moderately dense forest and 8415 KM² area under open forest.

District wise forest cover in different canopy density classes are given in table 1.11.

Table 1.11-District wise forest cover in Kerala (area in KM²)

Sl No.	District	Geographic area	2015 assessment				Percent to GA
			Very dense	Moderate dense	Open forest	Total	
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	2193	60	718	539	1317	60.05
2	Kollam	2491	99	671	632	1402	56.28
3	Pathanamthitta	2641	158	1202	382	1742	65.96
4	Alappuzha	1414	0	45	67	112	7.92
5	Kottayam	2203	12	530	341	883	40.08
6	Idukki	5019	349	2081	1340	3770	75.11
7	Ernakulam	2407	12	282	412	706	29.33
8	Thrissur	3033	181	454	490	1125	37.09
9	Palakkad	4480	317	677	767	1761	39.31
10	Malappuram	3549	142	417	916	1475	41.56
11	Kozhikode	2344	30	316	706	1052	44.88
12	Wayanad	2131	142	1256	301	1699	79.73
13	Kannur	2966	21	346	971	1338	45.11
14	Kasaragode	1992	0	306	551	857	43.02
State Total		38863	1523	9301	8415	19239	49.50

Note: The table reveals that there is an increase in forest cover to the extent of 1317 KM² as compared to previous assessment which is mainly due to commercial plantations.

Source: FSI 2015

District wise mangroves cover in Kerala in different canopy density classes is given in table 1.12.

Table 1.12-District wise mangroves cover in Kerala in KM²

SI No.	District	Mangrove cover			
		Very dense	Moderate dense	Open forest	Total
1	2	3	4	5	6
1	Ernakulam	0	1	1	2
2	Kannur	0	4	2	6
3	Kasaragode	0	0	1	1
State Total		0	5	4	9

National scenario

The total forest cover of the country as per the State of forest report 2015 is 701673 KM², which constitutes 21.34 percent of the total geographical area (3287263 KM²) of the country. Of this, 85904 KM² (2.61%) is very dense forest, 315374 KM² (9.59%) is moderately dense forest and 300395 KM² (9.14%) is open forest cover. The mangrove cover in the country is 4740 KM² which is 0.144% of the country's geographical area. The non-forest cover which includes 41362 KM² scrubs and is estimated to cover an area of 2,585590 KM² (78.65%).

Source: FSI 2015

Demarcation of forest boundaries

Demarcation of forest boundaries as 31.05.2016 is shown in table 1.13

Table 1.13-Demarcation of forest boundaries as on 31.05.2016

SI No.	Division	Total length of boundary (KM)	Length of natural boundary not requiring demarcation (KM)	Length of boundary requiring demarcation (KM)	Total length of boundary demarcated as on 30.04.2016 (KM)	Length of boundary which require demarcation as on 30.04.2016 (KM)	Junda constructed (No) during 2015-16
1	2	3	4	5	6	7	8
I	Southern circle						
1	Thiruvananthapuram	397.29	53.25	344.04	242.51	101.53	380
2	Thenmala	250.00	40.86	209.14	185.35	23.79	0
3	Punalur	798.05	483.00	315.05	292.55	22.50	150
4	Achencoil	209.65	85.51	124.13	124.13	0.00	0
5	Ranni	760.92	337.35	423.57	336.12	87.45	117
6	Konni	159.70	51.42	108.28	101.08	7.20	20
	Total	2575.61	1051.39	1524.21	1281.74	242.47	667
II	High range circle						
7	Kottayam	596.14	59.00	537.14	486.44	50.70	229
8	Munnar	1407.00	115.00	1292.00	324.00	968.00	126
9	Kothamangalam	484.11	72.50	411.61	281.05	130.56	53
10	Marayoor	97.00	27.00	70.00	62.00	8.00	130
11	Mankulam	121.77	0.00	121.77	90.37	31.40	67
	Total	2706.02	273.50	2432.52	1243.86	1188.66	605

SI No.	Division	Total length of boundary (KM)	Length of natural boundary not requiring demarcation (KM)	Length of boundary requiring demarcation (KM)	Total length of boundary demarcated as on 30.04.2016 (KM)	Length of boundary which require demarcation as on 30.04.2016 (KM)	Junda constructed (No) during 2015-16
1	2	3	4	5	6	7	8
III	Central circle						
12	Malayattoor	720.31	409.30	311.01	290.97	20.04	496
13	Vazhachal	250.00	180.00	70.00	70.00	0.00	0
14	Chalakkudy	484.99	281.40	203.59	203.59	0.00	1
15	Thrissur	795.00	25.00	770.00	752.00	18.00	518
	Total	2250.30	895.70	1354.60	1316.56	38.04	1015
IV	Eastern circle						
16	Nenmara	887.85	171.70	716.15	486.30	229.85	1469
17	Palakkad	764.99	158.19	606.80	360.35	246.45	734
18	Mannarkkad	893.00	286.00	607.00	438.20	168.80	995
19	Nilambur (S)	208.75	144.57	64.18	25.68	38.50	395
20	Nilambur (N)	721.00	356.00	365.00	300.35	64.65	1098
	Total	3475.59	1116.46	2359.13	1610.88	748.25	4691
V	Northern circle						
21	Kozhikode	815.39	150.38	665.02	451.78	213.24	897
22	Wayanadu (S)	1096.30	386.50	709.80	558.01	151.79	347
23	Wayanadu (N)	343.55	103.95	239.60	152.36	87.24	766
24	Kannur	503.35	46.00	457.35	453.35	4.00	79
25	Kasaragod	615.99	24.40	591.59	583.00	8.59	244
	Total	3374.58	711.23	2663.36	2198.50	464.86	2333

SI No.	Division	Total length of boundary (KM)	Length of natural boundary not requiring demarcation (KM)	Length of boundary requiring demarcation (KM)	Total length of boundary demarcated as on 30.04.2016 (KM)	Length of boundary which require demarcation as on 30.04.2016 (KM)	Junda constructed (No) during 2015-16
1	2	3	4	5	6	7	8
VI	Agasthyavanam Biological Park, Thiruvananthapuram						
26	Thiruvananthapuram Wildlife	220.10	67.50	152.60	129.60	23.00	0
27	Shenduruney	103.00	46.07	56.93	56.93	0.00	0
	Total	323.10	113.57	209.53	186.53	23.00	0
VII	Field Director(Project Tiger), Kottayam						
28	Periyar East	207.50	50.00	157.50	154.30	3.20	0
29	Periyar West	129.67	52.00	77.67	74.03	3.64	0
30	Idukki	160.60	145.60	15.00	13.50	1.50	15
31	Munnar WL	337.00	48.00	289.00	197.50	91.50	0
	Total	834.77	295.60	539.17	439.33	99.84	15
VIII	Wildlife, Palakkad						
32	Peechi	161.90	151.07	10.83	3.90	6.93	73
33	Parambikulam	153.50	153.50	0.00	0.00	0.00	0
34	Silent Valley	198.23	121.92	76.31	55.69	20.62	197
35	Wayanad WL	474.00	300.60	173.40	3.90	169.50	186
36	Aralam	57.39	43.39	14.00	14.00	0.00	0
	Total	1045.02	770.48	274.54	77.49	197.05	456
	Grand Total	16584.99	5227.93	11357.06	8354.89	3002.17	9782

CHAPTER – 2
FOREST PLANTATIONS

Plantation area

The total plantation area under the department as on 31.03.2016 is 154950.325 Ha, which comes to 13.7 % of the total forest area.

Plantation statistics

The distribution of plantation area (category-wise) is given in table 2.1

Table 2.1- The distribution of plantation area (category-wise)

Sl No.	Category	Area(Ha)
1	2	3
1	Territorial divisions	129797.038
2	Protected area	24825.580
3	NSC,Kalady	263.217
4	Timber sales division,Perumbavoor	64.490
Total		154950.325

The distribution of plantation area (species-wise) is given in table 2.2.

Table 2.2-Distribution of plantation area (species-wise)

Sl No.	Plantation	Area (Ha)	%
1	2	3	4
1	Hardwood	89119.663	57.515
2	Softwood	10794.522	6.966
3	Bamboo, cane & reeds	8709.915	5.621
4	Mangrove	373.189	0.241
5	Others	45953.036	29.657
Total		154950.325	

Table 2.3-Division wise area of plantation (species-wise) as on 31.03.2016 (area in Ha)

Sl No.	Division	Hard wood	Soft wood	Others	Bamboo, cane and reeds	Mangroves	Total
1	2	3	4	5	6	7	8
1	Thiruvananthapuram	4347.712	367.676	2114.567	0.000	0.000	6829.955
2	Thenmala	1804.910	971.946	3213.090	9.740	0.000	5999.686
3	Punalur	3223.710	394.680	1039.380	129.220	0.000	4786.990
4	Achenkovil	2943.730	0.000	1278.847	0.000	0.000	4222.577
5	Ranni	3966.450	0.000	2354.470	541.470	0.000	6862.390
6	Konni	8509.634	32.480	1181.716	912.900	0.000	10636.730
7	Kottayam	4185.401	252.940	1304.867	371.381	0.000	6114.589
8	Munnar	790.524	3563.410	1305.580	587.860	0.000	6247.374
9	Kothamangalam	4761.715	304.040	1233.897	266.860	0.000	6566.512
10	Marayoor	0.000	799.620	17.200	0.000	0.000	816.820
11	Mankulam	39.250	101.000	211.130	211.560	0.000	562.940
12	Malayattoor	5211.354	31.098	2678.628	86.700	0.000	8007.780
13	Vazhachal	3933.870	489.510	2881.780	363.940	0.000	7669.100
14	Chalakkudy	4622.590	107.800	1031.850	38.600	0.000	5800.840
15	Thrissur	4437.690	40.000	2033.010	0.000	0.000	6510.700
16	TS Perumbavoor	64.490	0.000	0.000	0.000	0.000	64.490
17	Nenmara	1631.930	146.540	1468.720	90.040	0.000	3337.230

Sl No.	Division	Hard wood	Soft wood	Others	Bamboo, cane and reeds	Mangroves	Total
1	2	3	4	5	6	7	8
18	Palakkad	1927.610	108.820	1390.410	173.430	0.000	3600.270
19	Mannarkkad	598.750	143.920	599.760	50.000	0.000	1392.430
20	Nilambur (south)	4659.978	0.000	539.680	177.500	0.000	5377.158
21	Nilambur (north)	4155.359	41.580	1267.660	1311.484	0.000	6776.083
22	Kozhikkode	339.860	1048.812	981.390	83.100	5.000	2458.162
23	Wayanad (south)	2693.650	1003.400	1478.680	171.000	0.000	5346.730
24	Wayanad (north)	712.450	263.930	2981.470	1281.600	0.000	5239.450
25	Kannur	703.442	0.000	3950.204	102.100	251.979	5007.725
26	Kasaragod	1208.012	0.000	1835.383	467.212	116.210	3626.817
27	Thiruvananthapuram WL	63.080	93.760	1248.381	1126.468	0.000	2531.689
28	Peechi WL	457.427	0.000	1141.887	132.250	0.000	1731.564
29	Parambikulam WL	8747.466	0.000	0.000	0.000	0.000	8747.466
30	Silent valley WL	437.300	57.890	94.000	0.000	0.000	589.190
31	Wayanad WL	7486.802	429.670	2987.899	0.000	0.000	10904.371
32	Aralam WL	291.300	0.000	30.000	0.000	0.000	321.300
33	NSC,Kalady	162.217	0.000	77.500	23.500	0.000	263.217
Grand total		89119.663	10794.522	45953.036	8709.915	373.189	154950.325

The species wise distribution of plantation area (Ha), as on 31.03.2016 is given in table 2.4.

Table 2.4-Species wise distribution of plantation area (Ha)

Sl No.	Speceis	Area (Ha)	% to total plantation	Sl.No.	Speceis	Area (Ha)	% to total plantation
1	Teak	77440.840	49.978	18	Albezzia	120.330	0.078
2	Teak & soft wood	13537.283	8.737	19	Anjili	585.039	0.378
3	Accacia mangium	3048.425	1.967	20	Kambakam	462.240	0.298
4	Accacia auriculiformis	6482.983	4.184	21	Elavu	600.980	0.388
5	Eucalyptus	7136.528	4.606	22	Rubber	44.370	0.029
6	Cane	2946.692	1.902	23	Balsa	21.040	0.014
7	Bamboo	5347.263	3.451	24	Wattle	1285.620	0.830
8	Rosewood	45.130	0.029	25	Matti	486.310	0.314
9	Mahogany	478.356	0.309	26	Cashew	4694.819	3.030
10	Sandalwood	73.840	0.048	27	Agave	41.640	0.027
11	Other Hardwood	502.810	0.324	28	Alnus	74.350	0.048
12	Reeds	415.960	0.268	29	Sesbania	21.070	0.014
13	Cinnamon	0.000	0.000	30	Casuarina	52.630	0.034
14	Pepper	100.000	0.065	31	Silver Oak	134.530	0.087
15	Medicinal plants	2025.200	1.307	32	Mangroves	373.189	0.241
16	Gravelia robusta	490.368	0.316	33	Fruit bearing	315.543	0.204
17	Pine	608.976	0.393	34	Miscellaneous	24955.971	16.106
Total						154950.325	

Table 2.5-Division/Species wise distribution of plantation area (Ha) as on 31.03.2016

SI No.	Divisions	Teak	Teak & Softwood	Accacia mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
I	Southern circle										
1	Thiruvananthapuram	555.298	327.195	1254.808	1587.509	285.000	0.000	0.000	0.000	0.000	0.000
2	Thenmala	1804.910	297.740	0.000	0.000	971.946	0.000	9.740	0.000	0.000	0.000
3	Punalur	1378.470	299.860	1321.180	398.060	340.010	0.000	129.220	0.000	0.000	0.000
4	Achencoil	2943.730	1278.847	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	Ranni	3309.350	1107.820	0.000	575.220	0.000	85.430	220.080	3.000	78.880	0.000
6	Konni	8255.324	0.000	139.210	114.500	5.440	408.000	504.900	0.000	0.600	0.000
	Total	18247.082	3311.462	2715.198	2675.289	1602.396	493.430	863.940	3.000	79.480	0.000
II	High range circle										
7	Kottayam	4176.499	43.000	0.000	0.000	191.540	140.600	230.781	0.000	0.000	0.000
8	Munnar	790.524	0.000	0.000	0.000	2330.050	0.000	587.860	0.000	0.000	0.000
9	Kothamangalam	4478.698	0.000	235.477	14.200	161.310	199.250	67.610	8.100	15.240	0.000
10	Marayoor	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	Mankulam	0.000	0.000	12.750	0.000	50.000	58.560	0.000	0.000	3.500	0.000
	Total	9445.721	43.000	248.227	14.200	2732.900	398.410	886.251	8.100	18.740	0.000
III	Central circle										
12	Malayattoor	4841.770	2592.208	0.000	348.584	0.000	0.000	74.700	0.000	21.000	0.000

SI No.	Divisions	Teak	Teak & Softwood	Accacia mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
13	Vazhachal	3885.790	1820.930	10.000	0.000	221.560	196.660	167.280	0.000	0.000	0.000
14	Chalakkudy	4499.930	0.000	0.000	122.660	0.000	0.000	38.600	0.000	0.000	0.000
15	Thrissur	2252.160	0.000	0.000	2167.120	0.000	0.000	0.000	18.410	0.000	0.000
16	TS, Perumbavoor	35.570	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	15515.220	4413.138	10.000	2638.364	221.560	196.660	280.580	18.410	21.000	0.000
IV	Eastern circle										
17	Nenmara	1283.950	0.000	0.000	84.540	146.540	47.240	42.800	0.000	2.380	5.000
18	Palakkad	1859.160	91.430	0.000	55.820	41.920	65.880	107.550	0.000	0.000	0.000
19	Mannarkkad	419.010	0.000	0.000	164.540	143.920	17.400	32.600	0.000	0.000	0.000
20	Nilambur (S)	4626.158	0.000	0.000	33.820	0.000	143.500	34.000	0.000	0.000	0.000
21	Nilambur (N)	4091.089	0.000	0.000	28.650	41.580	396.560	914.924	5.620	30.000	0.000
	Total	12279.367	91.430	0.000	367.370	373.960	670.580	1131.874	5.620	32.380	5.000
V	Northern circle										
22	Kozhikode	273.230	0.000	0.000	14.000	711.772	7.500	70.600	0.000	52.630	0.000
23	Wayanadu (S)	2370.050	0.000	10.000	267.400	752.000	25.000	136.000	0.000	4.000	0.000
24	Wayanadu (N)	483.700	1017.027	65.000	119.250	184.620	753.600	528.000	0.000	44.500	0.000
25	Kannur	390.724	2409.295	0.000	238.830	0.000	102.100	0.000	0.000	73.888	0.000
26	Kasaragod	870.774	0.000	0.000	127.780	0.000	299.412	167.800	0.000	151.738	57.720
	Total	4388.478	3426.322	75.000	767.260	1648.392	1187.612	902.400	0.000	326.756	57.720

SI No.	Divisions	Teak	Teak & Softwood	Accacia mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
VI	Agasthyavanam										
27	Thiruvananthapuram Wildlife	42.580	0.000	0.000	20.500	69.760	0.000	1126.468	0.000	0.000	0.000
	Total	42.580	0.000	0.000	20.500	69.760	0.000	1126.468	0.000	0.000	0.000
VII	Wildlife, Palakkad										
28	Peechi	457.427	134.400	0.000	0.000	0.000	0.000	132.250	0.000	0.000	0.000
29	Parambikulam	8747.466	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	Silent Valley	437.300	0.000	0.000	0.000	57.890	0.000	0.000	0.000	0.000	0.000
31	Wayanad WL	7426.682	2117.531	0.000	0.000	429.670	0.000	0.000	10.000	0.000	11.120
32	Aralam	291.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	17360.175	2251.931	0.000	0.000	487.560	0.000	132.250	10.000	0.000	11.120
VIII	Social forestry, Eranakulam										
33	NSC, Kalady	162.217	0.000	0.000	0.000	0.000	0.000	23.500	0.000	0.000	0.000
	Total	162.217	0.000	0.000	0.000	0.000	0.000	23.500	0.000	0.000	0.000
	Grand Total	77440.840	13537.283	3048.425	6482.983	7136.528	2946.692	5347.263	45.130	478.356	73.840

SI No.	Divisions	Other Hardwood	Reeds	Cinnamon	Pepper	Medicinal plants	Gravelia robusta	Pine	Albezzia	Anjili	Kambakom	Elavu	Rubber
1	2	13	14	15	16	17	18	19	20	21	22	23	24
I	Southern circle												
1	Thiruvananthapuram	0.000	0.000	0.000	0.000	254.770	0.000	62.576	7.000	566.137	383.960	0.000	0.000
2	Thenmala	0.000	0.000	0.000	0.000	15.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Punalur	126.000	0.000	0.000	0.000	133.430	0.000	0.000	0.000	0.000	0.000	0.000	44.370
4	Achencoil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	Ranni	0.000	235.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	Konni	0.000	0.000	0.000	0.000	213.430	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	126.000	235.960	0.000	0.000	616.630	0.000	62.576	7.000	566.137	383.960	0.000	44.370
II	High range circle												
7	Kottayam	0.000	0.000	0.000	0.000	8.500	0.000	61.400	0.000	8.902	0.000	0.000	0.000
8	Munnar	0.000	0.000	0.000	0.000	0.000	85.320	485.000	0.000	0.000	0.000	44.240	0.000
9	Kothamangalam	0.000	0.000	0.000	0.000	28.760	0.000	0.000	3.280	10.000	0.000	11.550	0.000
10	Marayoor	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	Mankulam	23.000	153.000	0.000	0.000	82.800	51.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	23.000	153.000	0.000	0.000	120.060	136.320	546.400	3.280	18.902	0.000	55.790	0.000
III	Central circle												
12	Malayattoor	0.000	12.000	0.000	0.000	0.000	26.098	0.000	0.000	0.000	0.000	0.000	0.000
13	Vazhachal	0.000	0.000	0.000	0.000	170.750	76.550	0.000	86.050	0.000	38.080	105.350	0.000
14	Chalakkudy	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	107.800	0.000
15	Thrissur	0.000	0.000	0.000	0.000	38.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	T S, Perumbavoor	28.920	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	28.920	12.000	0.000	0.000	209.000	102.648	0.000	86.050	0.000	38.080	213.150	0.000
IV	Eastern circle												
17	Nenmara	256.060	0.000	0.000	0.000	7.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SI No.	Divisions	Other Hardwood	Reeds	Cinnamon	Pepper	Medicinal plants	Gravelia robusta	Pine	Albezzia	Anjili	Kambakom	Elavu	Rubber
1	2	13	14	15	16	17	18	19	20	21	22	23	24
18	Palakkad	12.630	0.000	0.000	0.000	84.520	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	Mannarkkad	15.200	0.000	0.000	0.000	62.820	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	Nilambur (S)	0.000	0.000	0.000	0.000	78.360	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	Nilambur (N)	0.000	0.000	0.000	0.000	89.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	283.890	0.000	0.000	0.000	322.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000
V	Northern circlce												
22	Kozhikode	0.000	5.000	0.000	0.000	8.000	0.000	0.000	0.000	0.000	0.000	332.040	0.000
23	Wayanadu (S)	2.000	10.000	0.000	0.000	85.280	251.400	0.000	0.000	0.000	40.200	0.000	0.000
24	Wayanadu (N)	0.000	0.000	0.000	30.000	482.820	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	Kannur	0.000	0.000	0.000	70.000	93.260	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	Kasaragod	0.000	0.000	0.000	0.000	47.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	2.000	15.000	0.000	100.000	716.760	251.400	0.000	0.000	0.000	40.200	332.040	0.000
VI	Agasthyavanam												
27	Thiruvananthapuram	0.000	0.000	0.000	0.000	15.000	0.000	0.000	24.000	0.000	0.000	0.000	0.000
	Total	0.000	0.000	0.000	0.000	15.000	0.000	0.000	24.000	0.000	0.000	0.000	0.000
VII	Wildlife, Palakkad												
28	Peechi	0.000	0.000	0.000	0.000	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	Parambikulam	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	Silent Valley	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	Wayanad	39.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32	Aralam	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SI No.	Divisions	Other Hardwood	Reeds	Cinnamon	Pepper	Medicinal plants	Gravelia robusta	Pine	Albezzia	Anjili	Kambakom	Elavu	Rubber
1	2	13	14	15	16	17	18	19	20	21	22	23	24
	Total	39.000	0.000	0.000	0.000	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VIII	Social forestry,Eranakulam												
33	NSC,Kalady	0.000	0.000	0.000	0.000	21.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total	0.000	0.000	0.000	0.000	21.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Grand Total	502.810	415.960	0.000	100.000	2025.200	490.368	608.976	120.330	585.039	462.240	600.980	44.370

SI No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total plantation
1	2	25	26	27	28	29	30	31	32	33	34	35	36	37
I	Southern circle													
1	Thiruvananthapuram	0.000	0.000	13.100	158.504	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1374.098	6829.955
2	Thenmala	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2900.350	5999.686
3	Punalur	0.000	0.000	10.300	9.500	0.000	0.000	0.000	0.000	0.000	0.000	10.000	586.590	4786.990
4	Achencoil	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4222.577
5	Ranni	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1246.650	6862.390
6	Konni	21.040	0.000	6.000	0.000	32.000	0.000	0.000	0.000	0.000	0.000	0.000	936.286	10636.730
	Total	21.040	0.000	29.400	168.004	32.000	0.000	0.000	0.000	0.000	0.000	10.000	7043.974	39338.328
II	High range circle													
7	Kottayam	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1253.367	6114.589
8	Munnar	0.000	485.000	133.800	0.000	0.000	61.600	0.000	0.000	0.000	0.000	0.000	1243.980	6247.374
9	Kothamangalam	0.000	0.000	127.900	54.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1151.137	6566.512

SI No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total plantation
1	2	25	26	27	28	29	30	31	32	33	34	35	36	37
10	Marayoor	0.000	799.620	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.200	816.820
11	Mankulam	0.000	0.000	0.000	0.000	0.000	12.750	0.000	0.000	0.000	0.000	0.000	115.580	562.940
	Total	0.000	1284.620	261.700	54.000	0.000	74.350	0.000	0.000	0.000	0.000	0.000	3781.264	20308.235
III	Central circle													
12	Malayattoor	0.000	0.000	5.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	86.420	8007.780
13	Vazhachal	0.000	0.000	0.000	0.000	0.000	0.000	21.070	0.000	0.000	0.000	0.000	869.030	7669.100
14	Chalakkudy	0.000	0.000	0.000	161.870	0.000	0.000	0.000	0.000	0.000	0.000	0.000	869.980	5800.840
15	Thrissur	0.000	0.000	40.000	1994.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6510.700
16	TS,Perumbavoor	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	64.490
	Total	0.000	0.000	45.000	2156.630	0.000	0.000	21.070	0.000	0.000	0.000	0.000	1825.430	28052.910
IV	Eastern circle													
17	Nenmara	0.000	0.000	0.000	300.830	0.000	0.000	0.000	0.000	75.030	0.000	0.000	1085.360	3337.230
18	Palakkad	0.000	0.000	66.900	17.170	0.000	0.000	0.000	32.630	0.000	0.000	5.000	1159.660	3600.270
19	Mannarkkad	0.000	0.000	0.000	152.710	9.640	0.000	0.000	0.000	0.000	0.000	0.000	374.590	1392.430
20	Nilambur (S)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	461.320	5377.158
21	Nilambur (N)	0.000	0.000	0.000	352.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	825.760	6776.083
	Total	0.000	0.000	66.900	823.310	9.640	0.000	0.000	32.630	75.030	0.000	5.000	3906.690	20483.171
V	Northern circle													
22	Kozhikode	0.000	0.000	5.000	150.060	0.000	0.000	0.000	20.000	0.000	5.000	0.000	803.330	2458.162
23	Waynadu (S)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	59.500	0.000	0.000	1333.900	5346.730
24	Waynadu (N)	0.000	1.000	78.310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1451.623	5239.450
25	Kannur	0.000	0.000	0.000	107.250	0.000	0.000	0.000	0.000	0.000	251.979	0.000	1270.399	5007.725
26	Kasaragod	0.000	0.000	0.000	1127.715	0.000	0.000	0.000	0.000	0.000	116.210	0.000	660.268	3626.817
	Total	0.000	1.000	83.310	1385.025	0.000	0.000	0.000	20.000	59.500	373.189	0.000	5519.520	21678.884

SI No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total plantation
1	2	25	26	27	28	29	30	31	32	33	34	35	36	37
VI	Agasthyavanam													
27	Thiruvananthapuram WL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	300.543	932.838	2531.689
	Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	300.543	932.838	2531.689
VII	Wildlife, Palakkad													
28	Peechi	0.000	0.000	0.000	35.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	968.487	1731.564
29	Parambikulam	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8747.466
30	Silent Valley	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	94.000	589.190
31	Wayanad WL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	870.368	10904.371
32	Aralam	0.000	0.000	0.000	30.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	321.300
	Total	0.000	0.000	0.000	65.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1932.855	22293.891
VIII	Social forestry, Eranakulam													
33	NSC, Kalady	0.000	0.000	0.000	42.850	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.400	263.217
	Total	0.000	0.000	0.000	42.850	0.000	0.000	0.000	0.000	0.000	0.000	0.000	13.400	263.217
	Grand Total	21.040	1285.620	486.310	4694.819	41.640	74.350	21.070	52.630	134.530	373.189	315.543	24955.971	154950.325

Fire affected plantations:

Details of plantations (species wise) affected by fire during the year 2015-16 are shown in table 2.6.

Table 2.6-Details of plantations affected by fire during 2015-16 (Area in Ha)

Sl No.	Division	Teak	Eucalyptus	Miscellaneous	Bamboo	Accacia	Mangium	Others	Total
1	2	3	4	5	6	7	8	9	10
1	Thiruvananthapuram	30.000	0	0	0	6.000	11.000	2.000	49.000
2	Thenmala	7.500	1.000	0	0	1.500	0	0	10.000
3	Punalur	5.000	0	0	0	0	5.000	2.000	12.000
4	Konni	39.300	0	0	0	0	0	0	39.300
5	Kottayam	6.020	0	7.500	0	0	0	0	13.520
6	Kothamangalam	4.100	0	0	0	0	0	2.00	6.100
7	Chalakydy	39.500	0	8.000	0	0	0	0	47.500
8	Thrissur	54.962	0	7.000	6.000	0	0	11.500	79.462
9	Malayattoor	4.670	0	2.150	0	0	0	0	6.820
10	Nilambur north	15.700	0	0	0	0	0	0	15.700
11	Palakkad	10.500	0	0	0	0	0	0	10.500
12	Nenmara	3.000	0	0	0	0	0	0	3.000
	Total	220.252	1.000	24.650	6.000	7.500	16.000	17.500	292.902

Plantations under Kerala forest development corporation (KFDC)

A State owned public sector undertaking was set up on 24.01.1975 as an off-shoot of the forest department pursuant to the recommendations of the National Agricultural Commission's report 1972 to mobilize institutional finance to establish large scale forest plantations over 80000 Ha for the development and establishment of wood based industries in the State.

The species wise plantation area under the management of KFDC as on 31/03/2016 is given in table 2.7.

Table 2.7-Species wise plantation area of KFDC

Sl No.	Species	Area (Ha)
1	2	3
1	Teak & Soft wood	1251.994
2	Acacia auriculifomis/Acacia manjium/Acacia crassicarpa	2107.545
3	Eucalyptus	2479.999
4	Cardamom	954.110
5	Bamboo	834.576
6	Tea	100.670
7	Coffee	597.427
8	Cashew	312.263
9	Rubber	57.936
10	Pepper	3.800
11	Red sandal wood	80.977
12	Sandal wood	17.97
13	Medicinal species	0.780
14	Vagamon orchidarium	15.220
15	Eco-tourism zone	668.070
16	Pine, alnus, casurina, failed eucalyptus, etc	112.514
17	Unproductive / Swamp / Rock / Buildings, etc	458.613
Total		10054.464

CHAPTER – 3

RESOURCES

3.1- Natural resources

3.1.1- Procurement of minor forest produce

Procurement of minor forest produce during 2015-16 is given in table 3.1.

Table 3.1 -Procurement of minor forest produce during 2015-16

Sl No.	Name	Quantity (kg)
1	2	3
1	Ayurvedic herbs	732560.10
2	Spices	4745.00
3	Fibre	8361.00
4	Grass other than fodder	127693.00
5	Incensive plants	10437.70
6	Honey	56176.90
7	Bee Wax	272.40
8	Vegetable oil seeds	4415.00

Source: Kerala State federation of SC/ST development co-operatives Ltd.

Table 3.2-Details on species wise procurement of minor forest produce during 2015-16

Sl No.	Item	Quantity procured (kg)	Unit price (₹)	Value (₹)
1	2	3	4	5
1	Adalodakam	10819.00	10.35	111998.00
2	Cheenikka	73253.00	29.76	2180145.00
3	Athithippali	9056.00	60.00	543390.00
4	Cheruthekku	1835.00	46.86	85992.00
5	Cheruthen	24675.00	231.04	5700860.00
6	Cheruvazhuthana	27136.00	50.21	1362515.00
7	Chittamrithu	136.00	6.00	816.00
8	Chool Pullu	127693.00	17.57	2243163.00
9	Chunda	99891.00	12.43	1241968.00
10	Ekanayakam	1500.00	15.00	22500.00

Sl No.	Item	Quantity procured (kg)	Unit price (₹)	Value (₹)
1	2	3	4	5
11	Elakka	2.00	332.50	665.00
12	Kakkumkai/Parantakai	25.00	17.92	448.00
13	Kalpasam	9755.70	295.16	2879462.00
14	Karimkurinji	87454.00	22.86	1999311.00
15	Kasturimanjal	1147.00	62.84	72079.00
16	Kattukurumulaku	3596.00	32.63	117349.00
17	Kattukurumulaku valli	8361.00	39.51	330361.00
18	Kattupadavalam	34.30	75.69	2596.00
19	Kolinchi	118.00	65.00	7670.00
20	Koppuvella	28.00	60.39	1691.00
21	Kunthirikkom	4456.70	101.32	451556.00
22	Kurumthotti	266384.00	17.17	4574753.00
23	Marottikkuru	543.00	111.69	60650.00
24	Moovila	61844.00	62.04	3836646.00
25	Nannari/Naruneendi	10.50	250.00	2625.00
26	Orilaveru	17117.00	48.93	837561.00
27	Pachotti patta	13963.00	48.20	673036.00
28	Padakizhangu	430.50	194.63	83786.50
29	Palmuthakku	4390.00	14.68	64451.00
30	Pathiripoovu	598.10	379.63	227057.63
31	Pattincha/Incha	4938.00	55.93	276169.00
32	Peenari	8591.00	33.72	289688.00
33	Putharichunda	41687.00	14.25	593929.00
34	Seethari	1015.00	85.36	86641.00
35	Tharavella	253.00	28.50	7210.00
36	Thippali	151.00	32.00	4832.00
37	Vanthen	31501.90	244.89	7714634.00
38	Wax(Bee Wax)	272.40	283.19	77140.00
	Total			38767344.13

Source: Kerala State federation of SC/ST development co-operatives Ltd.

3.1.2- Outturn of major forest produce

Outturn of major forest produce during the reporting year is shown in table 3.3.

Table 3.3- Outturn of major forest produce during 2015-16

Sl No.	Category	Unit	Quantity
1	2	3	4
1	Industrial wood	M ³	31185.936
2	Plywood	,,	651.974
3	Match wood	,,	596.002
4	Bobbin wood	,,	35.337
5	Packing case wood	,,	296.124
6	Pulpwood	MT	26824.588
7	Miscellaneous		
a	Timber	M ³	8008.516
b	Fire wood/ Billets	MT	5831.270
c	Sandal wood	kg	68644.600
d	Teak poles	MT	9354.813
e	Other poles	MT	459.600

Species wise receipts of major forest produce

Species wise receipts of major forest produce during 2015-16 is shown in table 3.4

Table 3.4-Species wise receipts of major forest produce during 2015-16

Sl No.	Species	Unit	Receipts
1	2	3	4
Industrial wood			
1	Teak	M ³	25282.341
2	Rosewood	,,	148.421
3	Mahogany	,,	14.746
4	Anjili	,,	343.536
5	Kambakom / Thambakam / Urippu	,,	40.042
6	Thembavu / Karimaruthu	,,	272.339
7	Venga / Karavenga / Manivenga	M ³	48.350
8	Venteak	,,	340.216
9	Jack/ Plavu	,,	347.726
10	Myla	,,	4.246
11	Manimaruthu / Neerventeak / Poomaruthu	,,	76.203

Sl No.	Species	Unit	Receipts
1	2	3	4
12	Maruthu	„	1823.339
13	Irul / Kadamaram	„	999.700
14	Mulluvengai	„	313.897
15	Unnam/Chadachi	„	538.081
16	Thanni	„	330.260
17	Karimthakara	„	1.222
18	Pathiri	„	3.719
19	Poovam	„	89.441
20	Kunnivaka	„	163.260
21	Kanjiram	„	2.601
22	Kanikonna	„	2.254
	Total		31185.936
Plywood			
1	Kulamavu / Ooravu	M ³	305.728
2	Kannanvaka / Velleeti	„	1.056
3	Mavu	„	9.291
4	Redcedar/ Chandanavembu	„	62.142
5	Poon/Punna/Punnavu	„	56.505
6	Cheeni	„	34.159
7	Kumbil	„	16.313
8	Njaval / Njara	„	35.511
9	Vellapine	„	5.893
10	Cheru	„	63.121
11	Karimurukku	„	1.706
12	Attuthekku / Kadambu	„	0.824
13	Silver oak	„	31.745
14	Gulmohar / Poovaka / Poomaram	„	3.152
15	Aval	„	2.516
16	Arayanjili	„	6.045
17	Chuvannakil / Karadi	„	16.267
	Total		651.974
Matchwood			
1	Elavu/Poola	M ³	272.894
2	Pala / Mukkampala	„	132.011
3	Vaka	„	138.521
4	Matti	„	23.023
5	Nasakom/Kanala	„	0.694

Sl No.	Species	Unit	Receipts
1	2	3	4
6	Vazhapunna	„	14.887
7	Kanakitha	„	2.884
8	Murikku	„	6.481
9	Azhanthal	„	0.609
10	Anakkara / Kattunelli / Kilinji	„	3.998
	Total		596.002
Bobbinwood			
1	Akil/Vellakil	M ³	16.561
2	Manjakadambu	„	18.776
	Total		35.337
Packing case wood			
1	Kara /Rudraksham	M ³	2.156
2	Malaveppu	„	32.478
3	Vatta	„	239.021
4	Ambazham	„	3.526
5	Karingazha / Poopathiri / Ponpathiri	„	8.391
6	Karilavu /Uthi / Kalasu / Kalayam	„	6.705
7	Spathodia	„	3.847
	Total		296.124
Pulpwood			
1	Eucalyptus	MT	4558.311
2	Accacia	„	10995.094
3	Bamboo	„	5718.270
4	Reeds	„	5552.913
	Total		26824.588
Miscellaneous			
1	Timber	M ³	8008.516
2	Fire wood/ Billets	MT	5831.270
3	Sandal wood	kg	68644.600
4	Teak poles	MT	9354.813
5	Other poles	MT	459.600

3.2. Human resources

3.2.1- Staff strength

Staff strength of various cadres as on 31.03.2016 is given in table 3.5.

Table 3.5-Designation wise details of sanctioned strength and in position

Sl No.	Name of post	Sanctioned Strength	In Position
1	2	3	4
1	Principal Chief Conservator of Forests*	3	6
2	Addl. Principal Chief Conservator of Forests*	4	11
3	Chief Conservator of Forests	11	9
4	Conservator of Forests	13	2
5	Dy. Conservator of Forest(IFS Cadre)	35	30
6	Forest Tribunal	1	1
7	Joint Secretary (Law)	1	1
8	Sr. Finance Officer	1	1
9	Sr. Administrative Officer	1	1
10	Deputy Director (Statistics)	1	1
11	Deputy Director (Wildlife Education)	3	3
12	Asst. Conservator of Forests/DCF(NC)	101	96
13	Sr. Administrative Assistant	9	9
14	Administrative Assistant	12	11
15	Personal Assistant	3	3
16	Senior Superintendent	34	32
17	Range Forest Officer	205	193
18	Dy. Range Forest Officer	158	150
19	Public Relation Officer	1	0
20	Asst. Forest Publicity Officer	3	3
21	Junior Superintendent	71	68
22	Head Accountant	74	73
23	Research Assistant**	3	4
24	Wildlife Assistant	10	7
25	Senior Clerk	443	418
26	Clerk	444	433
27	Statistical Assistant Gr. II & I	34	33
28	Faircopy Superintendent	8	8
29	Sel.Gr Typist / Sr. Grade Typist	44	30
30	Typist Clerk	1	0
31	UD Typist	44	53
32	LD Typist	45	51
33	Confidential Assistant	39	33

Sl No.	Name of post	Sanctioned Strength	In Position
1	2	3	4
34	Legal Assistant	1	1
35	Section Officer	1	1
36	Forest Veterinary Officer	1	1
37	Veterinary Doctor	1	1
38	Asst. Forest Veterinary Officer	2	1
39	Documentation Officer	1	0
40	Asst. Director (Survey)	1	1
41	Survey Superintendent	2	2
42	Surveyor Gr.I	17	24
43	Surveyor Gr.II	49	16
44	Head Surveyor	2	2
45	Section Forest Officer	952	830
46	Beat Forest Officer	2618	2246
47	Sheristadar cum Secretary	1	1
48	Head Draftsman	2	2
49	Draftsman	45	10
50	CI of Police	2	0
51	SI of Police	4	1
52	Senior Civil Police Officer	22	1
53	Civil Police Officer	110	18
54	Librarian	1	1
55	Project Operator	1	0
56	Pharmacist	2	1
57	Hospital Attender	1	0
58	Nursing Assistant	1	0
59	Binder	2	2
60	PT Instructor	6	1
61	Record cum Store Keeper	3	0
62	Museum Assistant	1	0
63	Office Attendent	420	402
64	Peon cum Sweeper	1	1
65	Daffedar	1	0
66	Attender	18	16
67	Dark Room Attender	1	0
68	Driver	247	231
69	Photographer cum Artist	1	0
70	Gardner	4	1

Sl No.	Name of post	Sanctioned Strength	In Position
1	2	3	4
71	Traker cum Gardner	3	0
72	Gardner cum Marker	1	1
73	Cleaner	2	0
74	Watcher***	42	150
75	Muduvan Watcher	8	7
76	Night Watcher	25	21
77	RF Watcher	157	57
78	Depot Watcher	86	53
79	Tribal Watcher	700	619
80	Watcher cum Cook	6	3
81	Tapal Watcher	3	0
82	Rest House Watcher	1	0
83	Scavenger/Sanitary Worker	1	1
84	Cook/Asst. Cook	1	0
85	Boat Driver	12	7
86	Boat Zrang	1	0
87	Boat Watcher	6	1
88	Boat Cleaner/Cleaner	3	1
89	Lascar	4	0
90	Survey Lascar	11	2
91	Mahouts & Kavadi	26	21
92	Timber Supervisor	1	0
93	Pump Operator	1	0
94	Lab Assistant	1	0
95	Radio Mechanic	1	0
96	Helper	1	0
97	Bus Cleaner	1	1
98	Chowkeedar	1	0
99	Part Time Contingent Employees****	247	285
Total		7758	6819

* Ex –Cadre Posts.

** Statistical Assistant Gr. I post upgraded at Souhern Circle, Kollam.

*** Supernumerary posts.

**** Includes Casual sweepers also.

Training

Detailed information on training conducted during the year 2015-16 is given in table 3.6.

Table 3.6-Training details during 2015-16

Sl No.	Training	No. of participants
1	2	3
A)	Training within the State	
1	Forestry training centre(FTC), (O/o APCCF (IHRD)	110
2	Induction Training of BFOs at KFS, Arippa &Walayar	246
3	Induction Training of SFOs at KFS, Arippa	25
4	Mandatory training for Dy.Range forest officers at KFS, Arippa & Walayar	91
5	Mandatory training for Range forest officers at KFS, Walayar	14
6	Training for Wildlife assistant(Gr II) at KFS, Walayar	7
7	Training for forest drivers at KFS, Arippa & Walayar	102
8	GPS refresher course at KFS, Walayar	28
9	Training for forestry students at KFS, Arippa	29
10	IMG training	517
	Total	1169
B)	Trainings outside State	
1	Extention education institute(EEI) , Hyderabad	14
2	Central academy for State forest service (CASFOS), Coimbatore	8
3	CASFOS, Dehradun	4
4	CASFOS, Burnihat	9
5	Forest survey of India(FSI), Dehradun	12
6	Forest research institute(FRI), Dehradun	2
	Total	49
Grand Total		1218

CHAPTER- 4
INFRASTRUCTURE

Roads

The type wise details of roads maintained by the department as on 31.03.2016 are given in table 4.1.

Table 4.1-Details of roads

Sl No.	Type of road	Length (KM)
1	2	3
1	Black topped	450.418
2	Metalled	869.882
3	Cement concrete	20.652
4	Earthern road (Unsurfaced)	3388.754
	Total	4729.706
1	Motorable	3902.026
2	Non-motorable	827.680

Buildings

The item wise details of buildings under the department as on 31.03.2016 are given in table 4.2.

Table 4.2-Details of buildings

Sl No.	Item	In Possession(No.)
1	2	3
I	Office buildings	324
II	Rest house/Government cottages/IB	64
III	Quarters	
	a) Type VI	23
	b) Type V	21
	c) Type IV	66
	d) Type III	215
	e) Type II	648
	f) Type I	308
	g) Other quarters	106
IV	Dormitory	73
V	Community hall	40
VI	Forest stations	114
VII	Other buildings	1037
	Total	3039

Vehicles

Kerala forest department possesses 664 numbers of different types of vehicles. The details as on 31.03.2016 are given in table 4.3.

Table 4.3-Details of vehicles

Sl No.	Vehicles	No. of vehicles		Total number of vehicles
		In running condition	Not in running condition	
1	2	3	4	5
1	Bolero	117	5	122
2	Jeep	186	29	215
3	Invader	11	1	12
4	Motor cycle	98	48	146
5	Mini van-Tata ace magic	2	0	2
6	Toyota qualis	7	0	7
7	Maruthy gypsy	2	0	2
8	Mahindra thar	57	1	58
9	Ambassador car	13	3	16
10	Car	17	0	17
11	Tata winger	3	0	3
12	Tata spacio	1	0	1
13	Tata sumo	1	0	1
14	Maruthi xylo	3	0	3
15	Maruthi SX 4	8	0	8
16	Indigo car	12	1	13
17	Mini bus	9	0	9
18	Lorry	4	1	5
19	Mini lorry	3	1	4
20	Road roller	0	2	2
21	Boat	13	5	18
	Total	567	97	664

Arms & ammunition

Necessary arms & ammunition have been given to the Divisional forest officers, Range officers and forest station staff in vulnerable areas for effective protection of forests and wildlife. The details as on 31.03.2016 are as shown in table 4.4.

Table 4.4-Details of arms and ammunition

Sl No.	Circle	No. of rifles	No. of revolvers	No. of Ammunition (Cartridges & bullets)
1	2	3	4	5
1	Sothern Circle, Kollam	26	13	239
2	High range Circle, Kottayam	58	13	550
3	Central Circle, Thrissur	37	10	120
4	Eastern Circle, Palakkad	47	8	847
5	Northern Circle, Kannur	29	5	685
6	ABP, Thiruvananthapuram	13	6	1355
7	Field director(Project tiger), Kottayam	91	19	2156
8	Wildlife Circle, Palakkad	70	15	1597
9	Inspection & Evaluation, Kottayam	15	6	300
10	Inspection & Evaluation, Kozhikode	16	8	428
11	Estate office FHQ , TVM	10	0	4065
	Total	412	103	12342

Forest stations

Forest station system was introduced by the department in 1988 on police station model in the place of beat section system for effective forest protection and with a view to afford more collective strength and security to the forest protective staff.

Division wise number of forest stations as on 31.03.2016 is given below in table 4.5.

Table 4.5-Division wise number of forest stations

Sl No.	Division	No. of forest stations	Sl No.	Division	No. of forest stations
1	Punalur	1	13	Nilambur south	4
2	Konni	7	14	Mannarkkad	8
3	Ranni	9	15	Nemmara	3
4	Kottayam	6	16	Wayanad north	5
5	Kothamangalam	1	17	Wayanad south	1
6	Munnar	6	18	Periyar east	1
7	Marayoor	4	19	Periyar west	3
8	Thrissur	10	20	Munnar WL	4
9	Vazhachal	8	21	Silent valley	2
10	Chalakyudy	3	22	Peechi	1
11	Malayattoor	14	23	Wayanad WL	6
12	Nilambur north	7		Total	114

The details on forest stations in different ranges are given in table 4.6.

Table 4.6-Division / Range wise details of forest stations

Sl No.	Division	Range	Forest station	
1	2	3	4	
1	Punalur	Pathanapuram	1	Ambanar
2	Konni	Konni	2	Kumaramperoor (south)
			3	Kumaramperoor (north)
			4	Kokkathodu
		Naduvathumoozhy	5	Karippanthodu
			6	Padom
			Mannarappara	7
8	Mannarappara			
3	Ranni	Ranni	9	Karikkulam
			10	Kanamala
			11	Rajampara
		Vadasserikkara	12	Chittar
			13	Gurunathanmannu

Sl No.	Division	Range	Forest station	
1	2	3	4	
		Goodrikkal	14	Thannithodu
			15	Plappally
			16	Kochukoickal
			17	Pachakkanam
4	Kottayam	Nagarampara	18	Vazhathoppu
			19	Vairamony
		Ayyappancoil	20	Kanchiyar
		Erumeli	21	Murinjapuzha
			22	Vandanpathal
			23	Placherry
5	Kothamangalam	Thodupuzha	24	Veloor
6	Munnar	Munnar	25	Pettimudy
		Adimali	26	Machiplavu
			27	Panamkutty
		Neriyamangalam	28	Nagarampara
			29	Inchathotty
			30	Valara
7	Marayoor	Marayoor	31	Marayoor
			32	Nachivayal
		Kanthalloor	33	Kanthalloor
			34	Vannanthura
8	Thrissur	Vadakkancherry	35	Erumapetty
			36	Poongodu
			37	Mayannoor
		Machad	38	Akamala
			39	Elanad
			40	Vazhani
		Pattikkad	41	Pattikkad
			42	Ponganamkad
			43	Mannamangalam
			44	Vaniyampara
9	Vazhachal	Charpa	45	Kannamkuzhy
		Vazhachal	46	Vazhachal
			47	Mukkumpuzha

Sl No.	Division	Range	Forest station	
1	2	3	4	
		Kollathirumedu	48	Kollathirumedu
		Sholayar	49	Malakkappara
			50	Sholayar
		Athirappally	51	Athirappally
			52	Ezhattumugham
10	Chalakydy	Pariyaram	53	Konnakuzhy
			54	Chaippankuzhy
		Vellikulangara	55	Mupliyam
11	Malayattoor	Kodanadu	56	Perumthodu
			57	Erumukham
			58	Mekkappala
		Kalady	59	Karakkadu
			60	Kannimangalam
			61	Evergreen
		Thundathil	62	Bhothathankettu
			63	Karimpani
			64	Edamalayar
			65	Vadathuppara
		Kuttampuzha	66	Pooyamkutty
			67	Anakulam
		Edamalayar	68	Ennakal
69	Perumuzhy			
12	Nemmara	Kollengode	70	Thekkady
		Nelliampathy	71	Nelliampathy
		Alathur	72	Mangalam dam
13	Mannarkkad	Mannarkkad	73	Palakkayam
			74	Mannarkkad
			75	Thiruvizhamkunnu
		Attappady	76	Pudur
			77	Mukkali
		Agali	78	Ommala
			79	Sholayar
80	Singappara			
14	Nilambur (south)	Karulai	81	Padukka

Sl No.	Division	Range	Forest station	
1	2	3	4	
			82	Nedumkayam
		Kalikavu	83	Chakkikuzhi
			84	Karuvarakundu
15	Nilambur (north)	Edavanna	85	Akampadam
			86	Edacode
			87	Kodumpuzha
		Nilambur	88	Vaniyampuzha
			89	Kanjirapuzha
		Vazhikkadavu	90	Nellikuthu
91	Pothukal			
16	Wayanad (north)	Mananthavady	92	Makkiyad
		Begur	93	Thirunelly
			94	Thalapuzha
		Periya	95	Kunhome
			96	Varayal
17	Wayanad south	Chedleth	97	Irulam
18	Munnar WL (Eravikulam)	Eravikulam NP	98	Chattamunnar
		Chinnar WS	99	Kambakkallu
			100	Karimutti
		Shola NP	101	Kadavari
19	Silent Valley	Bhavani	102	Anavai
			103	Thudukki
20	Periyar East	Vallakkadavu	104	Gavi
21	Periyar West	Pamba	105	Sannidhanam
			106	Mukkuzhi
			107	Pachakkanam
22	Peechi	Peechi	108	Olakara
23	Wayanad WL	Kurichiat	109	Vandikkadavu
			110	Kuppady
		Sulthanbathery	111	Naikatty
		Muthanga	112	Muthanga
			113	Thottamoola
		Tholpetty	114	Tholpetty

Check posts

Division wise number of check posts as on 31.03.2016 is given below in table 4.7.

Table 4.7-Division wise number of check posts

Sl No.	Division	No. of check posts	Sl No.	Division	No. of check posts
1	Thiruvananthapuram	4	17	Mannarkkad	4
2	Thenmala	2	18	Nemmara	3
3	Punalur	1	19	Wayanad South	2
4	Konni	4	20	Wayanad North	2
5	Ranni	3	21	Kannur	1
6	Achencovil	1	22	Kasargod	3
7	Kottayam	4	23	Shenduruney	2
8	Kothamangalam	1	24	Thiruvananthapuram WL	1
9	Munnar	4	25	Periyar East	5
10	Marayoor	2	26	Periyar West	1
11	Vazhachal	2	27	Idukki	1
12	Chalakyudy	3	28	Munnar	5
13	Malayattoor	4	29	Parambikulam	3
14	Nilambur north	1	30	Wayanadu WL	5
15	Nilambur south	1	31	Peechi	1
16	Palakkad	1	Total		77

Range wise details of check posts are given in table 4.8.

Table 4.8-Division / Range wise number of check posts

Sl No.	Division	Range	Check post
1	2	3	4
Southern circle - Kollam			
1	Thiruvananthapuram	Paruthipally	1 Parassala
		Kulathupuzha	2 Venkolla
		Palode	3 Mankayam
			4 Anappara
2	Thenmala	Thenmala	5 Neduvannurkadavu
		Aryankavu	6 Kottavasal(Aryankavu)
3	Punalur	Pathanapuram	7 Karavoor

Sl No.	Division	Range	Check post	
1	2	3	4	
4	Achenkovil	Achenkovil	8	Kottavasal(Achenkovil)
5	Konni	Konni	9	Athumpumkulam
		Naduvathumuzhy	10	Njanaval
			11	Padom
		Mannarappara	12	Mullumala
6	Ranni	Gudrical	13	Kochandi
		Vadasserikkara	14	Vadasserikkara
		Ranni	15	Laha(Rajampara)
High range circle- Kottayam				
7	Kottayam	Kumili	16	Kumili
			17	Cumbummettu
		Erumeli	18	Pulluppara
			19	Vazhikadavu
8	Kothamangalam	Thodupuzha	20	Guruthikalam
9	Munnar	Neriyamangalam	21	Thalakkodu
		Adimali	22	Panamkuttu
		Devikulam	23	Bodimettu
			24	Palar
10	Marayoor	Marayoor	25	Chattamunnar
		Kanthalloor	26	Pius Nagar
Central circle - Thrissur				
11	Chalakydy	Pariyaram	27	Kappathodu
		Palappilly	28	Parakadavu
		Vellikulangara	29	Mattathoor
12	Vazhachal	Charpa	30	Vazhachal
		Sholayar	31	Malakkappara
13	Malayattoor	Kalady	32	Karakkad
			33	Kadappara
		Kuttampuzha	34	Thatttekadu
		Thundathil	35	Boothathankettu
Eastern circle - Palakkad				
14	Nenmara	Nellyampathy	36	Pothundi
		Kollengode	37	Gopalapuram
			38	Meenakshipuram
15	Palakkad	Walayar	39	Walayar
16	Mannarkkadu	Agali	40	Anakkatty
			41	Keralamedu
		Mannarkkadu	42	Anamooly
			43	Inchikunnu
17	Nilambur north	Vazhikkadavu	44	Anamari

Sl No.	Division	Range	Check post	
1	2	3	4	
18	Nilambur south	Karulai	45	Cherupuzha
Northern circle – Kannur				
19	Kannur	Kottiyoor	46	Iritty
20	Kasargode	Kanjangad	47	Kallar (Panathur)
		Kasargode	48	Thalappady
			49	Kottayadi
21	Wayanad (north)	Perya	50	Boys town
			51	Niravilpuzha
22	Wayanad (south)	Meppadi	52	Cholady
		Kalpetta	53	Lakkidy
ABP, Thiruvananthapuram				
23	Thiruvananthapuram WL	Peppara sanctuary	54	Kanithadam
24	Shenthurney	Shenthurney WLS	55	Kattilapara
			56	Rosemala
FDPT, Kottayam				
25	Periyar east	Thekkady	57	Thekkady
		Vallakkadavu	58	Pachakkanam
			59	Anathodu
			60	Vallakkadavu
		Periyar	61	Vellimala
26	Periyar west	Pamba	62	Pachakkanam
27	Munnar WL	Eravikulam NP	63	Rajamala
		Chinnar WLS	64	Chinnar
			65	Karimutti
		Shola NP	66	Top station
			67	Methappu
28	Idukki	Idukki WLS	68	Vanmavu
Wildlife, Palakkad				
29	Wayanadu WL	Muthanga	69	Muthanga
			70	Pazhoor
		Tholpetty	71	Tholpetty
			72	Bavali
		Kurichiat	73	Kuppadi(3 rd mile)
30	Parambikulam	Sungam	74	Anappadi
			75	Keerappadi
		Orukomban	76	Thuthanppara
31	Peechi	Chimmony	77	Echippara

CHAPTER- 5

FINANCE

Revenue and Expenditure

The Forest Revenue realised during the year 2015-16 was ₹290.205 crores. The total expenditure incurred during the year was ₹444.763 crores.

The forest contributes substantially to the non-tax revenue of the State. The revenue from forestry sector by way of sale of timber and other forest produces comes to ₹257.16 crores in 2015-16. Major portion of the forest revenue was from timber. During 2015-16, ₹240.896 crores was collected towards revenue from the sale of timber alone which accounted for 83.01% of the total forest revenue. The comparative position of revenue and expenditure for the year 2015-16 and 2014-15 is given in table 5.1

Table 5.1-The comparative position of revenue and expenditure

Year	Revenue (₹ in crores)	Expenditure (₹ in crores)		
		Plan	Non Plan	Total
1	2	3	4	5
2015-16	290.21	144.26	300.50	444.76
2014-15	300.40	143.81	312.26	456.07

Revenue from Timber & Other Forest Products is shown in Table 5.2

Table 5.2-Revenue from Timber and other Forest Products

Sl No.	Head of Account	(₹ in lakhs)
1	2	3
0406-01-101 Sale of Timber and other Forest produce.		
1	99 Timber	24089.66
2	98 Firewood and Charcoal	21.69
3	97 Receipts from Sale of Forest Produce Coming under the Kerala Private Forest (Vesting and Assignment) Act.	6.09
4	96 Receipts from Forest Development Tax	1466.48
5	95 Receipts under Kerala Forest Produce	89.81
6	94 Other Items	41.81
Total (101)		25715.55

Sl No.	Head of Account	(₹ in lakhs)
1	2	3
0406-01-800 Other Receipts		
1	99 Interests on Arrears of Forest Revenue	385.06
2	98 Receipts from Wild life department	190.35
3	97 Scheme for Provision of House Sites and houses to Landless Workers in Rural Area - Free Supply of Timber	0.00
4	96 Revenue Realised from the KFDC on the sale proceeds of residual growth	0.00
5	95 Other Items	1404.08
6	94 Livestock	21.93
7	93 Integrated Wasteland Development Programme	0.00
8	91 Receipts on account of Lapsed and Confiscated Deposits	4.26
9	90 Forest Land Lease rent	1304.79
Total (800)		3310.57
Grand Total		29026.12
	Refunds (0406-01-900-00)	5.60
	Net Revenue	29020.52

Forest Development Tax (FDT)

FDT is levied @ 5% on the sale proceeds of forest produce. After deducting the cost of collection of tax, balance amount was placed as additional budgetary source. During the year 2015-16 an amount of ₹1466.479 lakhs was collected as FDT.

Outstanding on Account of Forest Revenue

An amount of ₹315.725 crores is outstanding on account of forest revenue at the end of the year 2015-16.

Outlay and Expenditure

The outlay and expenditure during 2014-15 and 2015-16 is given in Table 5.3

Table 5.3-Outlay and Expenditure (₹ in crores)

Schemes	2014-15		2015-16	
	Outlay	Expenditure	Outlay	Expenditure
1	2	3	4	5
State sector	160.00	120.34	159.65	127.18
Central sector	45.54	22.69	38.88	17.08
EAP	0.78	0.78	0.00	0.00
Total (Plan)	206.32	143.81	198.53	144.26
Non Plan	322.59	312.26	348.03	300.50
Grand Total	528.91	456.07	546.56	444.76

The Plan expenditure under forestry sector during 2015-16 is ₹144.26 crores, which is 72.66% of the total plan outlay. Out of this, State sector accounted for ₹127.18 crores and ₹17.08 crores under Central Sector.

Developments under 12th Five Year Plan

The year 2015-16 is the fourth year of the 12th Five Year Plan. The target and achievement is given in Table 5.4

Table 5.4-Year Wise Target and achievement during XII five year Plan 2015-16 (₹ in Crores)

Year	Target	Achievement
1	2	3
2012-13	152.22	127.47
2013-14	170.25	116.68
2014-15	206.32	143.81
2015-16	198.53	144.26

During the 4th year of the XII Five Year Plan, ₹198.53 crores were invested for various development programmes implemented by forestry sector. Out of this, an expenditure of ₹144.26 crores has been incurred.

The financial targets and achievements for various departmental schemes for the years 2012-13, 2013-14, 2014-15 and 2015-16 are given in Table 5.5.

Table 5.5-Target and Achievement (Financial) (2012-13, 2013-14, 2014-15 & 2015-16)

Schemes	₹ in lakhs)					
	2012-13,2013-14 & 2014-15		2015-16		Progressive Total	
	Targets	Achievements	Targets	Achievements	Targets	Achievements
1	2	3	4	5	6	7
State Sector Schemes (A)						
Management of Natural Forests						
(a) Forest Protection (Survey of Forest Boundaries & Forest Protection)	1625.00	1041.13	2100.00	1732.38	3725.00	2773.51
(b) Survey of Forest Boundaries	300.00	295.62	0.00	0.00	300.00	295.62
(c) Forest Protection	5335.00	5250.47	1685.00	1671.86	7020.00	6922.33
(d) Regeneration of Denuded Forests	150.00	146.16	50.00	49.26	200.00	195.42
(e) Non-wood forest produce including promotion of medicinal plants	220.00	215.65	220.00	215.89	440.00	431.54
Improving Productivity of Plantations	2480.00	2452.24	1475.00	1175.71	3955.00	3627.95
Infrastructure Development						
Roads	900.00	852.25	300.00	291.96	1200.00	1144.21
Buildings	1300.00	1286.25	672.00	661.45	1972.00	1947.70
Bio-diversity Conservation and Protected Area Management	8338.07	7243.93	2595.13	2548.30	10933.20	9792.23
Eco-tourism	1587.01	1522.54	700.00	690.37	2287.00	2212.91
Human Resources Development	750.00	751.83	300.00	299.99	1050.00	1051.82
Resources Planning and Research	150.00	154.24	50.00	49.79	200.00	204.03

Schemes	(₹ in lakhs)					
	2012-13,2013-14 & 2014-15		2015-16		Progressive Total	
	Targets	Achievements	Targets	Achievements	Targets	Achievements
1	2	3	4	5	6	7
Extension Forestry	1650.00	1577.79	0.00	0.00	1650.00	1577.79
Extension Community Forestry& Agro Forestry	1300.00	1084.87	1100.000	1093.84	2400.00	2178.71
FM IS & GIS	350.00	332.71	150.00	80.48	500.00	413.17
Management of Non-wood Forest Products	368.00	339.77	0.00	0.00	368.00	339.77
Works with assistance under Rural Infrastructure Development Fund	4700.00	1856.53	2500.00	789.78	7200.00	2646.31
13th Finance Commission Award	3388.00	2671.13	0.00	0.00	3388.00	2671.13
Integrated Forest Management *	300.00	207.59	160.00	74.62	460.00	282.21
Measures to reduce Man Animal conflict	2700.00	2519.35	400.00	397.05	3100.00	2916.40
Zoological Park, Wildlife Protection and Research Centre, Puthur	3250.01	595.47	200.00	27.24	3450.01	622.71
Schemes under Kerala Perspective Plan	0.00	0.00	100.00	73.99	100.00	73.99
Development of Infrastructure Measures to Reduce Man Animal Conflict	0.00	0.00	500.00	492.12	500.00	492.12
Green India Mission	0.00	0.00	0.010	0.00	0.010	0.00
Total (A)	41141.09	32397.51	15257.14	12416.08	56398.23	44813.59

Schemes	(₹ in lakhs)					
	2012-13,2013-14 & 2014-15		2015-16		Progressive Total	
	Targets	Achievements	Targets	Achievements	Targets	Achievements
1	2	3	4	5	6	7
Break-up of Centrally Sponsored Schemes(CSS) - (B)						
100% CSS	5772.58	2728.25	1055.00	270.00	6827.58	2998.25
75% CSS (IFM) *	900.00	622.77	240.00	111.94	1140.00	734.70
50% CSS ** (Sanctuaries & National Parks)	4988.00	2971.34	1755.88	924.02	6743.88	3895.36
Integrated Development of Wildlife Habitats (Protection of Wildlife – Outside Protected areas – 60% CSS)	0.00	0.00	245.00	245.04	245.00	245.04
Project Elephant (100% scheme remodified as 60% CSS from 2015-16 onwards)	0.00	0.00	400.00	254.82	400.00	254.82
National Afforestation Programme (100% scheme remodified as 50% CSS from 2015-16 onwards)	0.00	0.00	900.00	204.50	900.00	204.50
Total CSS (B)	11660.58	6322.36	4595.88	2010.32	16256.46	8332.68
Biodiversity Conservation and Rural Livelihood Improvement Project (EAP)	77.56	77.56	0.00	0.00	77.56	77.56
Total Plan	52879.23	38797.43	19853.02	14426.40	72732.25	53223.83

*75% scheme remodified as 60% CSS from 2015-16 onwards

**50% CSS modified as 60% CSS from 2015-16 onwards

Outlay and Expenditure under Plan Schemes

During 2015-16, an expenditure of ₹14426.40 lakhs was incurred against the budget provision of ₹19853.02 lakhs. Details of budget head wise allotment and expenditure are shown in Table 5.6.

Table 5.6- Achievements on Plan Schemes (Financial) during 2015-16

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
1	2	3	4
A. State Sector Schemes			
I	Management of Natural Forests		
1	Forest Protection (2406-01-101-81)	1685.000	1671.857
2	Forest Protection (Survey of Forest Boundaries & Forest Protection) (4406-01-101-99)	2100.000	1732.382
3	Regeneration of Denuded Forests (2406-01-101-94)	50.000	49.261
4	Non-wood forest produce including Promotion of medicinal plants (2406-01-101-80)	220.000	215.890
5	Schemes under Kerala Perspective Plan 2030 (2406-01-102-87)	100.000	73.990
Sub Total		4155.000	3743.380
II	Improving Productivity of Plantations		
1	Hard Wood Species (4406-01-105-87)(1)	491.000	493.240
2	Industrial Raw Materials (4406-01-105-87)(2)	690.000	682.470
3	Hardwood Species (Mechanisation of Forest Management Practices) One Time ACA (4406-01-105-87) (03)	294.000	0.000
Sub Total		1475.000	1175.710
III	Infrastructure Development		
1	Roads (4406-01-070-99)	300.000	291.962
2	Buildings (4406-01-070-97)	672.000	661.450
Sub Total		972.000	953.412
IV	Bio-diversity Conservation and PA Management		
1	Conservation of Biodiversity(2406-02-110-68)	350.000	352.767
2	Eco Development Programme (2406-02-110-56)	250.000	247.850
Sub Total		600.000	600.617
V	Eco-Tourism (4406-01-800-91)		690.373
VI	Human Resource Development		
1	Training (2406-01-003-97)	300.000	299.991
VII	Resource Planning & Research (2406-01-004-92)		49.791
VIII	Forest Management IS&GIS (2406-01-800-57)		80.466
IX	Extension Community Forestry & Agro Forestry (2406-01-800-55)		
1	(01) Extension Forestry	1092.650	1087.001
2	Forest Extension & publicity (2406-01-800-98)	7.350	6.842
Sub Total		1100.000	1093.843

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
1	2	3	4
X	Works with assistance from RIDF (4406-01-800-90)	2500.00	789.783
XI	Development of Infrastructure Measures to Reduce Man Animal Conflict (4406-01-800-85) (ACA)	500.000	492.120
XII	Measures to reduce Man Animal Conflict (2406-01-800-56)	400.00	397.050
XIII	Zoological Park, Wildlife Protection and Research Centre, Puthur (2406-02-110-48)	200.000	27.243
XIV	Green India Mission (2406-02-110-48)	0.010	0.000
B. 50% CSS modified as 60% CSS			
1	Neyyar Game Sanctuary (2406-02-110-97)	200.000	127.008
2	Wayanad Game Sanctuary (2406-02-110-96)	280.000	217.630
3	Development of National Park at Eravikulam (2406-02-110-94)	260.000	219.400
4	Development of National Park Biosphere Research at Silent Valley (2406-02-110-91)	380.000	249.180
5	Wildlife Sanctuary – Idukki (2406-02-110-90)	120.000	107.200
6	Wildlife Sanctuary – Peechi, Vazhani (2406-02-110-89)	120.000	97.250
7	Wildlife Sanctuary – Peppara (2406-02-110-88)	80.000	73.715
8	Wildlife Sanctuary – Schendurney (2406-02-110-87)	80.000	76.420
9	Wildlife Sanctuary – Chimmoney (2406-02-110-86)	80.000	76.940
10	Wildlife Sanctuary – Aralam (2406-02-110-85)	180.000	130.170
11	Wildlife Sanctuary – Chinnar (2406-02-110-84)	160.000	96.830
12	Bird Sanctuary at Thattekkad (2406-02-110-83)	95.000	72.2000
13	Development of Anamudi National Park (2406-02-110-64)	100.000	57.280
14	Development of Mathikettan National Park (2406-02-110-63)	64.000	53.080
15	Development of Pambadum National Park (2406-02-110-62)	100.000	55.740
16	Mangalavanam Bird Sanctuary (2406-02-110-61)	30.000	29.997
17	Kurinjimala Sanctuary (2406-02-110-58)	40.000	31.930
18	Agasthyamala Lanscape Project (2406-02-110-57)	2.000	0.000
19	Chulannur Peacock Sanctuary (2406-02-110-54)	40.000	38.010
20	Malabar Wildlife Sanctuary (2406-02-110-53)	70.000	44.598
21	Kottiyoor Wildlife Sanctuary (2406-02-110-45)	90.010	71.502
22	Kadalundi – Vallikunnu Community (2406-02-110-44)	80.000	0.000

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
1	2	3	4
23	Project Tiger – Periyar (2406-02-110-42) (01)	700.000	571.530
24	Project Tiger – Parambikulam (2406-02-110-42) (02)	400.000	374.000
25	Integrated Development of Wildlife Habitats (Protection of Wildlife – Outside Protected areas – 60% CSS) (2406-02-110-52)	245.000	245.040
26	Project Elephant (2406-02-110-71) (100% Scheme remodified as 60% CSS)	400.000	254.820
27	Integrated Forest Protection Scheme (2406-01-800-54) (75% Scheme remodified as 60% CSS)	400.000	186.549
28	National Afforestation Programme (2406-01-102-89) (100% Scheme remodified as 50% CSS)	900.000	204.500
Sub Total		5696.010	3762.623
C. Centrally Sponsored Schemes having 100% Central Share			
1	Nilgiri Biosphere Reserve (2406-02-110-80)	200.000	0.000
2	Agasthyamala Biosphere Reserve (2406-02-110-66)	250.000	0.000
3	Wetland Conservation (2406-01-800-60)	125.000	0.000
4	Integrated Development of Wildlife Habitats to Wayanad Wildlife Sanctuary for voluntary relocation of settlements from PA (2406-02-110-49)	480.000	270.000
100% CSS Total (C)		1055.000	270.000
Grand Total		19853.02	14426.40

Outlay and Expenditure under Non-Plan Schemes

An expenditure of ₹30049.903 lakhs was incurred against the budget provision of ₹34802.800 lakhs during 2015-16. Details on budget head wise allotment and expenditure are shown in Table 5.7.

Table 5.7-Achievements on Non-plan Schemes (Financial) during 2015-16.

Sl No.	Scheme & Head of Account	2015-2016 (₹ in Lakhs)	
		Outlay	Expenditure
1	2	3	4
I	Direction & Administration (2406-01-001)		
1	Office of the Chief Conservator of Forests (2406-01-001-99)	1455.000	1286.748
2	Office of the Conservator of Forests (2406-01-001-98)- Circle Office	662.73	457.348
3	Working Plan & Research Circle (2406-01-001-97)	63.250	48.471

Sl No.	Scheme & Head of Account	2015-2016 (₹ in Lakhs)	
		Outlay	Expenditure
1	2	3	4
4	Vigilance & Evaluation Wing (2406-01-001-96)	1475.620	1155.013
5	District Offices (2406-01-001-95)	10544.240	9156.238
6	Statistical Cell (2406-01-001-94)	29.340	2.797
7	Timber Sales Division (2406-01-001-93)	605.510	515.812
8	FD Fund Collection of add. tax on sales of Forest Produce (2406-01-001-92)	0.010	0.000
Sub Total		14835.700	12622.427
II	Statistics (2406-01-013)		
1	Planning & Statistical Cell (2406-01-013-99)	156.610	130.101
Sub Total		156.610	130.101
III	Communication & Buildings (2406-01-070)		
1	Roads & Bridges (2406-01-070-99)	50.000	42.578
2	Buildings (2406-01-070-98)	90.510	84.6555
Sub Total		140.510	127.233
IV	Forest Conservation Development & Regeneration (2406-01-101)		
1	Forest Consolidation & Acquisition of Private Forests(2406-01-101-99)	3356.210	2806.107
2	Working Plans, Evaluation Survey, etc. (2406-01-101-98)	2.500	1.999
3	Silvicultural Works (2406-01-101-97)	8.000	7.851
4	Fire Protection Work (2406-01-101-96)	20.560	12.188
5	Compensatory Afforestation (2406-01-101-92)	12.500	11.369
6	Amount met out of KFDF for Planting Softwood Trees (2406-01-101-91)	284.330	245.431
7	Transfer to the fund for TEAK under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules,1999 (2406-01-101-90)	967.240	992.983
8	Transfer to the fund for PULPWOOD under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules,1999 (2406-01-101-89)	1011.010	1046.591
9	Priority Scheme Under 13 th Finance Commission Award(2406-01-101-84)	127.000	126.311
10	Forest Protection (2406-01-101-81)	4030.950	3143.591
11	Priority Scheme Under 14 th Finance Commission Award(2406-01-101-79)	0.010	0.000
Sub Total		9820.310	8394.421

Sl No.	Scheme & Head of Account	2015-2016 (₹ in Lakhs)	
		Outlay	Expenditure
1	2	3	4
V	Social & Farm Forestry (2406-01-102)		
1	Plantation of fast growing species (2406-01-102-99)	322.900	244.534
2	Ecology Development World Bank Assisted Social Forestry (2406-01-102-98)	2352.200	1862.219
3	Ecology Development World Bank Assisted Social Forestry, Phase-II (2406-01-102-92)	133.250	107.700
Sub Total		2808.350	2214.453
VI	Forest Produces (2406-01-105)		
1	Timber & Other Produces removed by Govt. Agencies (2406-01-105-99)	2548.500	2431.560
2	Firewood & Charcoal removed by Govt. Agencies (2406-01-105-98)	9.500	5.387
3	Other Produce removed by Govt. Agencies (2406-01-105-97)	0.080	0.030
4	Timber & Other Produces removed by Consumers (2406-01-105-96)	0.070	0.000
5	Confiscated Forest Produce Drift wood, etc. (2406-01-105-95)	1.100	0.350
6	Livestock (2406-01-105-94)	493.070	463.655
7	Miscellaneous Advance Suspense (2406-01-105-93)	4.000	3.980
8	Teakwood (2406-01-105-92)	570.690	739.877
9	Softwood (2406-01-105-91)	69.330	96.427
Sub Total		3696.340	3741.266
VII	Education & Training (2406-01-003)		
1	Training (2406-01-003-99)	379.060	294.383
Sub Total		379.060	294.383
VIII	Forest Research (2406-01-004)		
1	Payment out of the KFDF for Forest Research (2406-01-004-95)	112.320	81.968
2	Forest Research & Training (2406-01-004-99)	53.290	39.204
Sub Total		165.610	121.172
IX	Survey and Utilization of Forest Resources (2406-01-005)		
1	Forest Resources Survey (2406-01-005-99)	70.000	35.840
2	Survey of Forest Boundaries (2406-01-005-98)	206.170	138.400
Sub Total		276.170	174.240
X	Other Expenditure (2406-01-800)		

Sl No.	Scheme & Head of Account	2015-2016 (₹ in Lakhs)	
		Outlay	Expenditure
1	2	3	4
1	Forest Publicity(2406-01-800-98)	52.000	42.053
2	Intensification of Forest Management (2406-01-800-93)	147.050	106.224
3	Relief to Victims Affected by the attack of Wild Animals (2406-01-800-92)	371.910	361.450
4	Rewards to Informants (2406-01-800-91)	0.300	0.050
5	Subsidy to KFDC (2406-01-800-72)	0.010	0.000
6	Forest Protection(2406-01-800-95)	48.070	11.078
Sub Total		619.340	520.855
XI	Wildlife Preservation (2406-02-110)		
1	Wildlife Preservation (2406-02-110-99)	1252.460	1108.047
2	Periyar Tiger Reserve Project (2406-02-110-93)	185.630	182.423
3	Conservation of Bio-diversity (2406-02-110-68)	375.200	355.807
4	Eco-Development Global Environmental Facilities (2406-02-110-69)	78.500	63.076
Sub Total		1891.790	1709.352
XII	LAC ADS (4406-01-101)		
1	Projects under Legislative Assembly Constituency Asset Development Scheme (4406-01-101-97)	13.000	0.000
Sub Total		13.000	0.000
XIII	EFL (4406-01-102)		
1	Acquisition Lcharges of Land notified as EFL under Kerala Forest (Vesting & Management of EFL) Act 2003 (4406-01-102-96)	0.010	0.000
Sub Total		0.010	0.000
Grand Total		34802.800	30049.903

Note: - Since the reconciliation process during 2015-16 was not completed, figures given in the tables 5.6 and 5.7 were the figures reported in the Plan and Non-plan Progress Reports as on 31.3.2016, respectively.

Funds received directly from Government of India:-The scheme-wise funds received directly from Government of India and the expenditure incurred during 2015-16 is given in Table 5.8.

Table 5.8-Expenditure on funds received directly from Govt. of India

Scheme	Amount Released (₹ in lakhs)			Expenditure Incurred (₹ in Lakhs)		
	Till 31 st March 2015	During 2015-16	Total	Till 31 st March 2015	During 2015-16	Total
1	2	3	4	5	6	7
CAMPA	765.58	0	765.58	524.46	97.57	622.03

Table 5.9- Work done for other Government Departments and expenditure incurred during 2015-16.

S1 No.	Source	Beneficiary Circle/ Division	Purpose	Amount Received (₹ in Lakhs)	Expenditure (₹ in Lakhs)
1	2	3	4	5	6
1	Petronet LNG Ltd.	SF Eranakulam	Mangrove Afforestation	30.000	20.357
			Tree Afforestation	3.440	2.217
2	Tourism department	EC Palakkad	Anangamala Eco-tourism project	20.000	20.000

CHAPTER – 6
FOREST OFFENCES

Cases booked: Abstract of number of cases booked under various acts is given in table 6.1.

Table 6.1-Abstract of number of cases booked

Cases	Upto 2015	During 2016	Total upto 2016
1	2	3	4
Under KF* Act	35838	499	36337
Under WLP** Act	2460	250	2710
61 A cases	1935	56	1991
Other Acts	4349	119	4468
Total	44582	924	45506

*KF Act-Kerala forest Act, ** WLP Act-Wildlife protection Act

Cases disposed: Circle wise number of cases disposed upto 2016 is given in table 6.2.

Table 6.2-Circle wise number of cases disposed

S1 No.	Circle	Disposed upto 2015	Disposed during 2016	Disposed upto 2016
1	2	3	4	5
1	Southern circle, Kollam	1457	67	1524
2	High range Circle, Kottayam	3276	53	3329
3	Central circle, Thrissur	1395	11	1406
4	Eastern circle, Palakkad	5945	41	5986
5	Northern circle, Kannur	1783	13	1796
6	ABP, Thiruvananthapuram	48	0	48
7	FDPT, Kottayam	252	11	263
8	WL, Palakkad	426	3	429
	Total	14582	199	14781

Cases charged in the court: Circle wise cases charged in the court upto 2016 are given in table 6.3.

Table 6.3-Circle wise cases charged in the court upto 2016

Sl No.	Circle	No. of cases upto 2015	No. of cases during 2016	No. of cases upto 2016
1	2	3	4	5
1	Southern circle, Kollam	1012	70	1082
2	High range circle, Kottayam	12340	87	12427
3	Central circle, Thrissur	1354	29	1383
4	Eastern circle, Palakkad	3364	22	3386
5	Northern circle, Kannur	2018	30	2048
6	ABP, Thiruvananthapuram	142	2	144
7	FDPT, Kottayam	637	7	644
8	WL, Palakkad	398	2	400
	Total	21265	249	21514

Cases pending: Circle wise cases pending with department upto 2016 are given in table 6.4

Table 6.4-Circle wise cases pending with department upto 2016

Sl No.	Circle	No. of cases upto 2015	No. of cases during 2016	No. of cases upto 2016
1	2	3	4	5
1	Southern circle, Kollam	1264	41	1305
2	High range circle, Kottayam	2812	125	2937
3	Central circle, Thrissur	903	89	992
4	Eastern circle, Palakkad	2110	97	2207
5	Northern circle, Kannur	989	92	1081
6	ABP, Thiruvananthapuram	61	2	63
7	FDPT, Kottayam	381	6	387
8	WL, Palakkad	215	24	239
	Total	8735	476	9211

Cases booked: Circle wise cases booked under various Acts upto 2016 are given in table 6.5

Table 6.5-Circle wise number of cases booked under various Acts

SI No.	Circle	No. of cases booked											
		Under KF Act upto 2015	KF Act during 2016	KF Act at the end of 2016	Under WLP Act upto 2015	WLP Act during 2016	WLP Act at the end of 2016	Other Acts upto 2015	Other Acts during 2016	Other Act at the end of 2016	No. of 61A cases upto 2015	61 A cases during 2016	61 A cases at the end of 2016
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	SC, Kollam	2972	108	3080	452	55	507	183	10	193	126	5	131
2	HRC, Kottayam	15011	129	15140	256	40	296	2610	77	2687	551	19	570
3	CC, Thrissur	2898	47	2945	490	66	556	154	7	161	110	9	119
4	EC, Palakkad	9663	116	9779	495	27	522	846	12	858	415	5	420
5	NC, Kannur	3202	59	3261	452	47	499	464	11	475	672	18	690
6	ABP, Thiruvananthapuram	194	3	197	52	1	53	3	0	3	2	0	2
7	FDPT, Kottayam	1134	17	1151	91	5	96	25	2	27	20	0	20
8	WL, Palakkad	764	20	784	172	9	181	64	0	64	39	0	39
Total		35838	499	36337	2460	250	2710	4349	119	4468	1935	56	1991

CHAPTER- 7

WILDLIFE CONSERVATION

Wildlife Sanctuaries & National Parks

During the year 2015-16, Kerala has 3213.24KM² of forests under protected areas which includes 5 National Parks, 17 Wildlife Sanctuaries (includes 2 Tiger Reserves, 2 Bird Sanctuaries, 1 Peafowl Sanctuary) and one Community Reserve which forms 28% of the total forest area. The list of wildlife Sanctuaries, National Parks, and Community Reserve & Biosphere Reserve are given in table 7.1.

Table 7.1-List of Wildlife Sanctuaries, National Parks, Community Reserves and Biosphere Reserves

Sl No.	Name	Area (KM ²)	Year of formation
1	2	3	4
National Parks			
1	Eravikulam national park	97.000	1978
2	Silent valley national park *	237.520	1984
3	Anamudi shola national park	7.500	2003
4	Mathikettan shola national park	12.817	2003
5	Pambadum shola national park	1.318	2003
Wildlife Sanctuaries			
1	Periyar WLS (Tiger reserve) **	925.000	1950(1978)
2	Neyyar WLS	128.000	1958
3	Peechi - Vazhani wildlife sanctuary	125.000	1958
4	Parambikulam WLS (Tiger reserve) ***	643.660	1973(2009)
5	Wayanad WLS	344.440	1973
6	Idukki WLS	70.000	1976
7	Peppara WLS	53.000	1983
8	Thattekkad bird sanctuary	25.000	1983
9	Shenduruney WLS	171.000	1984
10	Chinnar WLS	90.440	1984
11	Chimmony WLS	85.000	1984
12	Aralam WLS	55.000	1984
13	Mangalavanam bird sanctury	0.0274	2004
14	Kurinjimala sanctuary	32.000	2006
15	Choolannur pea fowl sanctuary	3.420	2007
16	Malabar sanctuary ****	74.215	2009
17	Kottiyoor WLS	30.3798	2011
Total		3211.7372	
Community Reserve			
1	Kadalundi-Vallikunnu Community Reserve	1.500	2007
Biosphere Reserve			
1	Agasthyamala biosphere reserve	1828.00	2001
2	Nilgiri biosphere reserve	1455.40	1986

*Includes 148 KM² of buffer zone added during 2007.

** Includes 148 KM² of critical tiger core area from Goodrical range.

*** Includes core or critical tiger habitat (390.89 KM²) & buffer zone (252.77 KM²).

**** These area are under the administrative control of DFO, Kozhikode.

Status of management plans: Status on management plans as on 31.03.2016 is given in table 7.2.

Table 7.2- Status of management plan

Sl No.	Name	Area (KM²)	Status
1	2	3	4
1	Eravikulam national park	97.000	Valid upto 03.2022
2	Silent valley national park	237.520	Valid upto 03.2022
3	Anamudi shola national park	7.500	Valid upto 03.2020
4	Mathikettan shola national park	12.817	Valid upto 03.2020
5	Pambadum shola national park	1.318	Valid upto 03.2020
6	Periyar tiger reserve	925.000	Valid upto 03.2022
7	Neyyar WLS	128.000	Valid upto 03.2022
8	Peechi - Vazhani wildlife sanctuary	125.000	Valid upto 03.2022
9	Parambikulam TR (Tiger reserve)	643.660	Valid upto 03.2021
10	Wayanad WLS	344.440	Valid upto 03.2022
11	Idukki WLS	70.000	Valid upto 03.2022
12	Peppara WLS	53.000	Valid upto 03.2022
13	Thattekkad bird sanctuary	25.000	Valid upto 03.2022
14	Shenduruney WLS	171.000	Valid upto 03.2022
15	Chinnar WLS	90.440	Valid upto 03.2022
16	Chimmony WLS	85.000	Valid upto 03.2022
17	Aralam WLS	55.000	Valid upto 03.2022
18	Mangalavanam bird sanctury	0.027	Valid upto 03.2020
19	Kurinjimala sanctuary	32.000	Valid upto 03.2022
20	Choolannur pea fowl sanctuary	3.420	Valid upto 03.2022
21	Malabar sanctuary	74.215	Valid upto 03.2020
22	Kadalundi - Vallikunnu Community Reserve	1.500	Valid upto 03.2020
23	Kottiyoor wildlife sanctuary	30.380	Valid upto 03.2023
	Total	3213.2372	

Details of human-animal conflict incidents: A total of 6022 human animal conflict incidents have reported in Kerala during 2015-16. Details are given in table 7.3

Table 7.3-Details of human-animal conflict incidents

	Snake	Elephant	Wild boar	Wild gaur	Tiger	Leopard	Others	Total
1	2	3	4	5	6	7	8	9
Human death	88	12	4	0	0	0	0	104
Human injured	324	18	52	5	2	0	8	409
Cattle death	16	31	1	0	93	151	63	355
Crop damage & property loss	0	3024	1339	29	0	0	762	5154
Total	428	3085	1396	34	95	151	833	6022

Major Preventive Structures

Details of the major preventive structures constructed to mitigate human-wildlife conflict are given in table 7.4.

Table 7.4- Details of the major preventive structures constructed to mitigate human-wildlife conflict

Circle	Check Dam(No.)	Solar fencing (KM)	Elephant proof trench (KM)	Elephant proof wall (KM)	Stone pitched trench (KM)	Bio fence (KM)	Kayyala (KM)	Rail fence (KM)
1	2	3	4	5	6	7	8	9
Southern	64	166.16	75.09	6.44	0.00	2.45	155.02	0.00
HRC	48	70.11	0.41	0.31	0.00	24.22	13.09	0.00
Central	42	76.87	6.21	0.17	1.08	0.00	6.45	0.00
Eastern	51	248.58	20.12	5.67	1.18	0.00	49.29	0.00
Northern	53	583.79	192.79	9.24	0.12	12.00	15.48	0.00
ABP	13	66.45	4.79	0.00	0.00	0.00	1.64	0.00
FD(PT)	98	62.41	41.11	1.14	0.27	0.00	17.35	0.00
WL PKD	51	225.91	244.11	11.56	1.02	4.00	0.54	2.50
Total	420	1500.28	584.63	34.53	3.67	42.67	258.85	2.50

Compensation paid to victims of wildlife attack

Compensation paid to Victims of Attack by Wild Animals: - The Kerala Forest Department provides compensation to the victims of attack by wild animals vide 'Kerala Rules for Payment of compensation to victims of wild animals 1980'. During 2015-16, a total of ₹68168849 have been distributed to the victims. The circlewise details are given in table 7.5

Table 7.5- Compensation paid to victims of wildlife attack during 2015-16

Circle	Cattle death		Crop damage and		Human death		Human injured		Grand total	
	No of applicants	Amount Paid(in Rs)	No of applicants	Amount Paid(in Rs)	No of Applicants	Amount Paid(in Rs)	No of Applicants	Amount Paid(in Rs)	No of Applicants	Amount Paid(in Rs)
1	2	3	4	5	6	7	8	9	10	11
Southern	43	121500	161	1072567	16	1500000	39	547753	259	3241820
HRC	14	263000	114	5658357	11	2277040	47	1632111	186	9830508
Central	17	168900	163	1189066	23	2900000	41	1628116	244	5886082
Eastern	53	531050	387	8993623	35	3635000	44	1486301	519	14645974
Northern	126	2174949	3130	13402798	17	2700000	220	4482759	3493	22760506
ABP	0	0	107	629515	0	0	1	10000	108	639515
FD (PTR)	4	120000	92	499298	1	500000	3	41529	100	1160827
WL Plkd	94	2556200	993	6695406	1	425000	13	130399	1101	9807005
SF (NSC, Kalady)	4	41250	7	153000	0	0	1	2362	12	196612
Total	355	5976849	5154	38293630	104	13937040	409	9961330	6022	68168849

Rapid Response Team (RRT):

Government established Rapid Response Team to drive back the crop raiding wild elephants and to manage other problems relating to human-animal conflict. Details of Rapid Response Team during 2015-16 are given in table 7.6

Table 7.6- Details of Rapid Response Teams during 2015-16

Sl No.	Location	Head Quarter	Territorial / Wildlife division to which the team is attached	Rang Officer in charge of the team	Contact number	
					Mobile	Office
1	2	3	4	5	6	7
1	Sulthan Batheri	Sulthan Batheri	Wayanad WL	Assistant WLW, Sulthan Batheri	8547603486	0493

Sl No.	Location	Head Quarter	Territorial / Wildlife division to which the team is attached	Rang Officer in charge of the team	Contact number	
					Mobile	Office
1	2	3	4	5	6	7
						6221640
2	Kannur	Thaliparamba	Kannur	RO,Thalaiparamba	8547602678	0460 2206696
3	Palakkad	Olavakode	Palakkad	RO, Olavakkode	8547602100	0491 2552815
4	Nilambur	Nilambur	Nilambur North	RO, Nilambur	8547602200	04931 220005
5	Ranni	Ranni	Ranni	RO, Ranni	8547600927	0473 5223471
6	Kozhikode	Thamarassery	Kozhikode	RO, Thamarassery	8547602828	0495 2223720
7	Mannarkad	Mannarkad	Mannarkad	RO, Mannarkadu	8547602315	0492 4225566
8	Peppara	Paruthippally	Tvm WL	RO,Paruthippally	8547600970	0472 2854022
9	Kasargod	Kasargod	Kasargod	RO,Kasargode	8547602526	04994 225072
10	Kalpetta	Kalpetta	Wayanad South	RO, Kalpetta	8547602715	04936 205038
11	Malayattoor (SFPF)*	Malayattoor	Malayattoor	RO,Kodanad	8547604182	0484 2640774
12	Munnar	Munnar	Munnar	RO, Devikulam	8547601337	04865 264377
13	Punalur	Punalur	Punalur	RO,Anchal	8547600725	04752 276648
14	Peerumedu	Peerumedu	Periyar west	RO,Azhutha	8547603123	04869 233710

*-Under Malayattoor division one 'Special Forest Protection Force' is functioning and which carried out the functions of RRT.

Wildlife Census: A general Wildlife census has been conducted from 18th to 20th May 2011 in collaboration with Kerala Forest Research Institute (KFRI), Peechi, and Thrissur. Last general Wildlife census was conducted during 2002 and previously during 1993 and 1997. The estimated number of major species is given in table 7.7.

Table 7.7-Species wise number of animals

Sl No.	Species	No. of animals (1993)	No. of animals (1997)	No. of animals (2002)	No. of animals (2011)
1	2	3	4	5	6
1	Elephant	4286	5737	6965	7490
2	Gaur	4840	4151	14787	17860
3	Malabar giant squirrel	1384	63474	88919	..
4	Nilgiri langur	2987	24809	51517	..
5	Sambar deer	10665	13661	30414	32148
6	Spotted deer	6259	14881	38391	11398
7	Wild boar	40963	40425	60940	48034
8	Nilgiri tahr	1075	1008	902	..
9	Tiger	76	73	71±7	..

Tiger Census : Monitoring of tigers, co-predators, their prey and habitats was carried out in the forests of Kerala as part of the all India tiger estimation, as per the guidelines issued by National Tiger Conservation Authority (**NTCA**) from 16th to 23rd December 2013. The status report of tigers in India published by the Ministry of Environment, Forest and Climate Change (**MoEF&CC**) shows that the population of tigers in Kerala has increased to 136 from the population of 112 in 2010. The report states that the tiger population and occupancy has shown a substantial increase in Western Ghats landscape. A comparison of the population of tigers as per the past estimations is given in table 7.8.

Table7.8-Tiger Census**Estimated Tiger population in Kerala**

Year	1993	1997	2002	2006	2010	2014
Number	76	73	71	46	112	136

Elephant Census:

Estimation of population has been carried out exclusively for elephants under the Project Elephant (PE) scheme during 2005, 2007, 2010 and 2012. The process has been conducted simultaneously in all the South Indian States. The estimated number of elephants in the State during 2005, 2007, 2010 and 2012 are 5135, 6068, 6026 and 6177 respectively. The details of elephant population based on previous year's estimation exclusive for elephants are given below in table 7.9.

Table 7.9-Elephant Census

Sl No.	Item	No. of animals			
		2005	2007	2010	2012
1	2	3	4	5	6
1	No. of elephants	5135	6068	6026	6177
2	Male : Female	1 : 3.38	1 : 2.96	1 : 2.71	1 : 1.68

Wild elephant Census, 2010: Estimated population of elephants in different forest divisions of Kerala is given in table 7.10.

Table 7.10-Estimated population of elephants

Sl No.	Protected area / Territorial forest division	No. of elephants sighted in the sampled blocks	Estimated elephant density (No. / KM²)
1	2	3	4
Territorial division			
1	Thiruvananthapuram	88	0.4442
2	Thenmala	0	0.0000
3	Punalur	37	0.4395
4	Achenkovil	51	0.3178
5	Konni	43	0.2577
6	Ranni	186	0.4378
7	Kottayam	7	0.0749
8	Marayoor	0	0.0000
9	Mankulam	1	0.0794
10	Kothamangalam	4	0.0966
11	Malayattoor	284	1.2525
12	Munnar	9	0.0745
13	Vazhachal	100	0.7171
14	Chalakyudy	30	0.2699
15	Nenmara	4	0.0550
16	Palakkad	17	0.2764
17	Mannarkad	16	0.9385
18	Nilambur south	33	0.1924
19	Nilambur north	73	0.2536
20	Kozhikode	26	0.2494
21	Kannur	14	0.1220
22	Wayanad south	42	0.2521
23	Wayanad north	33	0.3116
Protected area			
1	ABP special division	0	0.0000
2	Thiruvananthapuram WL	39	0.2981
3	Shendurney WLS	107	0.8931
4	Periyar tiger reserve	211	0.5430
5	Munnar WL	29	0.1951
6	Idukki WL	83	1.2976
7	Peechi WL	38	0.5184

Sl No.	Protected area / Territorial forest division	No. of elephants sighted in the sampled blocks	Estimated elephant density (No. / KM²)
1	2	3	4
8	Parambikulam WLS	74	0.5440
9	Silent valley NP	1	0.0100
10	Aralam WLS	7	0.2461
11	Wayanad WLS	224	2.0718

Source: KFRI, Peechi

Captive elephants

Total number of captive elephants in the state is 622. Out of this, 592 elephants are privately owned and 30 elephants are owned by the department. The number private and department owned elephants implanted with microchip are 560 and 18 respectively. During the report year, nine deaths of captive elephants are reported in the State.

Details of captive elephants as on 31.03.2016 are shown in table 7.11.

Table 7.11- Details of captive elephants as on 31.03.2016

No. of elephants implanted with microchip		No. of elephants not implanted with microchip		No. of elephants dead	
Privately owned	Department owned	Privately owned	Department owned	Privately owned	Department owned
1	2	3	4	5	6
560	18	32	12	09	0

Elephants under possession of the department

Division wise number of elephants under possession as on 31.03.2016 is given in table 7.12.

Table 7.12-Division wise number of elephants under possession

Sl No.	Division	Number of elephants
1	2	3
1	Konni	7
2	Malayattoor	6
3	Thiruvananthapuram Wildlife	11
4	Wayanad Wildlife	6
	Total	30

Departmental elephants implanted with micro-chip

Details of departmental elephants implanted with micro-chip as on 31.03.2016 are given in table 7.13.

Table 7.13-Departmental elephants implanted with micro-chip

Division	Sl. No	Elephant	Micro-chip number	Age (Years)	Sex	Height (cm)
1	2	3	4	5	6	7
Konni	1	Soman	00065DB7BJ	71	Male	289
	2	Priyadarshini	00065EA5AF	30	Female	252
	3	Meena	000658C223	23	Female	258
	4	Surendran	00065D7F6D	15	Male	255
	5	Eva	00065DC7EQ	12	Female	237
Malayattoor	6	Sunitha	00065EAE98	44	Female	260
	7	Neelakandan	00065EA6E9	20	Male	276
	8	Asha	000658E6DD	12	Female	187
	9	Parvathy	00065EB28E	10	Female	182
	10	Anjana	00065EA472	10	Female	165
	11	Hariprasad	961001000003890	42	Male	
Thiruvananthapuram (WL)	12	Moni	00065EBD04	68	Male	280
	13	Jayasree	00065DA371	43	Female	244
	14	Ammu	00065D95E5	13	Female	225
	15	Minna	000658BFEF	14	Female	223
	16	Rajkumar	00065EB67D	39	Makhana	270
Wayanad (WL)	17	Surya	00065DAEE3	23	Male	177
	18	Kunju	000658CF9E	25	Male	285

Nilgiri tahr Census:-

The Nilgiri tahr is an endemic species showing restricted distribution in the mountain landscapes of Southern Western Ghats in the states of Kerala and Tamil nadu. Low population status, discontinuous distribution and human intervention in a highly fragile ecosystem brought Nilgiri tahr in the IUCN red data book under the status 'Endangered'. It is also listed in the schedule I of Wildlife (Protection) Act 1972. The estimated populations of Nilgiri tahr in Eravikulam National Park during last 10 years surveys are given table 7.14.

Table 7.14-Estimated population of Nilgiri tahr

Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Population	704	686	743	747	776	831	789	873	894	900

Elephant corridors: Details of elephant corridors are given in table 7.15.

Table 7.15- List of elephant corridors

Sl No.	Name of the corridor	Area	Forest type	Legal status	Major land use	Habitations in corridor	Villages dependent on corridors
1	2	3	4	5	6	7	8
1	Nilambur Kovilakom – New Amarambalam (Vazhikkadavu) Nilambur North Division	Length: 1 KM Width: 0.5 KM	Tropical Semi evergreen	RF	Forest & plantation	Nil	Vazhikkadavu & Karakkodu
2	Periya at Pakranthalam North Wayanad Division	Length: 0.5 KM Width: 0.2 KM	Tropical moist Deciduous	RF	Forest, Fallow land & Settlement	Pakranthalam & Panoth	Pakranthalam, Panoth & Niravil puzha
3	Tirunelli-Kudrakote North Wayanad Division	Length: 6 KM Width: 1-1.5 KM	Tropical moist Deciduous & Teak plantation	RF with small part as patta lands	Forest settlement, agriculture & plantation	Edayurvayal	Appapara, Vaduvakkalim, Edayurvayal, Pulayankolli, Thirunelli, Padaladi
4	Kottiyoor-Periya Kannur & North Wayanad Division	Length: 0.5 KM Width: 0.1 KM	Tropical Semi evergreen	RF	Forest settlement	Periya, Pokkottu-Chapparam, Chandanathodu & CRP Kunnu	Periya, Pokkottu-Chapparam, Chandanathodu, CRP Kunnu & Alatti

Wildlife animals rescued:

During the year 2015-16, many cases of man-animal conflicts were identified and further action was taken on scientific manner. Wild animals came into human habitations were caught as per regulations and released in their natural habitat. The wildlife wing gives permissions to such operations under strict guidelines. Details of Wildlife animals rescued are given in table 7.16.

Table 7.16- Details of Wildlife animals rescued

Sl No.	Name	No.
1	2	3
1	Python	1773
2	Indian Cobra	988

Sl No.	Name	No.
1	2	3
3	Other snakes	691
4	Monkey	269
5	Wild Boar	189
6	Viper	148
7	Barn Owl	132
8	Asian palm civet	103
9	Rat snake	102
10	Krait	97
11	King Cobra	64
12	Peacock	52
13	Other birds	45
14	Toddy cat	43
15	Wild porcupines	42
16	Sambar deer	40
17	Elephant	36
18	Jungle cat	32
19	Other animals	32
20	Indian Pangolin	28
21	Fox	25
22	Monitor lizard	23
23	Spotted deer	22
24	Sand boa	18
25	Malabar Giant Squirrel	14
26	Tortoise	13
27	Fish Owl	5
28	Eagle	5
29	Rock bee	5
30	Tiger	3
31	Bonnet Macaque	3
32	Crocodile	3
33	Wild Gaur	3
34	Leopard	3
35	Sea Turtle	3
36	Nilgiri Langur	2
37	Slender Loris	2
38	Brahminy Kite	1
39	Eagle Owl	1

Sl No.	Name	No.
1	2	3
40	Racquets tailed dragon	1
41	Grey Hornbill	1
42	Mouse deer	1
43	Serpant Owl	1
44	Spotted bellied Eagle	1
45	Black Eagle	1
46	Nagathan Snake	1
47	Lion tailed Macaque	1
48	Brown fish owl	1
49	Coucal	1
50	Jungle Fowl	1
51	Parrot	1
52	Beaver	1
53	Crane	1
54	Barking deer	1
55	Jaguar	1
56	Mongoose	1
57	Bat	1
	Total	5078

CHAPTER- 8

OTHER VITAL INFORMATION ON FORESTRY

Status of working plans

Working plan is the main instrument of forest management and is defined as a written scheme of management aiming at continuity of policy (normally for a period of 10 years) controlling the treatment of forest. The status of working plans as on 31.03.2016 is given in table 8.1.

Table 8.1-Status of working plan as on 31.03.2016

Sl No.	Division	Valid till	Status
1	2	3	4
Divisions where approved Working Plan or Management Plan is available			
1	Thenmala	31.03.2019	Working Plan is current
2	Achenkoil	31.03.2018	Working Plan is current
3	Punalur	31.03.2021	Working Plan is current
4	Munnar	31.03.2020	Working Plan is current
5	Marayoor	31.03.2020	Working Plan is current
6	Mankulam	31.03.2022	Working Plan is current.
7	Thrissur	31.03.2024	Working Plan is current
8	Palakkad	31.03.2019	Working Plan is current.
9	Nilambur(South)	31.03.2024	Working Plan is current.
10	Mannarkkad	31.03.2023	Working Plan is current
11	Kozhikkode	31.03.2021	Working Plan is current
12	Kannur	31.03.2023	Working Plan is current.
13	Wayanad(South)	31.03.2023	Working Plan is current
14	Kasargod	31.03.2023	Working Plan is current
15	Ranni	31.03.2024	Working Plan is current
16	Nilambur(North)	31.03.2025	Working Plan is current
17	Konni	31.03.2025	Working Plan is current
18	Nenmara	31.03.2025	Working Plan is current
19	Kottayam	31.03.2015	Field work in progress. Management plan for 2015-16 to 2016-17 is submitted to GoI on 05-10-2015 and the approval is pending. Certain observations from GoI is to be furnished and the same is forwarded to DFO, Kottayam on 11-11-2015
20	Chalakkudy	31.03.2015	Field work in progress. Management plan for 2015-16 to 2016-17 has been submitted to GoI and certain

Sl No.	Division	Valid till	Status
1	2	3	4
			observations were made. Hence the same is forwarded to DFO, Chalakkudy on 11-11-2015 for furnishing the details of observations and is pending there.
21	Vazhachal		Field work started. Management plan for 2 years,2014-15 and 2015-16 are approved by GoI
Divisions having no current working plans			
22	Thiruvananthapuram		Field work started. Management plan for 2016-17 is approved by GoI
23	Kothamangalam		Draft WP presented on 22-11-2014 and revised WP for 2015 to 2024 is expected to be sent to GoI shortly. Approved management plan was in force up to 31-03-2015
24	Malayattoor		Draft WP is approved on 18-02-2016
25	Wayanad(North)		Final WP from 2011-12 to 2020-21 was submitted to GoI for approval in October 2014. Observations made by GoI were incorporated in the final WP and resubmitted to GoI on 1-04-2016

Forest fire statistics

During the year 2015-2016 a total of 497 no. of incidents relating to forest fire have been reported amounting for a total destruction of 1955.110 Ha of forest area causing financial loss of ₹25420/-. Details of division wise forest fire incidents are given in table 8.2

Table 8.2- Details of division wise forest fire incidents during 2015-16

Sl No.	Name of division	No. of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
1	2	3	4	5
Territorial division				
1	Thiruvananthapuram	20	64.162	0
2	Thenmala	13	21.500	0
3	Punalur	17	30.500	0
4	Konni	15	63.300	0
5	Ranni	8	26.300	0
6	Kottayam	44	173.506	0

Sl No.	Name of division	No. of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
1	2	3	4	5
7	Marayoor	16	47.000	0
8	Kothamangalam	14	22.611	0
9	Munnar	8	34.000	0
10	Malayattoor	9	41.060	0
11	Vazhachal	2	26.500	0
12	Chalakyudy	29	141.200	0
13	Thrissur	73	267.962	4720
14	Nenmara	13	68.699	0
15	Palakkad	19	86.230	6400
16	Mannarkad	21	84.640	4500
17	Nilambur south	14	87.211	1500
18	Nilambur north	26	85.740	6800
19	Kozhikode	11	12.321	0
20	Kannur	4	14.000	0
21	Wayanad south	23	235.400	0
22	Wayanad north	16	35.809	0
23	Kasargod	9	27.200	0
Total		424	1696.851	23920
Wildlife division				
24	Periyar east	3	12.000	0
25	Periyar west	2	3.000	0
26	Munnar WL	2	20.000	0
27	Idukki WL	6	31.000	1500
28	Peechi WL	34	82.809	0
29	Silent valley NP	2	4.000	0
30	Wayanad WLS	24	105.450	0
Total		73	258.259	1500
Grand total		497	1955.110	25420

The forest fire incidents reported, area affected and financial loss for the last five years are given in table 8.3.

Table 8.3-Details of fire incidents

Year	Number of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
1	2	3	4
2011-2012	1017	5640.263	188525
2012-2013	564	2359.675	103606
2013-2014	525	2633.15	246300
2014-2015	339	1696.419	111175
2015-2016	502	1975.370	25420

Fire Protection measures

Details of fire protection measures taken up in forest areas during 2015-16 is given in table 8.4

Table 8.4-Details of fire protection measures taken up during 2015-16

Sl No.	Name of division	Length of fire line (KM)	No. of fire watchers engaged (man days)	Expenditure (₹)
1	2	3	4	5
Territorial division				
1	Thiruvananthapuram	620.800	3628	10370759
2	Thenmala	254.000	1950	4160000
3	Punalur	321.462	2597	6624206
4	Konni	288.550	2390	5726617
5	Ranni	454.355	2405	7962000
6	Achencovil	274.575	4074	4611296
7	Kottayam	216.480	3860	5797432
8	Marayoor	12.000	600	449660
9	Kothamangalam	165.700	1056	3302600
10	Munnar	335.645	1488	5949915
11	Mankulam	72.600	203	1390448
12	Malayattoor	118.900	2565	3128259
13	Vazhachal	119.200	901	2225709
14	Chalakyudy	76.986	1084	1705958
15	Thrissur	136.760	4413	4011377
16	Nenmara	195.400	4269	4969110
17	Palakkad	85.000	775	1058000
18	Mannarkad	160.200	7364	4511000

Sl No.	Name of division	Length of fire line (KM)	No. of fire watchers engaged (man days)	Expenditure (₹)
1	2	3	4	5
19	Nilambur south	140.490	1828	2209441
20	Nilambur north	88.050	2479	2669073
21	Kozhikode	87.550	5148	3275670
22	Kannur	220.750	4854	6068654
23	Wayanad south	246.850	7303	6549415
24	Wayanad north	224.500	2196	2347904
25	Kasargod	265.900	3035	6336209
Total		5182.703	72465	107410712
Wildlife division				
26	Thiruvananthapuram WL	299.871	8168	3162276
27	Shenduruney	66.000	1564	1896742
28	Periyar east	117.570	1634	3563088
29	Periyar west	209.607	8384	3538166
30	Munnar WL	368.100	8272	7867835
31	Idukki WL	176.000	1498	3175098
32	Peechi WL	212.300	6156	5915337
33	Parambikkulam TR	263.000	3390	5168000
34	Silent valley NP	199.850	3881	5978031
35	Wayanad WL	260.000	4964	6383000
36	Aralam	81.225	1716	1562432
Total		2253.523	49627	48210005
Grand total		7436.226	122092	155620717

Seedlings: Species wise number of seedlings raised during 2015-2016 is given in table 8.5.

Table 8.5-Species wise number of seedlings raised (in lakhs)

Sl No.	Division	Teak	Mahagony	Sandal wood	Cane	Accacia	Accacia mangium	Medicinal plants	Mangrove	Casurina	Other hardwood	Bamboo	Eucalyptus	Misc.	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Thiruvananthapuram	0.500	0	0	0	0	0	0.310	0	0	0.650	0	0	0	1.460
2	Thenmala	0.750	0	0	0	8.400	3.550	0	0	0	0	0	4.000	0	16.700
3	Punalur	0	0	0	0	0	0	0	0	0	0	0	0	0.570	0.570
4	Achencoil	0.270	0	0	0	0	0	0	0	0	0	0.450	0	0.500	1.220
5	Ranni	1.050	0	0	0	0	0	0	0	0	0	0	0	0	1.050
6	Konni	3.000	0	0	0	0	0	0	0	0	0	0	0	0	3.000
7	Munnar	0	0	0	0	0	0	0.045	0	0	0.175	0.345	0	0	0.565
8	Marayoor	0	0	0.075	0	0	0	0.075	0	0	0	0	0	0.120	0.269
9	Kottayam	1.575	0	0	0	0	0	0	0	0	0	0	0	0	1.575
10	Chalakydy	1.800	0	0	0	7.050	0	0	0	0	0	0	0	0.500	9.350
11	Vazhachal	0	0	0	0	0	0	0	0	0	0	0	0	0.100	0.100
12	Nilmbur north	2.817	1.000	0	0	0.450	0	0.016	0	0	0.002	0	0	0.014	4.300
13	Nilmbur south	0.145	0	0	0	0	0	0	0	0	0	0	0	0	0.145
14	Nenmara	0	0	0	0	0	0	0	0	0	0	0	0	0.550	0.550
15	Kannur	0.500	2.000	0	0.100	0.110	0	0.850	0	0	0.350	0	0	0.200	4.110
16	Kasargode	0	0	0.081	0	0	0	0	0.100	0	0	0	0	0	0.181
17	Wayanad south	0	0	0	0.110	0	0	0	0	0	0	0.400	0	0	0.510

Sl No.	Division	Teak	Mahagony	Sandal wood	Cane	Accacia	Accacia mangium	Medicinal plants	Mangrove	Casurina	Other hardwood	Bamboo	Eucalyptus	Misc.	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
18	S F, Tvpm	0.780	0.499	0.171	0	0	0	1.851	0	0.082	0.292	0	0	1.035	4.710
19	SF, Kollam	1.800	0.796	0.010	0	0	0	2.299	0	0	0.643	0.172	0	1.280	7.000
20	SF,Pathanamthitta	2.250	0.365	0.110	0	0	0	0.963	0	0	0.353	0.050	0	0.660	4.750
21	SF, Alapuzha	2.100	0.480	0.240	0	0	0	2.270	0	0.025	0.890	0	0	1.495	7.500
22	SF, Kottayam	2.400	1.111	0.004	0	0	0	1.738	0	0	0.315	0	0	1.433	7.001
23	SF, Idukki	0	0.551	0.006	0	0	0	0.886	0	0	0.318	0	0	1.333	3.093
24	SF, Ernakulam	0	0.477	0.075	0	0	0	1.655	0	0	0.136	0	0	1.057	3.400
25	SF, Thrissur	0	0.990	0	0	0	0	1.195	0	0	0.455	0	0	0.860	3.500
26	SF, Palakkad	0.900	1.323	0	0	0	0	0.758	0	0	0.253	0.091	0	0.427	3.750
27	SF, Malappuram	0	1.803	0	0	0	0	0.959	0	0.025	0.025	0	0	2.328	5.140
28	SF, Kozhikkode	0.135	0.677	0.105	0	0	0	1.148	0	0	0.594	0.068	0	0.805	3.532
29	SF, Wayanad	0	0.774	0	0	0	0	0.761	0	0	0.519	0.260	0	0.686	3.000
30	SF, Kannur	0.186	0.365	0.231	0	0	0	1.668	0	0	0.560	0.143	0	1.797	4.950
31	SF, Kasaragode	0	1.749	0.076	0	0	0	1.137	0.050	0	0.162	0.246	0	1.336	4.755
Total		22.958	14.960	1.184	0.210	16.010	3.550	20.582	0.150	0.132	6.692	2.224	4.000	19.086	111.735

Participatory forest management (PFM)

The State has adopted participatory forest management (PFM) as a strategy for conservation of bio-diversity and for the improvement of livelihood of forest dependent people by forming partnership institutions at grass root level since 1998. The institutions in territorial forest divisions are called vana samrakshana samithies (VSS). Those in Sanctuaries and National Parks are called eco-development committees (EDC). During the year 2015-16, there were 400 numbers of VSSs and 190 numbers of EDCs.

Detailed statistics on VSS/EDC are given in tables 8.6 to 8.9.

Table 8.6-Division wise number of VSS

Sl No.	Territorial division	No.of VSS
1	2	3
1	Thiruvananthapuram	20
2	Thenmala	11
3	Punalur	15
4	Konni	20
5	Ranni	34
6	Achencoil	6
7	Kottayam	13
8	Kothamangalam	10
9	Munnar	11
10	Marayoor	23
11	Mankulam	9
12	Malayattoor	17
13	Vazhachal	11
14	Chalakyudy	10
15	Thrissur	21
16	Palakkad	11
17	Mannarkad	11
18	Nilambur south	14
19	Nilambur north	30
20	Nemmara	17
21	North wayanad	17
22	South wayanad	18
23	Kozhikode	17
24	Kannur	20
25	Kasargode	14
	Total	400

Table 8.7-Division wise number of EDC

Sl No.	Wildlife division	No.of EDC
1	2	3
1	Parambikulam	7
2	Aralam	3
3	Silent Valley	7
4	Wayanad WL	15
5	Peechi	12
6	Thiruvananthapuram WL	31
7	Shendurney	9
8	Idukki	9
9	Munnar WL	22
10	Periyar East	35
11	Periyar West	40
Total		190

Table 8.8-Detailed statistics on VSS

Sl No.	Territorial division	No.of VSS	Forest area under VSS (Ha)	No. of families		
				SC	ST	Others
1	2	3	4	5	6	7
1	Thiruvananthapuram	20	5936.00	394	1045	855
2	Thenmala	11	3200.00	332	408	1010
3	Punalur	15	4730.00	335	361	512
4	Konni	20	6905.00	266	92	1333
5	Ranni	34	5675.00	541	1053	2406
6	Achencoil	6	2700.00	181	141	288
7	Kottayam	13	3552.85	219	313	1465
8	Kothamangalam	10	2510.80	96	169	813
9	Munnar	11	11340.00	53	1047	577
10	Marayoor	23	1436.00	659	907	747
11	Mankulam	9	874.90	16	431	51
12	Malayattoor	17	26957.00	208	820	629
13	Vazhachal	11	14230.00	170	321	573
14	Chalakyudy	10	4127.50	142	167	1598
15	Thrissur	21	3994.27	708	100	2455
16	Palakkad	11	2036.98	464	792	2009
17	Mannarkad	11	4976.00	75	537	512
18	Nilambur South	14	14099.00	199	328	1020
19	Nilambur North	30	22651.00	429	1203	4324
20	Nemmara	17	3407.00	667	302	2288

Sl No.	Territorial division	No. of VSS	Forest area under VSS (Ha)	No. of families		
				SC	ST	Others
1	2	3	4	5	6	7
21	North Wayanad	17	13740.00	12	1538	839
22	South Wayanad	18	4416.00	67	1036	2519
23	Kozhikode	17	3901.00	310	95	2215
24	Kannur	20	5256.06	177	1608	3724
25	Kasargod	14	2480.20	342	411	2036
Total		400	175132.56	7062	15225	36798

Table 8.9-Detailed statistics on EDC

Sl No.	Wildlife division	No. of EDC	Forest area under EDC (Ha)	No. of families		
				SC	ST	Others
1	2	3	4	5	6	7
1	Parambikulam	7	43.27	11	277	58
2	Aralam	3	1375.00	0	623	0
3	Silent Valley	7	868.80	23	184	197
4	Wayanad WL	15	0.00	18	716	70
5	Peechi	12	2800.00	178	171	487
6	Thiruvananthapuram WL	31	0.00	972	843	470
7	Shendurney	9	1950.00	207	0	346
8	Idukki	9	3850.00	0	276	473
9	Munnar WL	22	0.00	432	778	1251
10	Periyar east	35	0.00	0	0	0
11	Periyar west	40	0.00	1621	0	1736
Total		190	10887.07	3462	3868	5088

Vanasree ecoshops

During the year 2011-2012, vanasree ecoshops are started in various places to enable the vana samrakshana samithies to sale processed and semiprocessed non timber forest products collected by adivasis from forest areas. The profits from these outlets are being ploughed back to the MFP collectors through the VSS. The public will also be getting unadulterated and genuine forest products from these outlets. There are 37 vanasree ecoshops in the state under forest development agencies (FDA) including 2 mobile units. The details of these outlets as on 31.03.2016 are shown in table 8.10.

Table 8.10-Division wise location of ecoshops

Sl No.	Division	Name of vanasree unit
1	2	3
1	Thiruvananthapuram	Forest headquarters, Thiruvananthapuram
2	Thiruvananthapuram wildlife	Neyyar
3	Achenkoil	Manalar - Kumbhavurutty
4	Thenmala	Palaruvi
5	Punalur	Ayur
6	Konni	Konni
7	Ranni	Kochandi
8	SF, Alappuzha	Kommadi
9	Malayattoor	Kodanad
10	Malayattoor	Paneliporu
11	Kothamangalam	Thommankuthu
12	Chalakyudy	Chalakyudy
13	Vazhachal	Athirappally
14	Vazhachal	Vazhachal
15	Munnar wildlife	5 th Mile
16	Munnar wildlife	Alampetty
17	Munnar wildlife	Anamudi shola
18	Munnar wildlife	Lakkam
19	Munnar wildlife	Rajamala
20	Periyar east	Thekkady
21	Parambikulam, wildlife	Parambikulam
22	Parambikulam, wildlife	Malampuzha
23	Parambikulam, wildlife	Anappady
24	Silent valley national park	Mukkali
25	South wayanad	Soochippara
26	South wayanad	Pakkom-Kuruva
27	North wayanad	Mananthavady
28	North wayanad	Plamoola
29	North wayanad	Thrissileri
30	North wayanad	Kalindi

Sl No.	Division	Name of vanasree unit
1	2	3
31	Nilambur north	Aruvakode
32	Nilambur south	Nedumgayam (Manjeri)
33	Wayanad wildlife	Muthanga
34	Marayoor	Marayoor
35	Schenduruny wildlife	Schendurney
36	Thiruvananthapuram	Mobile vanasree unit
37	Malayattoor	Mobile vanasree unit

Eco-tourism destinations

The eco-tourism in forest areas is implemented through forest development agencies. There are 55 eco-tourism destinations functioning in the State.

District wise number of eco-tourism destinations in the State under forest department is given in table 8.11.

Table 8.11-District wise number of Eco-tourism destinations

Sl No.	District	No. of destination
1	2	3
1	Thiruvananthapuram	6
2	Kollam	3
3	Pathanamthitta	4
4	Alappuzha	0
5	Idukki	8
6	Kottayam	2
7	Ernakulam	3
8	Thrissur	2
9	Palakkad	6
10	Malappuram	3
11	Kozhikkode	5
12	Wayanad	9
13	Kannur	3
14	Kasaragode	1
Total		55

Table 8.12-Details on Kerala's ecotourism destinations

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
I	Thiruvananthapuram district					
1	1. Kottoor	Elephant ride, Sponsoring elephant feed, Bamboo rafting, Kattadikkunnu camp, Visit to interpretation centre, Rowing in the lake,	By bus- 35 KM from Trivandrum	A/c & Non-A/c cottages available, Kappukadu Erappupara-Mankode trekking, Kappukadu-Erappupara-Kizhakkumalappara trekking, Kappukadu-Kathirumudi trekking, Kappukadu-Kattadikkunnu trekking,	Entrance fee- Rs.20/- per Indian adult, Rs.10/- per Indian child, Rs.50/- per foreigner adult, Rs.25/- per foreigner child, Elephant ride- Rs.125/- per indian, Rs.250/- per foreigner, Sponsoring elephant feed- Rs.100/- per person, Visit to interpretation centre- Rs.5/- per indian, Rs.10/- per foreigner, Rowing in the lake- Rs.540/- per 4 indians, Rs.1100/- per 4 foreigners, Bamboo rafting Rs.50/- per indian, Rs.140/- per foreigner, Kappukadu-Erappupara-Kizhakkumalappara trekking- Rs.1000/- per 10 indians, Rs.1500/- per 10 foreigners, Kappukadu-Erappupara-Mankode trekking / Kappukadu-Kattadikkunnu trekking- Rs.2500/- per 10 indians, Rs.4000/- per 10 foreigners,	Deputy wadren, Kottoor- 8547602969

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
					Kappukadu-Kathirumudi trekking- Rs.3000/- per 10 indians, Rs.5000/- per 10 foreigners, Kattadikkunnu camp- Rs.6000/- per 5 indians, Rs.10000/- per 5 foreigners,	
2	2. Neyyar	Lion safari park, Crocodile farm, Neyyar dam, Trekking, Boating in Neyyar lake, Agasthya ecotourism centre, Kombai cruise, Kottamanpuram cruise, Rowing,	By bus- 30 KM from Trivandrum 11 KM from Kattakkada	IB available, Boat /Bus safari, Boat /Bus jumbo safari, Meenmutty trekking, Meenmutty camp, Kombai camp	Boat safari- Rs.250/- per Indian adult, Rs.100/- per Indian child, Rs.350/- per foreigner adult, Rs.200/- per foreigner child, Bus safari Rs.100/- per Indian adult, Rs.50/- per Indian child, Rs.200/- per foreigner adult, Rs.150/- per foreigner child, Agasthya ecotourism centre- Rs.10/- per Indian adult, Rs.5/- per Indian child, Rs.20/- per foreigner adult, Rs.10/- per foreigner child, Boat jumbo safari Rs.500/- per indian, Rs.750/- per foreigner, Bus jumbo safari Rs.230/- per indian, Rs.330/- per foreigner, Kombai cruise- Rs.250/- per indian, Rs.350/- per foreigner, Kottamanpuram cruise- Rs.75/- per indian, Rs.175/- per foreigner,	Asst.wildlife warden,Neyyar-8547602970

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
					<p>Rowing in the lake- Rs.540/- per 4 indians, Rs.1100/- per 4 foreigners,</p> <p>Rowing & trekking -Rs.1000/- per 4 indians, Rs.1760/- per 4 foreigners,</p> <p>Meenmutty trekking Rs.8000/- per 10 indians, Rs.10000/- per 10 foreigners,</p> <p>Meenmutty camp Rs.12000/- per 10 indians, Rs.17000/- per 10 foreigners,</p> <p>Kombai camp- Rs.11000/- per 10 indians, Rs.15000/- per 10 foreigners,</p>	
3	3. Peppara	Vazhuvanthol falls visit, Agasthyarkoodam trekking, Pandipath camp, Agasthyarkoodam view tower camp, Manchadikkanam Machan camp	By bus- 50 KM from Trivandrum	Temporary camp shed available	<p>Vazhuvanthol falls visit- Rs.50/- per Indian adult, Rs.25/- per Indian child, Rs.200/- per foreigner adult, Rs.150/- per foreigner child,</p> <p>Agasthyarkoodam trekking Rs.10000/- per 5 indian, Rs.15000/- per 5 foreigner,</p> <p>Pandipath camp Rs.7500/- per 5 indian, Rs.12000/- per 5 foreigner,</p> <p>Agasthyarkoodam view tower camp-Rs.4000/- per 2 indian, Rs.8000/- per 2 foreigner,</p> <p>Manchadikkanam machan</p>	Asst.wildlife warden, Peppara- 8547602951

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
					camp_ Rs.3000/- per 2 indian, Rs.6000/- per 2 foreigner,	
4	4. Ponmudi	Ponmudi hills and adjacent areas	By bus- 61 KM (Trivandrum-Nedumangad-Vithura-Ponmudi)	IB (Water authority), Golden peak (KTDC), Govt.guest house	Entry fee_ Rs.20/- per indian Adult, Rs.10/- per indian Child, Rs.200/- per foreigner Adult, Rs.150/- per foreigner Child,	Secretary, Ponmudi VSS- 8547600986
5	5. Mankayam	Mankayam water falls and adjacent areas	By bus- (Trivandrum-Nedumangad-Peringamala-Mangayam)	---	Bike / Auto- Rs.10/-, Car / Jeep- Rs.20/-, Bus- Rs.50/-,	Secretary, Mankayam VSS- 9400879969
6	6.Kallar	Meenmutty waterfalls in the evergreen forests in foot hills of Ponmudi	By bus- 29 KM (Trivandrum-Nedumangad-Vithura-Kallar)	---	Still camera- Rs.25/-, Trekk group- Rs.400/-,	Secretary, Kallar VSS- 8547600956
II	Kollam district					
7	1. Manalar Kumbhavurutty (Achencovil)	Evergreen forest, Grass land, Trekking Shola forest, Water falls, Pilgrimage, Achencovil temple of Lord Ayyappa	42 KM- (Punalur-Alimukku-Mullumala-Achencovil) 80 KM- (Punalur-Thenmala-Aryankavu-Shenkotta)	Waterfalls, Trekking, Nature camps, Sight seeing	Entry fee- Rs.25/- per Adult, Rs.10/- per Child (5 years to 15 years), Bike / Auto- Rs.20/-, Car / Jeep- Rs.30/-, Van / Mini bus- Rs.80/-, Bus- Rs.100/-,	DFO, Achencoil 9447979032 RFO, Achencoil 8547600500

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
8	2.Palaruvi (Thenmala)	Water falls, Bourdillons plot – First stumped teak plantation of Kerala in 1891	Punalur-36 KM Aryankavu-5 KM Shenkottai-20 KM Kollam-80 KM Trivandum-85 KM	Interrpretation centre cum ticket counter, Vanasree eco shop, Palaruvi canteen, Bathing ghats, Visit to remains of the historical structures,	Entry fee- Rs 25/- per indian adult, Rs 10/- per indian child, Rs 15/- per student, Rs 50/- per foreigner Bike / Auto- Rs.20/-, Bus- Rs.150/-, Car / Jeep- Rs.50/-, Van / Mini bus- Rs.100/-, Still camera- Rs.50/-, Movie camera- Rs.100/-, Falls view trekking- Rs 100/- Trekking foreigner- Rs 200/-	DFO,Thenmala, - 9447979037 RFO,Aryankavu -8547601067 Palaruvi ecotourism office -0475 2211200, 2211700
9	3.Shendurney	Jungle safari, Soft trekking, Hard trekking, Night trekking, Boating, Jungle camping	Kollam- 66 KM	Trekking,boating, Camping in forests,Guide service, food,Furnished rooms, Jeep safari, Natural spa in streams,	<u>Jungle safari</u> Wet'n' wild trail- Rs.400/- per Indian adult, Rs.250/- per Indian child, Rs.500/- per foreigner. Chenkurinji trail- Rs.800/- per Indian adult, Rs.500/- per Indian child, Rs.1000/- per foreigner. <u>Soft trekking</u> Sky walk / Myristica walk / Reservoir walk- Rs.500/- per person (Minimum Rs.2000/-) <u>Hard trekking</u> Wet'n wild trail / Edapalayam mount hike / Evergreen trail / LTM trail _ Rs.2000/- per person (Minimum Rs.4000/-	Wildlife warden Shendurney- 9447979081

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
					<p>Night trekking Rs.2000/- per person (Minimum Rs.5000/-)</p> <p>Boating</p> <p>Dawn 'n' dusk surfing (Special boating) Rs.300/- per indian, Rs.500/- per foreigner,</p> <p>Jungle camping</p> <p>Idimuzhangan nights / Woody rockwood / Kurunthotti top hut / Spa 'n' pallivasal - Rs.7500/- per 2 person</p> <p>Lake view 'n' kalamkundu- Rs.5000/- per 2 person or per room</p>	
III	Pathanamthitta district					
10	1. Konni elephant camp	Forest based ecotourism development with focus on captive elephants, Elephant museum, Elephant bathing, Paper unit,	Pathanamthitta -12 KM	Trekking, Rock climbing, Bird watching, Elephant ride, Elephant feeding, Vanasree shop, Childrens park	Rs.20/- per adult Rs. 5/- per child	04682342005 8547600610
11	2.Adavi	Bowl boat riding	Konni-11 KM	—	Rs.400/- for short trip journey Rs.800/- for long trip journey	04682342005 8547600610
12	3.Gavi	Being in the buffer zone of the famed periyar tiger reserve, the area is teeming with magnificent and	Kottayam railway station-120 KM Cochin airport-170 KM Thekkady-	<p>Day package (Spice garden visits, Paddle boat ride, etc),</p> <p>Stay package (Spice garden visits, Paddle boat ride, Stay in either green</p>	<p>Day package- Rs.1250/- per pax.</p> <p>Stay package- Rs.2500/- per pax for stay in green mansions eco lodge and Rs.3000/- per</p>	8289821306 8289821004 8547809270

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
		exclusive flora and fauna, Cardamom plantations, Waterfalls,	42 KM	mansions eco lodge or swiss cottage tents, etc),	pax for stay in swiss cottage tents.	
13	4. Kattathi-Chelikal	Jungle journey	Pathanamthitta town-10 KM	Kattathippara trekking, Ancient temple at Kurichi, Nellikkappara view point, Thalamanam waterfalls, Manneera fodder cultivated area	Rs. 3000/- for travelling 4 person	0468 2247645
IV	Kottayam district					
14	1.Chellarkovil	Panoramic view of Cumbum valley in Tamilnadu	Thekkady-17 KM	Telescope watch tower garden	Service charges Entrance- Rs.20/- Telescope- Rs.50/- Watch tower- Rs.30/-	8547601146
15	2.Kalvrimount	Panoramic view of Idukki arch dam reservoir and Idukki wildlife sanctuary	Thekkady-50 KM (Along Kumily-Kattappana-Thodupuzha State highway) Painavu-15KM Kuttikkanam-55KM	Resting huts Night staying huts Cafeteria Eco shop	Service charges Entrance- Rs.20/- Night staying huts- Rs.2000/-	8547601115
V	Idukki district					
16	1.Viripara (Kainagiri)	Kainagiri water falls,Semi evergreen and grassland vegetation,	<u>By road</u> Munnar-23KM Adimaly- 28KM Kottayam-	Information centre cum eco shop	Waterfall seeing- Rs.20/- person Kannadipara trekking- Rs.300/- person	Range officer-8547601560, Secretary-8547601564

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
			156KM Kumily-124KM Thiruvanantha puram-300KM Aluva railway station-153KM Nedumbassery airport-153KM			President-9495768214
17	2.Anakottapara	No.of dolmens (on the way from Marayoor to Kanthalloor)	Munnar-41 KM Udumalpet railway station-47 KM Coimbatore airport-110 KM	Eco shop	Entrance- Rs-10/-	04865-252988 8594070438
18	3.Rajeev gandhi nature park	A huge banyan tree,	Munnar-41 KM Udumalpet railway station-47 KM Coimbatore airport-110 KM	Park visit,Coffee shop & eco shop	Entrance- Rs-10/-	04865-252988 9446524706
19	4. Periyar tiger reserve	Gavi & Thekkady, Project tiger, Panoramic view of undulating mountains, multifarious cultural peculiarities of tribal communities, Best place to	Kumily-3 KM Cochin international airport-190 KM Kottayam railway station-114 KM	Jungle camping, Boating, Bamboo groves(lodging), Tribal dance, Trekking,	Entrance- Rs. 33/- per indian adult, Rs. 5/- per indian student, Rs. 450/- per foreigner, Rs. 155/- per foreigner student,	Thekkady range-04869 22947 Vallakkadavu range-04869 252515 Information centre-04869 224571

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
		observe wild animals at close quarters while cruising in the safety of a boat in Periyar lake,				
20	5. Eravikulam national park	Eravikulam national park, Nilgiri thar, Lakkam waterfalls, Cascade walk, Kurinji trail	Munnar-12 KM	Visit to rajamala, Eravikulam hut, Trekking, Birdwatching,	Entrance- Rs .23.5/- per Indian, Rs. 300/- per foreigner, Eravikulam national park visit_ Rs. 60/- per Indian, Rs. 60/- per foreigner, Lakkam waterfalls visit- Rs. 20/- per Indian, Rs. 20/- per foreigner, Cascade walk- Rs. 100/- per Indian, Rs. 200/- per foreigner, Kurinji trail- Rs. 200/- per Indian, Rs. 300/- per foreigner, Camping wild Rs. 3000/- for 2 Indians, Rs. 4000/- for 2 foreigners, Explore wild munnar- Rs.1200/- for 2 persons	Wildlife warden, Munnar- 9447979093
21	6. Shola national park	Camping wild, Log house, Stone house, Bison swamp, Ethnic hut	Mathikettan shola national park Munnar-34 KM Theni railway station-55 KM Cochin airport-140 KM	Amenity centre, Ethnic hut, Trekking,etc	Mathikettan shola national park Entrance fee- Rs .23.5/- per Indian, Rs. 300/- per foreigner Log house- Rs. 3000/- per 2 Indians, Rs. 4000/- per 2 foreigners, Trekking- Rs. 200/- per Indian,	Wildlife warden, Munnar- 9447979093

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
			<p><u>Anamudi shola national park</u> Marayoor-40 KM Aluva railway station-150 KM Cochin airport-160 KM</p> <p><u>Pambadum shola national park</u> Munnar-35 KM</p>		<p>Rs. 300/- per foreigner</p> <p><u>Anamudi shola national park Entrance fee-</u> Rs. 23.5/- per Indian, Rs. 300/- per foreigner</p> <p>Log house-Rs. 3000/- per 2 Indians, Rs. 4000/- per 2 foreigners,</p> <p>Stone house- Rs. 3000/- per 2 Indians, Rs. 4000/- per 2 foreigners,</p> <p><u>Pambadum shola national park Entrance fee-</u> Rs. 23.5/- per Indian, Rs. 300/- per foreigner</p> <p>Log house-4000/- per 2 Indians, Rs. 5000/- per 2 foreigners,</p> <p>Bison swamp- Rs. 200/- per Indian, Rs. 300/- per foreigner</p> <p>Ethnic hut-4000/- per 2 Indians, Rs. 5000/- per 2 foreigners,</p>	

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
22	7.Thommankuthu	Ancient caves , Thomankoothu waterfalls- (comprises a series of 12 falls over a distance of 5km). The height difference between first and the last one is about 500m.	Thodupuzha- 18 KM	Trekking, bathing ghats(during summer season), site seeing, Walking through lush evergreen forest, bird watching, Vanasree eco shop, Interpretation centre	Entry fee -Rs 20/- per Adult and Rs 10/- per child Trekking - Rs 1000/- per 5 persons Camera - Rs 10/- Video -Rs 100/-	VSS secretary- 8547601306 Range officer,Kaliyar- 0486-2247591, 8547601302
23	8.Chinnar sanctuary	Wildlife sanctuary, Camping wild, Viewing diversity in altitude, Flora and fauna, Marayoor sandal forests, Pambar water falls, Tribal hamlets,etc	Munnar-40 KM	Trekking, Sandal depot, Bird watching, Pambar log house, Koottar log house, Karakad tree nest, Night jar camping Churulipetty log house, Vashyappara mud house,	Entrance fee - Rs. 23.5/- per Indian, Rs. 300/- per foreigner Trekking(Koottar, Pambar, Churulipetty) - Rs. 200/- per Indian, Rs. 300/- per foreigner Trekking(Vashyappara) -Rs. 500/- per Indian, Rs. 1000/- per foreigner Pambar log house / Koottar log house / Churulipetty log house / Karakad tree nest- Rs. 3000/- per 2 Indians, Rs. 4000/- per 2 foreigners, Night jar camping -Rs. 350/- per person Vashyappara mud house- 4000/- per 2 Indians, Rs. 5000/- per 2 foreigners,	Wildlife warden, Munnar- 9447979093

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
VI	Ernakulam district					
24	1. Kodanad / Kaprikad	Mini Zoo, Elephant camp, Elephant kraal,	Eranakulam-40 KM	Trekking	Entry fee- Rs 20/- per indian adult, Rs 10/- per indian child, Rs 2/- per student from school, Rs 5/- per student from colleges, Rs 100/- per foreigner Parking fee Bike / Auto- Rs.10/-, Light motor vehicle- Rs.25/-, Tempo / Mini bus- Rs.40/-, Heavy vehicle- Rs.60/-,	NSC, Kalady-0484 2468680
25	2. Mulamkuzhy	Periyar river bank with riverine forest, Teak plantation, Mahaganithottam	Perumbavoor-20 KM Aluva railway station-35 KM Cochin international airport-20 KM	Parking ground, Cafeteria, Vanasree eco shop, Trek path, Danger line indicator,	Visitors- Rs 20/- Bike / Auto- Rs.10/-, Car- Rs.25/-, Traveller- Rs.30/-, Bus- Rs.60/-, Video- Rs.100/-,	DFO, Malayattoor-944797953
26	3. Paniyeli poru	Periyar river bank with riparian forest,	Perumbavoor-20 KM Aluva railway station-35 KM Cochin international airport-20 KM	Vanasree eco shop, Trek path, Parking ground, Cafeteria, Danger line indicator,	Visitors- Rs 10/- Bike / Auto_ Rs.5/-, Car- Rs.10/-, Bus- Rs.20/-, Video- Rs.100/-,	DFO, Malayattoor-944797953
VII	Thrissur district					

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
27	1. Athirapilly	Water falls, Beautiful Vazhachal rapids,	Chalakkudy railway station-30 KM Cochin international airport-55 KM	IB & Dormitory, Nature camps, Trekking,	Entry fee- Rs 30/- per indian adult, Rs 2/- per indian child, Rs 10/- per student, Rs 100/- per foreigner Parking fee Bike / Auto- Rs.10/-, Light motor vehicle- Rs.20/-, Medium vehicle- Rs.30/-, Heavy vehicle- Rs.50/-, Camera- Rs.20/-, Video Camera- Rs.200/-	DFO, Vazhachal-9447979055,0480-2701713
28	2.Chimmony	Zone of Western Ghats, Medicinal plants diversity,	Thrissur railway station-35 KM Cochin international airport-60 KM	Trekking, Tented accomodation, Tree top huts, Bird watching, Bamboo rafting, Myna eco retreat, Dormitory	Trekking- Rs.150/- person Tented accomodation- Rs.3125/- for 3 persons Tree top huts- Rs.8125/- for 3 person Bamboo rafting- Rs.150/- person Myna eco retreat- Rs.6875/- for 3 person Dormitory- Rs.150/- per bed per day	Asst.wildlife warden-8547603451 Chimmony range-04802766972
VIII	Palakkad district					
29	1. Silent valley	National park,Thick evergreen forest	Palakkad railway station-60 KM-(Palakkad to Mannarkad, on the way to Anakkatty, Mukkali stop.)	Visit to wet evergreen forests, Trekking, Nature education	By bus Entry fee- Rs 325/- per indian adult, Rs 280/- per indian student, Rs 600/- per foreigner. By jeep Entry fee- Rs 1715/- per 5 persons.	04924-253225 8589895652 9645586629

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
			Cochin international airport-165 KM		Parking Light motor vehicle- Rs.15/- Heavy vehicle- Rs.20/-	
30	2.Parambikulam tiger reserve	Tiger reserve, Bio diversity hot spot,	Palakkad-100 KM Coimbatore -100 KM Thrissur-120 KM	Vehicle safari, Trekking, Bird watching, Dam view point, Vanasree eco shop, Camping facilities- (Tented niche, Honey comb, Civet valley, Veetikunnu island nest, Tree top huts, Cheetal valley, Bison valley, Bear hut, etc) Paid nature camps.	Entrance fee- Rs 23/- per indian adult, Rs 300/- per foreigner, Light motor vehicle- Rs.75/-, Heavy vehicle- Rs.300/-, Camera- Rs.38/-, Video camera- Rs.300/-, Vehicle safari- Rs. 170/- per person <u>Tented niche(Capacity:21)</u> For Indians- s. 5500/--(week days), Rs. 6600/--(holidays), For foreigners- Rs. 8800/--(week days), Rs. 11000/--(holidays), <u>Honey comb accommodation(Capacity:18)</u> For Indians- Rs. 4500/--(week days), Rs. 5500/--(holidays), For foreigners Rs. 6600/--(week days), Rs. 7700/--(holidays), <u>Veetikunnu island nest(Capacity:5)</u>	Information centre, Anappady-9442201690 9442201691

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
					<p>For Indians-Rs. 8250/- (week days), Rs. 8800/- (holidays), For foreigners-Rs. 9350/- (week days), Rs. 11000/- (holidays),</p> <p><u>Tree top hut, Thunakadavu (Capacity: 2)</u> For indians-Rs. 4400/- (week days), Rs. 5500/- (holidays), For foreigners-Rs. 6600/- (week days), Rs. 8800/- (holidays),</p> <p><u>Tree top hut, Parambikulam (Capacity: 2)</u> For indians-Rs. 2750/- (week days), Rs. 3300/- (holidays), For foreigners-Rs. 3300/- (week days), Rs. 5500/- (holidays),</p> <p><u>Bear hut (Capacity: 2)</u> For Indians-Rs. 4400/- (week days), Rs. 5500/- (holidays), For foreigners-Rs. 6600/- (week days), Rs. 7700/- (holidays),</p>	
31	3. Minnampara	Natural beauty of grass land and view point in Nelliampathy	Nenmara-13 KM Minnampara to Grass land-6 KM (by Jeep)	—	Rs. 50/- per person Rs. 100/- per Jeep	Section forest officer- 8547602165, 8547602162

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
32	4.Dhoni	Water falls, Panoramic view	Dhoni- Palakkad railway station- 12 KM Ananganmala- Palakkad railway station- 45 KM	Bird watching , Trekking	Trekking -Rs. 100/- per person	DFO, Palakkad- 0491 2555156 Range forest officer, Olavakode- 8745602072
33	5.Ananganmala	Panoramic view	Meenvallam- Palakkad railway station- 34 KM	Trekking	Rs. 20/- per adult Rs. 10/- per child	DFO, Palakkad- 0491 2555156 Range forest officer, Ottappalam- 8745602087
34	6.Meenvallam	Water falls	Nearest airport- Nedumbassey, Kozhikode & Coimbatore	Trekking, Visit to wet evergreen forests	Rs. 20/- per adult Rs. 10/- per child	DFO, Palakkad- 0491 2555156 Range forest officer, Olavakode- 8745602072
IX	Malappuram district					
35	1. Nedumkayam	Oldest teak plantation, Dawsons grave yard,Rain forests, Indigenous tribal groups	Nilambur railway station- 13 KM	IB,Vanasree eco shop, Interpretation centre	Entry fee- Rs 20/- per indian adult, Rs 10/- per indian child Rs 100/- per foreigner Parking fee Bike- Rs.10/-, Auto Rs.20/-, Light motor vehicle- Rs.40/-, Heavy vehicle- Rs.100/- Still camera- Rs.40/- Video camera- Rs.200/-	Dy.RFO, Nedumkayam- 8547602263 Range office- 04931 270296 DFO, Nilambur south-04931 220392

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
36	2. Kozhippara	Natural waterfalls, Cool climate, Undulating mountain rows view	Kakkadampoyil - 2 KM Nilambur-25 KM Malappuram-60 KM Kozhikode-90 KM	Ticket cum information centre, Toilet facility, Pathway, Handrail.	Entry fee- Rs 20/- per indian adult, Rs 10/- per indian child Rs 40/- per foreigner Still camera- Rs.25/- Smart phone- Rs.10/- Movie camera- Rs.150/-	Range officer, Edavanna-8547602168
37	3. Adyanpara	Fully operated by DTPC, Malappuram				
X	Kozhikode district					
38	1. Kakkayam	Dam site and water falls	Kozhikode-56 KM	Waterfalls, Trekking in hillocks, Guides.	Rs 40/- per adult, Rs 20/- per student	DFO, Kozhikode-9447979073 8547602852
39	2.Peruvannamuzhy	Crocodile rescue center, Indian institute of spices research, Agricultural farm	Kozhikode-45 KM	Trekking, Guides	Rs 30/- for adult, Rs 15/- per student	DFO, Kozhikode-9447979073 8547602838

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
40	3.Thusharagiri	Water falls	Kozhikode-54 KM	Trekking, Nature education, Guides	Rs 30/- for adult, Rs 15/- per student	DFO, Kozhikode-9447979073 8547602818
41	4.Kakkavayal	Bio-diversity garden	Kozhikode-41 KM	Guides	Rs 30/- for adult, Rs 15/- per student	DFO, Kozhikode-9447979073 8547602792
42	5. Janakikkad	Low elevation ever green forest	Kozhikode-50 KM	Trekking, Guides	Rs 30/- for adult, Rs 15/- per student	DFO, Kozhikode-9447979073 8547602773
XI	Wayanad district					
43	1. Tholpetty	Wildlife sanctuary	Sultan bathery-65 KM Kozhikode railway station-129 KM	Trekking, Vehicle safari, Eco shop, Dormitory, Serambi	Entry - Rs 110/- per indian adult, Rs 40/- per indian student. Rs 300/- per foreigner. Light motor vehicle- Rs.75/ Still camera- Rs.38/- Video camera- Rs.225/- Serambi rent- Rs.1500/- per day Dormitory rent- Rs.188/- per head per bed	Asst.wildlife warden, Tholpetty range- 04935 250853
44	2. Muthanga	Wildlife sanctuary	Sultan bathery-14 KM Kozhikode railway station-110 KM	Vehicle safari, Eco shop, Dormitory, Serambi, Eco hut, Honey processing unit,	Entry fee- Rs 110/- per indian adult, Rs 40/- per indian student. Rs 300/- per foreigner. Still camera- Rs.38/- Video camera- Rs.225/- Serambi rent- Rs.1500/- per	Asst.wildlife warden, Muthanga range- 04936 271010, 271015

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
					day Dormitory rent- Rs.188/- per head per bed Eco hut- Rs.1500/- per day	
45	3. Thirunelli pakshipathalam	Temple, Pakshipathalam, Brahmagiri hills,	Sultan bathery- 71 KM	Rain forests, shola, Trekking	Rs. 1900/- for 5 indian adults Rs. 2500/- for 5 foreigners	Range officer, Begur- 8547602504 Section forest officer- 9495318823
46	4. Banasuramala	Trekking	Kalpetta- 25 KM	—	Entry fee- Rs 30/- per indian adult, Rs 15/- per indian student. Rs 60/- per foreigner. Camera- Rs.75/- for Indians, Rs 150/- for foreigners Trekking 10 members 3 hours- Rs.750/- for Indians, Rs 1500/- for foreigner Trekking 10 members 6 hours- Rs.1200/- for Indians, Rs 2000/- for foreigner	DFO, south wayanad- 04936 203428, 9447979075 Range officer- 8547602715
47	5. Pakkam-Kuruva	Island	Sultan bathery- 36 KM	Visit to riparian forest, Rafting.	Entry fee- Rs 80/- per adult, Rs 60/- per student Parking fee- Bike- Rs.15/-, Auto- Rs.30/-, Light motor vehicle- Rs.50/-, Heavy vehicle- Rs.80/-, Camera- Rs.45/-	DFO, south wayanad- 9447979075 Range officer- 8547602737

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
48	6.Soochippara	Waterfalls	Kalpetta-24 KM	—	-Rs 90/- per foreigner Trekking 10 members- Rs.750/- for Indians, Rs 400/- for students, Rs 1500/- for foreigner Parking fee- Bike- Rs.10/-, Four wheeler- Rs.30/-, Other- Rs.75/-	DFO, south wayanad-04936 203428, 9447979075 Range officer-8547602680
49	7.Chembra peak	Trekking	Kalpetta-25 KM	Trekking	Entry fee- Rs 20/- per indian adult, Rs 15/- per indian student.Rs 30/- per foreigner. Camera- Rs.40/- for Indians, Rs 80/- for foreigners Trekking 10 members- Rs.750/- for Indians, Rs 1500/- for foreigner	DFO, south wayanad-04936 203428, 9447979075 Range officer-8547602680
50	8.Muneeswaran kunnu-Makkimala	Stay cum trekking, Hill view	Thalapuzha-Mananthavady-Thalapuzha forest station-Makkimala-Muneeswarank unnu- 5 KM	Tents with bio-toilets	Stay cum trekking with food- Rs. 4000/- per 3 person Stay only- Rs. 2000/- per 3 person Trekking only- Rs. 1900/- per 5 indians , Rs. 2500/- per 5 foreigners	Range officer, Begur-8547602504 Dy. Range officer-87547602520 Secretary, Makkimala AVSS-8547602526
51	9. Meenmutti waterfalls, makkiyad	Waterfalls, Childrens park	Mananthavady 4 th mile-Korome spot-Korome village office road-2	Childrens park	Entry fee- Rs 50/- per adult, Rs 30/- per student. Camera- Rs. 40/- Light motor vehicle_ Rs.30/- Heavy vehicle- Rs.75/-	Range officer, Mananthavady-8547602480 Dy. Range officer-

Sl No.	Name of district and destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
1	2	3	4	5	6	7
			KM			87547602481 Secretary, Chalil VSS- 8547602483
XII Kannur district						
52	1. Aralam wildlife sanctuary	Bio diversity hot spot, Malabar pied hornbill, Diurnal primates and nocturnal species, Meenmutti waterfalls	Iritty town-20 Km Thalassery railway station-70 Km Kozhikode airport-150 KM	IB & Dormitory	Entry - Rs .15/- per indian adult, Rs. 7/- per indian student / Child Rs. 200/- per foreigner. Vehicle- Rs.100/- Still camera- Rs.38/- Movie camera Rs.225/-, Guide- Rs.300/- Dormitory rent- Rs.150/- per head ,Rs.45/- per student, IB rent- Rs.900/- per day	Wildlife division, Aralam- 0490 2493160 Aralam wildlife range- 0490 2413160
53	2.Paithalmala	Grass land with semi shola forest, Pond	Kannur railway station-60 KM Kozhikode airport-172 KM	Basic infra structure facilities	Entry fee- Rs .30/- per indian adult, Rs. 15/- per indian student Rs. 100/- per foreigner. Camera- Rs.40/-	8547602621
54	3. Kanhirakolly	Waterfalls of 20 to 25m height	Kannur Railway station-75 KM Karipoor Airport-152 KM	Safety barricade, Resting place	Entry fee- Rs 20/- per indian adult, Rs 10/- per indian student.Rs 200/- per foreigner. Camera- Rs.40/-	8547602628
XIII Kasaragod						
55	1.Ranipuram	Scebic beauty of grass land and trek path	Kanhangad-45 KM	DTPC Cottage, toilet	Entry fee- Rs 30/- per indian adult, Rs 15/- per indian student.Rs 100/- per foreigner	8547602600, 601,605

Income from eco-tourism activities

A. Territorial divisions: An amount of ₹145366088/- has been generated towards eco-tourism activities in various eco-tourism centres in 21 territorial divisions in the State. Division wise details are given below in table 8.13.1

Table 8.13.1.-Details of tourists and income generated from eco-tourism activities in territorial divisions of Kerala Forest Department during 2015-16

Sl No.	Division	Name of range	Location of eco-tourism centre	Native visitors (nos)	Foreigners (nos)	Students (nos)	Total visitors (nos)	Income generated (in ₹)
1	2	3	4	5	6	7	8	9
1	Thiruvananthapuram	Palode	Ponmudi	286651	2517	21120	310288	8009600
			Mankayam	29599	80	4772	34451	915630
		Paruthippally	Kallar	64524	1245	7592	73361	1957140
2	Thenmala	Aryankavu	Palaruvi	341974	485	7278	349737	8146940
3	Achencovil	Achencovil	Manalar-Kumbhavuruty	211384	0	0	211384	6643085
4	Punalur	Anchal	Kudukkathupara	4761	0	277	5038	132399
5	Ranni	Goodrical	Pachakkanam	31588	56	0	31644	951000
6	Konni	Konni	Konni	152251	355	21880	174486	5317140
		Adavi	Adavi	49571	144	6837	56552	6497500
		Naduvathumoozhy	Gavi & Kattathichelikal	1613	0	126	1739	2400700
7	Kothamangalam	Kaliyar	Thommankuthu	58713	363	5409	64485	1235610

Sl No.	Division	Name of range	Location of eco-tourism centre	Native visitors (nos)	Foreigners (nos)	Students (nos)	Total visitors (nos)	Income generated (in ₹)
1	2	3	4	5	6	7	8	9
8	Kottayam	Kumily	Chellarcovil	6347	318	911	7576	26737
		Ayyappancoil	Kalvari mount	65739	0	3825	69564	482555
9	Mankulam	Mankulam	Viripara-Kainagiri	11255	1062	530	12847	273700
10	Marayoor	Marayoor	Marayoor	7580	500	12876	20956	80800
		Kanthalloor	Kanthalloor	21472	726	4006	26204	221980
11	Vazhachal	Charpa	Athirappally	1044217	13410	277416	1335043	38497202
			Vazhachal	122655	578	20719	143952	4293220
12	Malayattoor	Kodanad	Paniyeli poru VSS	133872	0	0	133872	1519165
		Kalady	Mulamkuzhy VSS	864	0	0	864	20915
13	Mannarkkad	Agali	Siruvani	5371	44	287	5702	173564
14	Nilambur north	Edavanna	Conolly plot, Aruvacode	146011	258	34223	180492	4505273
			Kozhipara	56769	24	2788	59581	1203871
		Nilambur	Chandakkunnu	2108	0	506	2614	47630
15	Palakkad	Ottappalam	Ananganmala	32566	0	0	32566	368105
		Olavakkode	Meenvallam waterfalls	22897	0	0	22897	442570
			Dhoni waterfalls	13741	0	0	13741	275360

Sl No.	Division	Name of range	Location of eco-tourism centre	Native visitors (nos)	Foreigners (nos)	Students (nos)	Total visitors (nos)	Income generated (in ₹)
1	2	3	4	5	6	7	8	9
16	Nemmara	Kollengode	Minnampara	30270	0	0	30270	1513500
17	Kozhikode	Thamarassery	Thusharagiri	162144	1146	5809	169099	4896085
			Kakkad	3436	0	271	3707	104700
			Kakkvayal	16132	0	2000	18132	492180
		Peruvannamuzhi	Peruvannamuzhi	22888	0	10795	33683	807680
		Kuttiady	Janakikkad	8429	1	2849	11279	278245
18	Wayanad north	Begur	Brahmagiri trekking	637	139	63	839	320545
		Mananthavady	Chirapullu-Kurisumudi	9978	0	4901	14879	657510
19	Wayanad south	Kalpetta	Banasura -Meenmutty	136315	465	8904	145684	4854210
		Meppady	Soochippara	162243	1185	45377	208805	10318861
			Chembra	60454	898	1829	63181	5742555
		Chedalathu	Pakkom-Kuruva	259352	670	63622	323644	19370991
20	Kannur	Thaliparamba	Paithalmala	26052	92	5313	31457	850555
			Azhakapuri Waterfalls	19398	13	802	20213	404990
21	Kasargod	Kanhangad	Ranipuram	3526	0	554	4080	114090
Total				3847347	26774	586467	4460588	145366088

B. Wildlife divisions: An amount of ₹239235093/- has been generated towards eco-tourism activities in National Parks and Sanctuaries in wildlife divisions in the State. Division wise details are given below in table 8.13.2

Table 8.13.2-Details of tourists and income generated from Wildlife Sanctuaries and National Parks in wildlife divisions of Kerala Forest Department during 2015-16

Sl No.	Name of wildlife sanctuary/National park	District	Division	Native visitors (nos)	Foreigners (nos)	Students (nos)	Total visitors (nos)	Income generated (in₹)
1	2	3	4	5	6	7	8	9
1	ABP range , Kottoor	Thiruvananthapuram	TVPM WL Division	41798	4769	0	46567	2726755
2	Neyyar WLS			87767	2743	0	90510	10023905
3	Peppara WLS			13223	6	0	13229	3987930
4	Shenduruney WLS	Kollam	Shenduruney WLS	2642	7	35	2684	1194750
5	Periyar tiger reserve	Idukki & Pathanamthitta	Periyar east	649452	45360	77138	771950	93585570
6	Thattekad bird sanctuary	Eranakulam	Idukki WLS	68695	644	12456	81795	2528309
7	Idukki WLS	Idukki		4012	37	189	4238	905400
8	Malabar sanctuary	Kozhikode	Kozhikode	80378	22	2530	82930	2351555
9	Wayanad WLS	Wayanad	Wayanad WLS	110630	4285	22372	137287	12192331
10	Parambikulam tiger reserve	Palakkad	Parambikkulam	67320	629	6736	74685	46095000
11	Silent valley NP	Palakkad	Silent valley	19459	113	1567	21139	1123422
12	Eravikulam NP	Idukki	Munnar	376192	11050	83577	470819	53375577

Sl No.	Name of wildlife sanctuary/National park	District	Division	Native visitors (nos)	Foreigners (nos)	Students (nos)	Total visitors (nos)	Income generated (in₹)
1	2	3	4	5	6	7	8	9
13	Chinnar WLS		wildlife	11859	7134	0	18993	6236367
14	Pampadum shola NP			2015	65	0	2080	1290383
15	Chimmony WLS	Thrissur	Peechi	41378	34	5614	47026	1446555
16	Aralam WLS	Kannur	Aralam	4898	19	5389	10306	171284
	Total			1581718	76917	217603	1876238	239235093

Tribal co-operative societies

Details of tribal co-operative societies allowed for the collection of minor forest produce during 2015-16 are shown in table 8.14.

Table 8.14-Division / range wise details of tribal co-operative societies

Sl No.	Division	Range	Name of society
1	2	3	4
1	Thiruvananthapuram	Kulathupuzha	Pottamavu ST service co-op society, Reg. No. T618
2	Thenmala	Aryankavu	Aryankavu girijan co-op. society, Aryankavu
3	Achencoil	Kanayar	ST Co-op. society, Aryankavu No. Q 978
4	Punalur	Anchal	Vanchiyodu SC/ST society Ltd.No.Q1032, Venkolla.P.O, Madathara
5	Ranni	Ranni	Chollanavayal girijan service co-op. society Ltd. No. Q 759 Adichippuzha
6		Vadasserikkara	Perunthenaruvi girijan service co-op. society Ltd No. Q 763, Vechoochira P.O

Sl No.	Division	Range	Name of society
1	2	3	4
7		Goodrical	Seethathodu- Chittar tribal co-op.society.
8	Mankulam	Mankulam, Anakulam	Adimali girijan service society
9	Munnar	Adimali, Neriyaamangalam	Adimali girijan service co-op. society No. 3887
10	Kottayam	Nagarampara	Vazhathope ST service co-op. society, Vazhathope
11	Kothamangalam	Thodupuzha, Mullaringad, Kaliyar	Tribal co-op. society, Vazhathope
12	Chalakydy	Pariyaram, Palappilly, Vellikulangara	Palappilly girijan service co-op. society Ltd No. 3896
13	Palakkad	Olavakkode, Walayar	Malampuzha pattika varga co-op. society
14	Mannarkad	Agali	Sholayar girijan co-op. society
15			Kottathara Tribal co-op society
16		Attappadi, Mannarkad	Kurumba tribal co-op society
17	Nemmara	Nellyampathi, Kollengode	Pattikavarga sevana saharana sangam Ltd, Malampuzha.
18	Nilambur North	Edavanna, Nilambur, Vazhikkadavu	Nilambur SC/ST co-op. society, Ramankuth
19	Nilambur South	Kalikavu, Karulai	Nilambur tribal co-op. society (No. M/114)
20	Wayanad South	Chedleth	Pulpally ST co-op. society
21			Sulthan bathery ST co-op. society
22		Meppady , Kalpetta	Meppady ST co-op. society
23	Wayanad North	Begur	Thirunelly tribal co-op. society, Thirunelly. P.O, Appapara
24	Kozhikkode	Kuttiadi, Thamarasserry	Vilangad ST service co-op. society
25	Kannur	Thalipparamba, Kottiyoor, Kannavam	Nedumpoyil ST service co-op. society, Nedumpoyil
26	Periyar East	Thekkady	Periyar honey processing unit

Timber depots

A total of 28 number of timber depots are managed by the department for the purpose of retail and whole sale of timber.

Circle / division wise timber depots as on 31.03.2016 are in table 8.15.

Table 8.15-Circle wise number of timber depots

Sl No.	Circle	Sales division	No. of depots
1	2	3	4
1	Southern circle, Kollam	Thiruvananthapuram	5
		Punalur	6
2	High range circle, Kottayam	Kottayam	4
3	Central circle, Thrissur	Perumbavur	5
4	Eastern circle, Palakkad	Palakkad	3
5	Northern circle, Kannur	Kozhikode	5
	Total		28

The details on timber depots are given in table 8.16.

Table 8.16-Circle wise details on timber depots

Sl No.	Circle	Sales division	Depots	
1	2	3	4	5
1	Southern circle, Kollam	Thiruvananthapuram	1	Kulathupuzha
			2	Thenmala
			3	Aryankavu
			4	Mullumala (Annex)
			5	Achenkovil
		Punalur	6	Kadakkamon
			7	Pathanapuram
			8	Konni
			9	Arekkakavu
			10	Tuet
			11	Veeyapuram
2	High range circle, Kottayam	Kottayam	12	Parampuzha
			13	Vettikkadu
			14	Thalakkode
			15	Kothamangalam

Sl No.	Circle	Sales division	Depots	
1	2	3	4	5
3	Central circle, Thrissur	Perumbavoor	16	Veetoor
			17	Varapuzha
			18	Mudikkal
			19	Chalakkudy
			20	Chettikulam
4	Eastern circle, Palakkad	Palakkad	21	Aruvakkode
			22	Nedumkayam
			23	Walayar
5	Northern circle, Kannur	Kozhikode	24	Chaliyam
			25	Kuppadi
			26	Baveli
			27	Kannothu
			28	Parappa



Kerala Forest & Wildlife Department
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