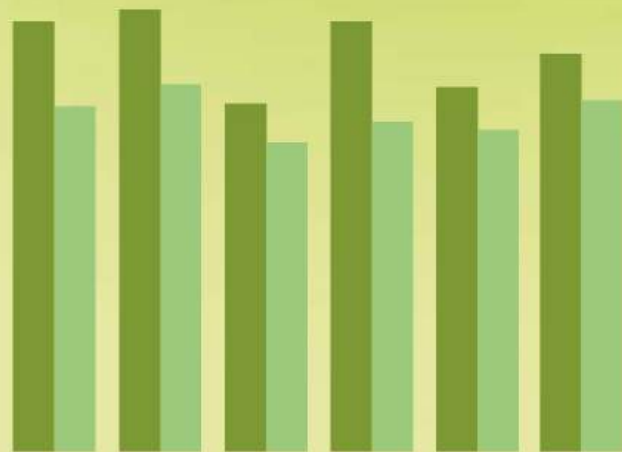


KERALA FOREST STATISTICS 2019





KERALA FOREST STATISTICS 2019





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 eastern boundary of Kerala. Increasing population and changing lifestyles of the people are exerting great pressure on forests. The greatest challenge faced by present day foresters is to accommodate developmental needs by minimizing the destruction of its rich forests.

A manager has to base his decisions on the available data / information on the subject. The broader and accurate data base is 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 2019' is one such effort made by Statistics Wing of the Department, headed by its 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 all segments of the society, who are having stake on the subject

P.K. Kesavan IFS
Principal Chief Conservator of Forests
& Head of Forest Force

INDEX

SL. NO.	CHAPTER NO.	CONTENT	PAGE NO.
1		Kerala at a Glance	1
2		Kerala Forest Statistics at a Glance	2
3	1	Forest Area	6
4	2	Forest Plantations	32
5	3	Resources	50
6	4	Infrastructure	62
7	5	Finance	76
8	6	Forest Offences	88
9	7	Wildlife Conservation	92
10	8	Other Vital Information on Forestry	110
11		Abbreviation	154

TABLES index

CHAPTER NO. 1

TABLE NO.	PARTICULARS	PAGE NO.
Table 1.1	Distribution of Forest area according to legal status (km ²)	8
Table 1.2	Division-wise area of Forest as on 31.03.2019 (km ²)	10
Table 1.3	Classification of Forest area according to utilization as on 31.03.2019	13
Table 1.4	Range wise Forest area as on 31.03.2019	13
Table 1.5	Details of area allotted to Different Agencies	18
Table 1.6	Division wise status of Ecologically Fragile Land	19
Table 1.7	Details of Encroachment of Forest Land as on 31.03.2019	20
Table 1.8	Classification of Forest Cover	22
Table 1.9	District wise Forest Cover (area in sq. km.)	25
Table 1.10	District wise Mangrove Cover in Kerala (km ²)	26
Table 1.11	Division wise Demarcation of Forest Boundaries as on 31.03.2019	28

CHAPTER NO. 2

TABLE NO.	PARTICULARS	PAGE NO.
Table 2.1	Distribution of Plantation Area	34
Table 2.2	Species wise Distribution of Plantation Abstract	34
Table 2.3	Division wise area of Plantation (species-wise) as on 31.03.2019 (Area in Ha)	35
Table 2.4	Species wise distribution of Plantation	37
Table 2.5	Division wise area of Plantation (species-wise) as on 31.03.2019 (Area in Ha)	38
Table 2.6	Details of Plantations Affected by Fire during 2018-19 (Area in Ha)	48
Table 2.7	Species wise Plantation area of KFDC	49

Chapter No. 3

TABLE NO.	PARTICULARS	PAGE NO.
Table 3.1	Outturn of Major Forest Produce during 2018-19	52
Table 3.2	Procurement of Non Timber Forest Produce during 2018-19	53
Table 3.3	Details on Species wise Procurement and Value of Minor Forest Produce during 2018-19	54
Table 3.4	Species wise Receipts of Major Forest Produce during 2018-19	56
Table 3.5	Designation wise details of Sanctioned Strength & In position as on 31-03-2019	58
Table 3.6	Training details during 2018-19	61

Chapter No. 4

TABLE NO.	PARTICULARS	PAGE NO.
Table 4.1	Details of Roads during 2018-19	64
Table 4.2	Details of Buildings under this Department	64
Table 4.3	Details of Vehicles under this Department	65
Table 4.4	Details of Arms & Ammunition	66
Table 4.5	Division wise number of Forest Stations	67
Table 4.6	Division / Range wise Details of Forest Stations	68
Table 4.7	Division wise number of Check-Post	72
Table 4.8	Division /Range wise details of Check-Post	73

Chapter No. 5

TABLE NO.	PARTICULARS	PAGE NO.
Table 5.1	The Comparative Position of Revenue and Expenditure	78
Table 5.2	Revenue from Timber and Other Forest Produce	78
Table 5.3	Outlay and Expenditure	80
Table 5.4	Target and Achievement during XIII Five Year Plan	80
Table 5.5	Achievements on Plan Schemes (Financial) during 2018-19	80
Table 5.6	Achievements on Non-Plan Schemes (Financial) during 2018-19	84
Table 5.7	Expenditure on Funds Received Directly from the Govt. of India	87
Table 5.8	Work done during the year for other Government Departmentments, Autonomous bodies, Local bodies or Agencies and expenditure incurred	87

CHAPTER NO. 6

TABLE NO.	PARTICULARS	PAGE NO.
Table 6.1	Abstract of number of Cases Booked	89
Table 6.2	Circle wise number of Cases Disposed	89
Table 6.3	Circle wise Cases Charged in the Court	90
Table 6.4	Circle wise Cases Pending with Department	90
Table 6.5	Circle wise number of Cases Booked Under Various Acts	91

CHAPTER NO. 7

TABLE NO.	PARTICULARS	PAGE NO.
Table 7.1	List of Wildlife Sanctuaries, National Parks, Community Reserves and Biosphere Reserves	94
Table 7.2	Status of Management Plan	97
Table 7.3	Details of Human-Wildlife Conflict Incidents	98
Table 7.4	Details of the Major Preventive Structures Constructed to Mitigate Human-Wildlife Conflict	99
Table 7.5	Compensation paid to Victims of Wildlife Attack during 2018-19	100
Table 7.6	Details of Rapid Response Teams during 2018-19	100
Table 7.7	Species wise Population of Animals	102
Table 7.8	Tiger Census	102
Table 7.9	Number of Elephants from Dung Count Method	103
Table 7.10	Details of Captive Elephants as on 31.03.2019	104
Table 7.11	Division wise Number of Department Elephants	104
Table 7.12	Details of Departmental Elephants Implanted with Micro-chip	104
Table 7.13	Estimated Population of Nilgiri Tahr (2008 to 2016)	106
Table 7.14	Estimated Population of Nilgiri Tahr in Different Landscapes	106
Table 7.15	List of Elephant Corridors	107
Table 7.16	Details of Wild Animals Rescued	108

CHAPTER NO. 8

TABLE NO.	PARTICULARS	PAGE NO.
Table 8.1	Status of Working Plan as on 31-03-2019	112
Table 8.2	Details of Division Wise Forest Fire Incidents	113
Table 8.3	Details of Fire Incidents	114
Table 8.4	Details of Fire Protection Measures Taken up During 2018-19	115
Table 8.5	Species wise Number of Seedlings Raised (<i>in lakhs</i>)	117
Table 8.6	Division wise number of VanaSamrakshanaSamithies (VSS)	118
Table 8.7	Division wise number of Eco-Development Committees (EDC)	118
Table 8.8	Detailed Statistics on VanaSamrakshanaSamithies	119
Table 8.9	Detailed Statistics on Eco-Development Committees	120
Table 8.10	Division wise Location of Vanasree Eco-shops	120
Table 8.11	District Wise Number of Eco-tourism Wildlife Sanctuaries and National Park Destinations	122
Table 8.12	Details of Ecotourism, Wildlife Sanctuaries & National Park Destinations in Kerala	123
Table 8.13	Details of Tourists and Income generated from Eco-tourism Activities in Territorial Divisions of Kerala Forest Department During 2018-19	146
Table 8.14	Details of Tourists & Income generated from Eco-tourism Activities Wildlife Divisions of Kerala Forest Department During 2018-19	149
Table 8.15	Division / Range wise Details of Tribal Co-operative Societies	150
Table 8.16	Circle wise Number of Timber Depots	152
Table 8.17	Circle wise Details on Timber Depots	153

KERALA AT A GLANCE

Geographical Area of Kerala State.....	38863 km ²
Density (persons/ km ²).....	860
Population (2011 census).....	33406061
Per Capita Land (as per 2011 census).....	0.116 ha
Male Population.....	16027412
Female Population.....	17378649
Rural Population.....	17471135
Urban Population.....	15934926
Scheduled Tribe Population.....	484839
Scheduled Caste Population.....	3039573
Sex Ratio (female per 1000 male).....	1084
Literacy Rate	94%
(Male Literacy-96%,Female Literacy-92%)	
Life Expectancy.....	74.6 years
Regional Language.....	Malayalam
No. of Villages.....	1644
No. of Grama Panchayath.....	941
No. of Block Panchayath.....	152
No. of District Panchayath.....	14
No. of Municipalities.....	87
No. of Municipal Corporations.....	6
Highest Peak.....	Anamudi
Longest River.....	Periyar

KERALA FOREST STATISTICS AT A GLANCE (AS ON 31.3.2019)

Total Forest Area	11520.058 km ²
Total Plantation Area	1562.856km ²
Total Ecologically Fragile Land(EFL) Area	137.659 km ²
Extent of Diversion of Forest Land	383.4902 km ²
Forest Cover(Forest Survey of India 2019)	21144 km ²
Tree Cover (Forest Survey of India 2019)	2936 km ²
Mangroves (Forest Survey of India 2019)	9 km ²
Carbon Stock in Forest	212.96 million tones
(Forest Survey of India 2019)	
Extent of Water Bodies within Forest	373 km ²
(Forest Survey of India 2019)	
Encroachment	78.01 km ²
Revenue from Forest (in crores)	287.20
Expenditure incurred (in crores)	569.89
Number of Wildlife Sanctuaries	17
Number of National Parks.....	6
Number of Community Reserve	1
Number of Biosphere Reserve	2
Area under Sanctuaries & National Parks	3213.237 km ²

Number of Forest Stations	124
Number of Check Posts	75
Number of Timbersales Depots	28
Number of Vanasree eco Shops	36
Number of Tribal Co-operative Societies	27
Number of Eco-tourism National Park and Wild life Sanctuaries Destination	60
Tourist Arrival in Ecotourism Destinations	5182389
Income Generated from Ecotourism Destinations	3662.50 lakhs
Quantity of Major Forest produce	
Timber	28286.077 m ³
Firewood & Billets	5269.608 MT
Sandal Wood	98834.300 kg
Teak Poles	9090.895 MT
Length of Road in charge of forest Department	4845.666 km
Human Wild life incidents during the year	7890 Nos.
under the Report	
Compensation paid to victims of wild life attack ...	1115.03 lakhs
Estimation of some important wild life species	5706
Elephant (Dung count method-2017)	

Tiger (Tiger Census -2018)	190
Nilgiri Tahr (Est. population-2016)	1420
Number of fire incidents relating to forest fire	434
Total destructed area by fire	17.37 km ²
Financial loss of fire incidents	1.53 lakhs
No. of seedlings raised by the department	81.01 lakhs
No. of seedlings distributed during the year	78.15 lakhs
Plantation under Kerala Forest Development Corporation	90.54 km ²
No. of Vana Samrakshana Samithies (VSS)	400
No. of Eco Development Committees (EDC)	190
Forest Area under VSS/EDC	1860.20 km ²
Number of families under VSS/EDC	
SC	10524
ST	19093
Others	41886



CHAPTER

1

FOREST AREA



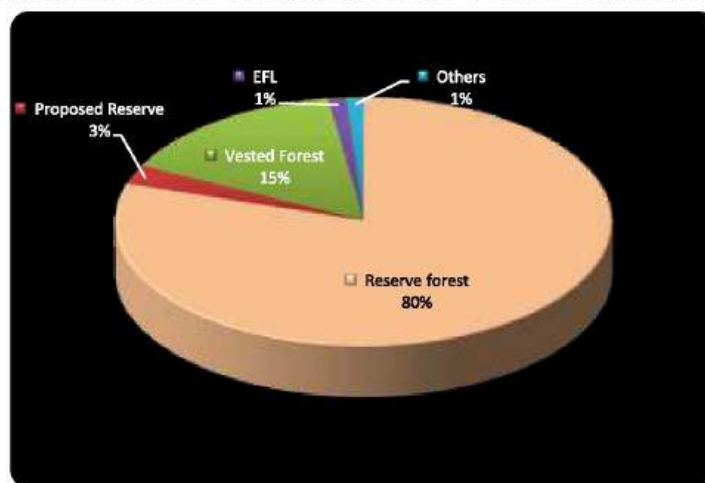
FOREST AREA

The forest area under the administrative charge of the department is 11520.058 km² at the close of the year 2018-19 and forms 29.64% of the total Geographical Area of Kerala State (38863 km²).

TABLE 1.1 >> DISTRIBUTION OF FOREST AREA ACCORDING TO LEGAL STATUS (Km²)

Reserve Forest	Proposed Reserve	Vested Forest	EFL	Others	Division Total
9195.704	291.606	1766.062	137.659	129.027	11520.058
79.82%	2.53%	15.33%	1.20%	1.12%	100%

LEGAL STATUS-WISE DISTRIBUTION OF FOREST AREA OF KERALA



RESERVE FORESTS

Any land, proposed to be a constituted as a Reserved Forest notified under Section 4 of Kerala Forest Act, 1961 and such forests notified under Section 19 of the Act after completing the procedures under Section 5 to 18 of the Act.

VESTED FORESTS

Any private Forest, where the ownership and possession of such forest is vested with the Government under Section 3 of the Kerala Private Forest (Vesting & Assignment) Act, 1971 and such forests are deemed Reserved Forests as per Section 4 of the Act

ECOLOGICALLY FRAGILE LANDS

'Ecologically Fragile Lands' 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 Lands (EFL) by the Government by notification in the official gazette under section 4 of Kerala Forest (Vesting & Management of Ecologically Fragile Lands) Act, 2003

RESERVE FOREST MAP OF KERALA

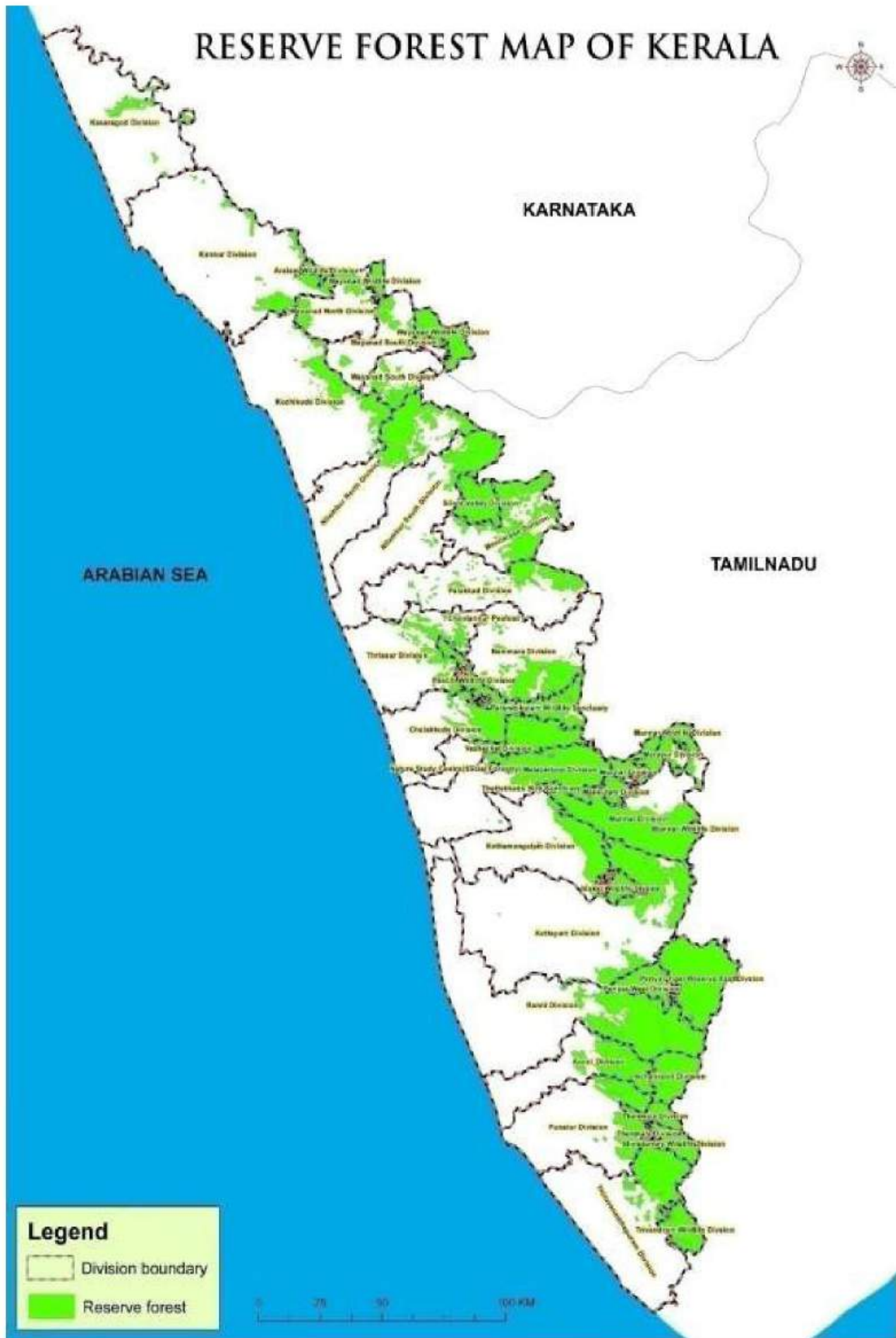


TABLE 1.2 >> DIVISION - WISE AREA OF FOREST AS ON 31.03.2019 (km²)

Sl. No.	Division	Reserve Forest	Proposed Reserve	Vested Forest	EFL	Others (PA)	Division Total	% of Division Total
SOUTHERN CIRCLE KOLLAM								
1	Thiruvananthapuram	359.124	5.825	0.376	7.169	0	372.494	3.23
2	Thenmala	140.753	0	7.736	0.455	0	148.944	1.29
3	Achencoil	284.330	0	0.208	1.331	0	285.869	2.48
4	Ranni	902.329	7.225	1.568	0	0	911.122	7.91
5	Punalur	275.381	0	0.169	0.157	0	275.707	2.39
6	Konni	320.553	11.102	3.012	0	0	334.667	2.91
SOUTHERN CIRCLE DIVISION TOTAL		2282.470	24.152	13.069	9.112	0	2328.803	20.21
HIGH RANGE CIRCLE KOTTAYAM								
7	Kothamangalam	316.840	0.024	0.158	0	0	317.022	2.75
8	Munnar *	693.535	69.095	2.575	5.148	0	770.353	6.69
9	Marayoor	14.375	47.260	0.076	2.465	0	64.176	0.56
10	Mankulam	0	90.057	0	0	0	90.057	0.78
11	Kottayam **	627.286	1.069	31.967	2.666	0	662.988	5.75
HIGH RANGE CIRCLE DIVISION TOTAL		1652.036	207.505	34.776	10.279	0	1904.596	16.53
CENTRAL CIRCLE THRISSUR								
12	Vazhachal	353.414	0	0	0	0	353.414	3.07
13	Chalakydy	237.470	0	0	0.040	0	237.510	2.06
14	Malayattoor	609.725	0.556	0	0	0	610.281	5.30
15	Thrissur	207.007	0.034	4.314	0.733	0	212.088	1.84
CENTRAL CIRCLE DIVISION TOTAL		1407.616	0.590	4.314	0.773	0	1413.293	12.27

Sl. No.	Division	Reserve Forest	Proposed Reserve	Vested Forest	EFL	Others (PA)	Division Total	% of Division Total
EASTERN CIRCLE PALAKKAD								
16	Mannarkkad	150.732	0	271.697	7.250	0	429.679	3.73
17	Nilambur North	58.393	0.252	371.720	9.622	0	439.987	3.82
18	Nilambur South	267.599	0	57.385	3.009	0	327.993	2.85
19	Palakkad	73.410	0	160.591	29.746	0	263.747	2.29
20	Nenmara	205.517	0.038	141.778	9.613	0	356.946	3.10
EASTERN CIRCLE DIVISION TOTAL		755.651	0.290	1003.171	59.240	0	1818.352	15.79
NORTHERN CIRCLE KANNUR								
21	Kozhikode	24.400	38.157	231.429	15.072	0	309.057	2.68
22	Wayanad North	134.058	15.107	65.852	9.082	0	224.099	1.95
23	Wayanad South	67.679	3.774	203.123	20.442	0	295.018	2.56
24	Kannur	93.361	0	60.380	4.821	0	158.562	1.38
25	Kasaragod	86.023	1.921	30.061	4.905	0	122.910	1.07
NORTHERN CIRCLE DIVISION TOTAL		405.521	58.959	590.845	54.322	0	1109.646	9.64
AGASTHYAVANAM BIOLOGICAL PARK								
26	Thiruvananthapuram	211.980	0	0	0	0	211.980	1.84
27	Shenthuruni	167.653	0	4.226	0.354	0	172.233	1.49
A B P DIVISION TOTAL		379.633	0	4.226	0.354	0	384.213	3.33
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM								
28	Periyar East	709.000	0	0	0	0	709.000	6.15
29	Periyar West	216.000	0	0	0	0	216.000	1.87
30	Munnar WL	112.077	0	0	0	***129.000	241.077	2.09
31	Idukki WL	130.524	0	0	0	0	130.524	1.13
FD (PT) DIVISION TOTAL		1167.601	0	0	0	129.000	1296.601	11.24

Sl. No.	Division	Reserve Forest	Proposed Reserve	Vested Forest	EFL	Others (PA)	Division Total	% of Division Total
WILDLIFE CIRCLE PALAKKAD								
32	Parambikulam	376.900	0	0	0	0	376.900	3.27
33	Wayanadu (WL)	344.443	0.039	0	0.052	0	344.534	2.99
34	Silent Valley	154.380	0	79.720	3.391	0	237.491	2.06
35	Peechi	210.067	0	3.301	0.136	0	213.504	1.85
36	Aralam	52.740	0	32.640	0	0	85.380	0.74
WL PALAKKAD - DIVISION TOTAL		1138.530	0.039	115.661	3.579	0	1257.809	10.91
OTHERS								
37	TS Kozhikode	0.202	0	0	0	0	0.202	0
38	TS Perumbavoor	0.284	0.031	0	0	0	0.315	0
39	NSC Kalady	6.161	0.04	0	0	0	6.201	0.05
40	Mangalavanam BS	0	0	0	0	***0.027	0.027	0
DIVISION TOTAL		6.647	0.071	0	0	0.027	6.745	0.06
GRAND TOTAL		9195.704	291.606	1766.062	137.659	129.027	11520.058	100%

*Includes an extend of 372.98 km²of Cardamom Hill Reserves (CHR) in Munnar Division

**Includes an extend of 479.258 km²of Cardamom Hill Reserves (CHR) in Kottayam Division

***Protected Area (PA) status only (Munnar WL 129 km² and Mangalavanam 0.027 km²).

TABLE 1.3 >> CLASSIFICATION OF FOREST AREA ACCORDING TO UTILIZATION AS ON 31.03.2019

Sl No.	Mode of utilization	Area (km ²)	% of Division Total
1	Dense Forests / Degraded Forest	9018.356	78.28
2	Plantation	1562.856	13.57
3	Area under lease	555.356	4.82
4	Forest land diverted under FCA	383.490	3.33
DIVISION TOTAL		11520.058	100%

FOREST AREA UTILIZATION IN KERALA

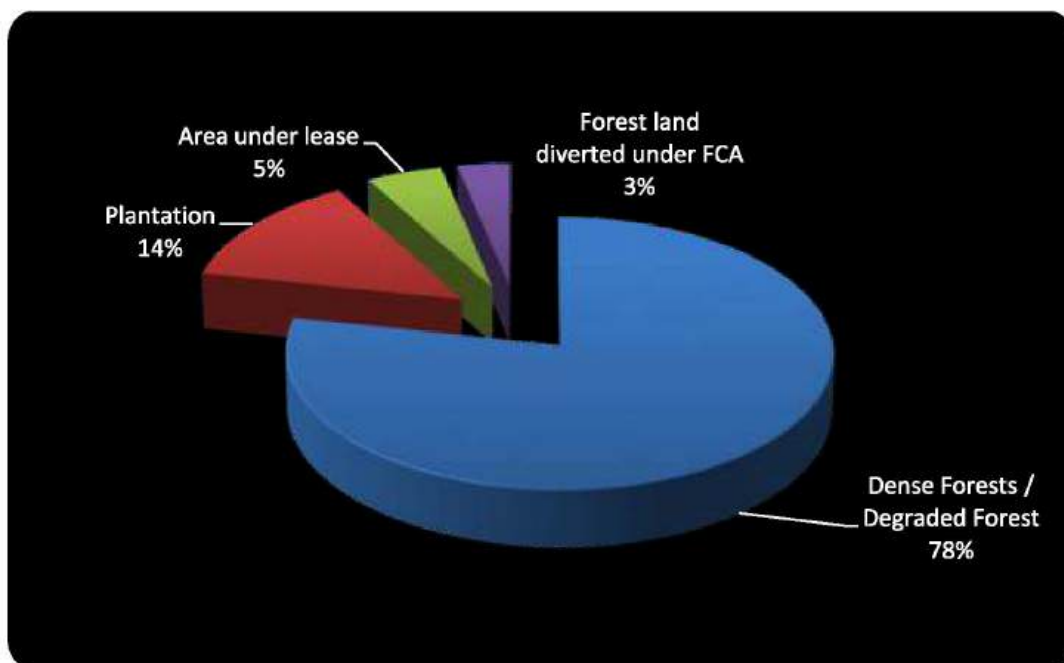


TABLE 1.4 >> RANGE WISE FOREST AREA AS ON 31.03.2019

Sl. No.	Name of Range	Area(km ²)
TERRITORIAL DIVISIONS		
1	Kulathupuzha	223.274
2	Palode	107.838
3	Paruthippally	41.382
THIRUVANANTHAPURAM DIVISION TOTAL		372.494

Sl. No.	Name of Range	Area(km ²)
4	Ariyankavu	73.341
5	Thenmala	75.603
THENMALA DIVISION TOTAL		148.944
6	Achancovil	90.286
7	Kallar	78.989
8	Kanayar	116.594
ACHANCOVIL DIVISION TOTAL		285.869
9	Ranni	136.295
10	Goodrikkal	505.967
11	Vadasserikkara	268.860
RANNI DIVISION TOTAL		911.122
12	Anchal	143.742
13	Pathanapuram	131.965
PUNALUR DIVISION TOTAL		275.707
14	Konni	62.805
15	Naduvathumoozhi	141.948
16	Mannarappara	129.914
KONNI DIVISION TOTAL		334.667
17	Thodupuzha	218.386
18	Kothamangalam	12.176
19	Kaliyar	49.080
20	Mullaringad	37.380
KOTHAMANGALAM DIVISION TOTAL		317.022
21	Munnar	136.361
22	Devikulam	356.778
23	Adimali	174.474
24	Neriyamangalam	102.740
MUNNAR DIVISION TOTAL		770.353
25	Marayoor	41.520
26	Kanthalloor	22.656
MARAYOOR DIVISION TOTAL		64.176
27	Mankulam	51.877
28	Anakulam	38.180
MANKULAM DIVISION TOTAL		90.057

Sl. No.	Name of Range	Area (km ²)
29	Erumeli	164.318
30	Ayyappancovil	89.278
31	Nagarampara	143.800
32	Kumili	265.592
KOTTAYAM DIVISION TOTAL		662.988
33	Charpa	59.975
34	Vazhachal	90.643
35	Sholayar	78.35
36	Kollathirumed	29.348
37	Athirappally	95.098
VAZHACHAL DIVISION TOTAL		353.414
38	Pariyaram	115.352
39	Palappilly	55.997
40	Vellikkulangara	66.161
CHALAKUDY DIVISION TOTAL		237.510
41	Kalady	66.337
42	Kodanadu	55.434
43	Thundathil	131.400
44	Kuttampuzha	187.040
45	Edamalayar	170.070
MALAYATTOOR DIVISION TOTAL		610.281
46	Vadakkancherry	56.859
47	Pattikkad	81.604
48	Machad	73.625
THRISSUR DIVISION TOTAL		212.088
49	Attappadi	170.281
50	Agali	131.469
51	Mannarkkad	127.929
MANNARKKAD DIVISION TOTAL		429.679
52	Nilambur	125.317
53	Edavanna	136.691
54	Vazhikadavu	177.979
NILAMBUR NORTH DIVISION TOTAL		439.987

Sl. No.	Name of Range	Area (km ²)
55	Kalikavu	62.385
56	Karulai	265.608
NILAMBUR SOUTH DIVISION TOTAL		327.993
57	Olavakkode	81.732
58	Walayar	144.406
59	Ottappalam	37.609
PALAKKAD DIVISION TOTAL		263.747
60	Nelliyampathi	206.577
61	Kollengode	69.714
62	Alathur	80.655
NENMARA DIVISION TOTAL		356.946
63	Peruvannamoozhi	150.613
64	Kuttiyadi	38.912
65	Thamarassery	119.532
KOZHICKODE DIVISION TOTAL		309.057
66	Begoor	106.128
67	Periya	90.096
68	Mananthavady	27.875
WAYANAD NORTH DIVISION TOTAL		224.099
69	Kalpetta	102.827
70	Meppady	116.315
71	Chethalayam	75.876
WAYANAD SOUTH DIVISION TOTAL		295.018
72	Kannavam	84.109
73	Kottiyoor	51.761
74	Ihalipparamba	22.692
KANNUR DIVISION TOTAL		158.562
75	Kanjangad	60.981
76	Kasaragode	61.929
KASARAGODE DIVISION TOTAL		122.910

Sl. No.	Name of Range	Area (km ²)
WILDLIFE DIVISIONS		
77	ABP, Kottoor	30.980
78	Neyyar Sanctuary	128.000
79	Peppara Sanctuary	53.000
THIRUVANANTHAPURAM DIVISION TOTAL		211.980
80	Shendurney Sancutuary	172.233
SHENDURUNEY DIVISION TOTAL		172.233
81	Periyar	376.000
82	Thekkady	99.000
83	Vallakkadavu	234.000
PERIYAR EAST (THEKKADY) DIVISION TOTAL		709.000
84	Pampa	66.930
85	Azhutha	149.070
PERIYAR WEST (PEERUMEDU) DIVISION TOTAL		216.000
86	Eravikulam NP	97.000
87	Chinnar wild life sanctuary	90.442
88	Anamudy Shola NP	7.500
89	Mathikettan Shola NP	12.817
90	Pampadum Shola NP	1.318
91	Kurinjimala Sanctuary	32.000
MUNNAR WL DIVISION TOTAL		241.077
92	Idukki	105.364
93	Thattekkad	25.160
IDUKKI DIVISION TOTAL		130.524
94	Sunkom	98.620
95	Parambikulam	102.030
96	Orukkomban	75.260
97	Karimala	100.990
PARAMBIKULAM DIVISION TOTAL		376.900
98	Tholpetty	77.760
99	Kurichiyatt	106.453

Sl. No.	Name of Range	Area (km ²)
100	Muthanga	74.293
101	Sulthan Bathery	86.028
WAYANAD DIVISION TOTAL		344.534
102	Silent Valley National Park	143.491
103	Bhavani	94.000
SILENT VALLEY DIVISION TOTAL		237.491
104	Peechi	125.017
105	Chimmini	85.067
106	Chulannur	3.420
PEECHI DIVISION TOTAL		213.504
107	Aralam	85.380
ARALAM DIVISION TOTAL		85.380
OTHERS		
108	TS Kozhikode	0.202
109	TS Perumbavoor	0.315
110	NSC Kalady	6.201
111	Mangalavanam BS ***	0.027
OTHERS TOTAL		6.745
GRAND TOTAL		11520.058

DIVERSION OF FOREST LAND

A total area of 383.4902 km² has been allotted to different agencies for non-forestry purposes as per Forest Conservation Act 1980 are summarised below.

TABLE 1.5 >> 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	Defense	36.00	2	65.00	1	0	0
2	Dispensary/Hospital	0.61	2	0	0	0	0
3	Drinking water	7.21	23	6.71	1	0.26	1

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)
4	Encroachment	28588.16	1	57176.00	1	0	0
5	Hydel	311.10	12	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	0
8	Rehabilitation	112.00	1	0	0	0	0
9	Road	36.66	24	48.76	5	0	0
10	School	12.96	5	25.90	2	0	0
11	Transmission line	755.19	66	739.86	10	351.99	9
12	Village electricity	29.23	69	12.91	2	0	0
13	Others	8034.33	70	85.26	5	158.20	4
	Total	38349.02	303	58646.55	39	789.99	24

ECOLOGICALLY FRAGILE LAND (EFL) AREA

The state has notified an approximate extent of 13765.90 Ha declared as Ecologically Fragile Land. Approximate extent of 1120.5080 Ha has been de-notified as per various redressal mechanism provided under EFL Act.

Division wise ecologically fragile land (EFL) area as on 31.03.2019 is given in Table 1.6

Sl. No.	Division	Area (Ha)
1	Thiruvananthapuram	716.90
2	Thenmala	45.50
3	Achencoil	133.10
4	Punalur	15.70
5	Munnar	514.80
6	Marayoor	246.50
7	Kottayam	266.60

Sl. No.	Division	Area (Ha)
8	Chalakydy	4.00
9	Thrissur	73.30
10	Mannarkkad	725.00
11	Nilambur North	962.20
12	Nilambur South	300.90
13	Palakkad	2974.60
14	Nenmara	961.30
15	Kozhikode	1507.20
16	Wayanad North	908.20
17	Wayanad South	2044.20
18	Kannur	482.10
19	Kasaragod	490.50
20	Shendurney	35.40
21	Wayanadu (WL)	5.20
22	Silent Valley	339.10
23	Peechi	13.60
GRAND TOTAL		13765.90

ENCROACHMENT

Details of encroachment of forest land as on 31.03.2019 is as follows

TABLE 1.7 >> DETAILS OF ENCROACHMENT OF FOREST LAND AS ON 31.03.2019

Circle	District	Division	Extent of Encroachment (Ha)
Southern Circle Kollam	Pathanamthitta	Konni	10.59
		Ranni	1.13
	Kollam	Thenmala	7.24
SOUTHERN CIRCLE KOLLAM TOTAL			18.96
High Range Circle Kottayam	Ernakulam	Kothamangalam	147.60
	Kottayam	Kottayam	121.49
	Idukki	Munnar	1099.65
		Marayoor	0.03
		Mankulam	358.43

Circle	District	Division	Extent of Encroachment (Ha)
HIGH RANGE CIRCLE KOTTAYAM TOTAL			1727.20
Central Circle Thrissur	Thrissur	Thrissur	147.04
	Ernakulam	Malayattoor	129.29
CENTRAL CIRCLE THRISSUR TOTAL			276.33
Eastern Circle Palakkad	Malappuram	Nilambur North	682.53
		Nilambur South	2.11
	Palakkad	Palakkad	190.58
		Mannarkkad	2700.34
		Nenmara	244.19
EASTERN CIRCLE PALAKKAD TOTAL			3819.75
Northern Circle Kannur	Kozhikode	Kozhikode	10.40
	Wayanad	Wayanad South	1369.29
		Wayanad North	369.74
	Kannur	Kannur	11.02
NORTHERN CIRCLE KANNUR TOTAL			1760.45
Field Director (PT) Kottayam	Kottayam	Periyar East	0.0061
	Idukki	Idukki	5.40
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM TOTAL			5.4061
Wildlife Palakkad	Thrissur	Peechi	193.02
WILDLIFE CIRCLE PALAKKAD TOTAL			193.02
Grand Total			7801.1161

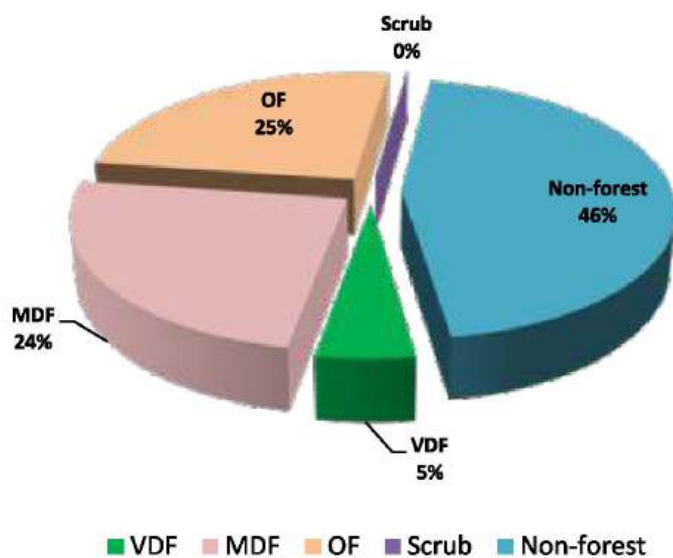
FOREST COVER

The forest cover in the State based on interpretation of Forest Survey of India 2019 is 21144 km² which is 54.41 % of the state geographical area, shows that forest cover of Kerala increased by 4.05% from the previous assessment. In terms of forest canopy density classes, the State has 1935 km² area under very dense forest, 9508 km² area under moderately dense forest and 9701 km² area under open forest. Forest Cover in the State has increased 823.29 km² as compared to the previous assessment reported in ISFR 2017. Top three states showing increase in Forest Cover are Karnataka (1,025 sq km) followed by Andhra Pradesh (990 sq km) and Kerala (823 sq km)

TABLE 1.8 >> CLASSIFICATION OF FOREST COVER

Class	Area (sq km)	% of Geographic Area
Very Dense forest	1935	4.98
Moderately Dense Forest	9509	24.47
Open Forest	9700	24.97
Total Forest Cover *	21144	54.42
Scrub	13	0.03
Non-forest	17695	45.54

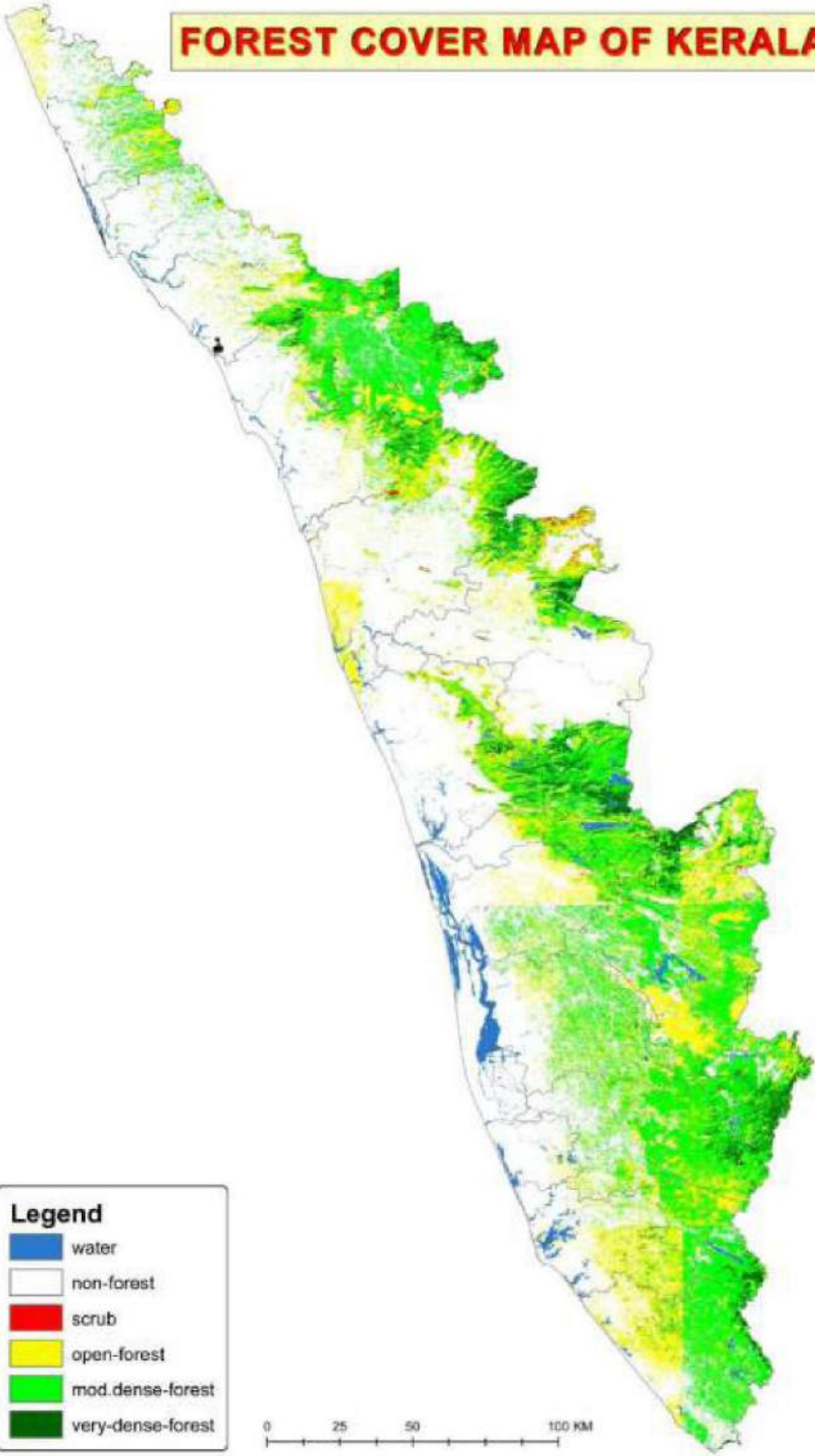
PERCENTAGE OF FOREST COVER IN DIFFERENT CLASSIFICATION



*Includes 9 sq. km. under Mangrove Cover Percentage rounded off.

Source: FSI 2019

FOREST COVER MAP OF KERALA



Legend

- water
- non-forest
- scrub
- open-forest
- mod.dense-forest
- very-dense-forest



Comparing district wise area cover in Kerala, Idukki has the largest forest cover (3151 Sq.Km.) in the state followed by Palakkad (2084 Sq. km.), Malappuram (1981 Sq. Km.), Pathanamthitta (1956 Sq. Km.) and Kannur (1654 Sq. Km). Interm of percentage of forest cover with respect to total geographical area, Wayand with 74.18% has the highest forest cover, followed by Pathanamthitta (73.76%), Idukki (72.33%), Kozhikode (61.28%) and Thiruvananthapuram (59.57%). The table reveals that there is an increase in forest cover to the extent of 823 sq. km. as compared to previous assessment which is mainly due to commercial plantation outside forest area as well as improvement in interpretation.

In Kerala there are 10 Hill districts are identified by planning Commission of India, these are marked by superscript ('H') in table 1.9 and 9 Tribal districts identified by Government of India under the Integrated Tribal programme. These are marked with superscript ('T') in table 1.9.

Classification scheme for the purpose of assessment in this report is described as follows

<i>Class</i>	<i>Description</i>
<i>Very Dense forest</i>	<i>All lands with tree canopy density of 70% and above</i>
<i>Moderately Dense Forest</i>	<i>All lands with tree canopy density of 40% and more but less than 70%</i>
<i>Open Forest</i>	<i>All lands with tree canopy density of 10% and more but less than 40%</i>
<i>Scrub</i>	<i>Degraded forest lands with canopy density less than 10%</i>
<i>Non-forest</i>	<i>Lands not included in any of the above classes</i>

Source: FSI 2019

TABLE 1.9 >> DISTRICT -WISE FOREST COVER (area in sq. km.)

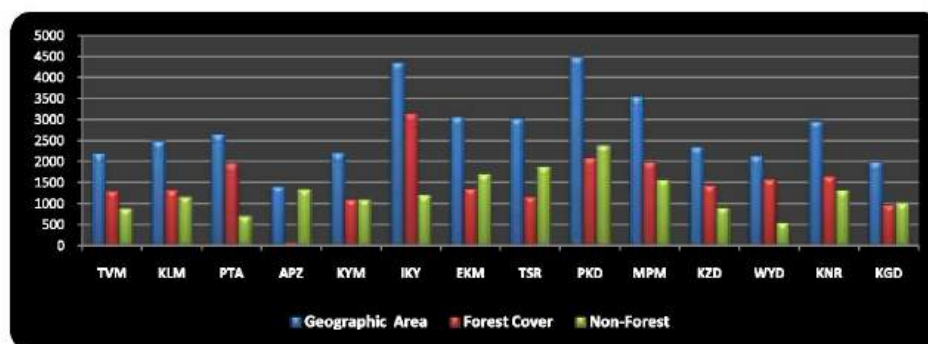
District	Geographic Area	2019 Assessment				% of Geographic Area	Change*	Scrub	Non-Forest
		Very Dense Forest	Moderately Dense Forest	Open Forest	Total Forest Cover				
Thiruvananthapuram TH	2189	57	698	549	1304	59.57	-23		885
Kollam TH	2483	104	657	561	1322	53.26	-34		1161
Pathanamthitta	2652	162	1236	558	1956	73.74	126		696
Alappuzha	1415	0	27	53	80	5.65	12		1335
Kottayam	2206	12	532	560	1104	50.06	137		1102
Idukki TH	4356	348	1796	1007	3151	72.33	12	1	1204
Ernakulam TH	3063	167	615	584	1366	44.59	93		1697
Thrissur	3027	219	476	464	1159	38.30	7	0	1868
Palakkad TH	4482	403	637	1044	2084	46.49	258	12	2386
Malappuram TH	3554	143	424	1414	1981	55.75	170	0	1573
Kozhikode ^H	2345	71	410	956	1437	61.28	-47		908
Wayanad TH	2130	189	1221	170	1580	74.19	0		550
Kannur TH	2961	58	486	1110	1654	55.86	93		1307
Kasaragode TH	1989	2	294	670	966	48.59	19		1023
State Total	3885	1935	9509	9700	21144	54.42	823	13	17695

H – Hill District ; TH – Tribal Hill Districts

*Change compared to updated FSI 2017 assessment.

Source: FSI 2019

DISTRICT –WISE GEOGRAPHICAL AREA, FOREST COVER & NON-FOREST



MANGROVE COVER

Mangroves are salt tolerant evergreen forest ecosystems found mainly in tropical and sub tropical coastal and or inter-tidal region.

Area covered under mangroves vegetation as interpreted from remote sensing data of Government of India. It is included in the forest cover. Water bodies and creeks are not included in the mangrove cover. The Mangrove ecosystems are unique & rich in biodiversity and they provide numerous ecological services.

TABLE 1.10 >> DISTRICT WISE MANGROVE COVER IN KERALA (km²)

Sl. No.	District	Mangrove cover			
		Very Dense	Moderate Dense	Open Forest	Total
1	Ernakulam	0	1	1	2
2	Kannur	0	4	2	6
3	Kasaragode	0	0	1	1
State Total		0	5	4	9

Source: FSI 2019

NATIONAL SCENARIO

After taking account the changes observed during assessment period ISFR 2017 and ISFR 2019, there has been increase of 3,976 sq. km. forest cover at the national level. The top three states showing increase in forest cover are Karnataka (1,025 sq. km) followed by Andhra Pradesh (990 sq km) and Kerala (823 sq km). The total forest cover of the country as per the India State of Forest Report 2019 is 7,12, 249 sq. km., which constitutes 21.67 percent of the total geographical area (32,87,469 km²) of the country. Of this, 99,278 sq. km. (3.02%) is very dense forest, the moderate dense forest constitutes 3,08,472 sq. km. (9.39) and the open forest constitutes 3,04,499 sq.km (9.26). The mangrove cover in the country is 4,975 sq. km. which is 0.15% of the country's geographical area.

Source: FSI 2019

DEMARICATION OF FOREST BOUNDARIES

The total length of boundary at the close of the year was 16845.81 km. Total length of boundary requiring demarcation was 11554.74 km. The length of forest boundaries artificially demarcated and existing boundaries required during the year under report were 2012.68 km and 9541.83 km respectively. 14618 Nos. of jundas has constructed for demarcation of boundaries during 2018-19.

TABLE 1.11 >> DIVISION-WISE DEMARCATION OF FOREST BOUNDARIES AS ON 31.03.2019

(Length in km)

Sl. No.	Division	Total length of boundary	Length of natural boundary not requiring demarcation	Length of boundary requiring demarcation	Total length of boundary demarcated as on 31.03. 2019	Length of boundary which require demarcation as on 31.03. 2019	Junda constructed during 2018-19 (No.)
SOUTHERN CIRCLE KOLLAM							
1	Thiruvananthapuram	397.29	53.25	344.04	240.04	104.00	1414
2	Thenmala	250	41.21	208.79	202.55	6.24	236
3	Punalur	843.55	483.00	360.55	341.77	18.78	1875
4	Achencoil	221.44	85.52	135.92	128.93	6.99	55
5	Ranni	760.92	337.35	423.57	423.57	0	0
6	Konni	159.70	51.42	108.28	108.28	0	125
SC KOLLAM-DIVISION TOTAL		2632.90	1051.75	1581.15	1445.14	136.01	3705
HIGH RANGE CIRCLE KOTTAYAM							
7	Kottayam	596.14	59.00	537.14	533.99	3.15	461
8	Munnar	1407.00	115.00	1292.00	392.38	899.62	1520
9	Kothamangalam	484.11	72.51	411.60	329.75	81.85	487
10	Marayoor	105.00	27.00	78.00	75.58	2.42	34

Sl. No.	Division	Total length of boundary	Length of natural boundary not requiring demarcation	Length of boundary requiring demarcation	Total length of boundary demarcated as on 31.03. 2019	Length of boundary which require demarcation as on 31.03. 2019	Junda constructed during 2018-19 (No.)
11	Mankulam	211.17	58.00	153.17	140.49	12.68	349
HRC KOTTAYAM -DIVISION TOTAL		2803.42	331.51	2471.91	1472.19	999.72	2851
CENTRAL CIRCLE THRISSUR							
12	Malayattoor	720.31	409.30	311.01	307.18	3.60	108
13	Vazhachal	250.00	180.00	70.00	70.00	0	0
14	Chalakkudy	484.99	281.40	203.59	203.59	0	0
15	Thrissur	795.00	25.00	770.00	770	0	0
CC THISSUR- DIVISION TOTAL		2250.30	895.70	1354.60	1350.77	3.60	108
EASTERN CIRCLE PALAKKAD							
16	Nenmara	887.85	171.70	716.15	559.34	156.81	1250
17	Palakkad	764.99	158.19	606.80	472.67	134.13	2248
18	Mannarkkad	893.00	286.00	607.00	465.11	141.89	1450
19	Nilambur (S)	294.88	128.73	166.15	164.05	2.10	27
20	Nilambur (N)	721.00	356.00	365.00	337.29	27.71	270
EC PALAKKAD - DIVISION TOTAL		3561.72	1100.62	2461.10	1998.46	462.64	5245

Sl. No.	Division	Total length of boundary	Length of natural boundary not requiring demarcation	Length of boundary requiring demarcation	Total length of boundary demarcated as on 31.03. 2019	Length of boundary which require demarcation as on 31.03. 2019	Junda constructed during 2018-19 (No.)
NORTHERN CIRCLE KANNUR							
21	Kozhikode	815.39	175.49	639.9	552.49	87.41	998
22	Wayanadu (S)	1096.30	386.50	709.80	605.52	104.28	415
23	Wayanadu (N)	343.55	103.95	239.60	169.26	70.34	268
24	Kannur	503.35	48.00	455.35	455.35	0	235
25	Kasaragod	630.99	24.40	606.59	593.43	13.16	105
NC KANNUR- DIVISION TOTAL		3389.58	738.34	2651.24	2376.05	275.19	2021
AGASTHYAVANAM BIOLOGICAL PARK							
26	Thiruvananthapuram WL	220.10	67.50	152.60	143.17	9.43	165
27	Shenduruney	103.00	46.07	56.93	56.93	0	0
ABP-WL DIVISION TOTAL		323.10	113.57	209.53	200.10	9.43	165
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM							
28	Periyar East	207.50	50	157.50	157.50	0	119
29	Periyar West	129.67	52.00	77.67	77.67	0	15
30	Idukki	160.60	145.60	15.00	15.00	0	0

Sl. No.	Division	Total length of boundary	Length of natural boundary not requiring demarcation	Length of boundary requiring demarcation	Total length of boundary demarcated as on 31.03. 2019	Length of boundary which require demarcation as on 31.03. 2019	Junda constructed during 2018-19 (No.)
31	Munnar WL	342.00	41.50	300.50	216.14	84.36	200
FD(PT) KOTTAYAMWL DIVISION TOTAL		839.77	289.1	550.67	466.31	84.36	334
WILDLIFE CIRCLE PALAKKAD							
32	Peechi	161.90	151.07	10.83	5.85	4.98	20
33	Parambikulam	153.50	153.50	0	0	0	0
34	Silent Valley	198.23	121.92	76.31	62.37	13.94	25
35	Wayanad WL	474.00	300.60	173.40	150.59	22.81	144
36	Aralam	57.39	43.39	14.00	14.00	0	0
PALAKKAD –WL DIVISION TOTAL		1045.02	770.48	274.54	232.81	41.73	189
GRAND TOTAL		16845.81	5291.07	11554.74	9541.83	2012.68	14618

A photograph of a lush green forest. The trees are tall and slender, with a dense canopy of leaves. In the foreground, there is a large tree trunk with a yellow measuring band wrapped around it. The ground is covered with green undergrowth.

CHAPTER

2

FOREST PLANTATIONS



FOREST PLANTATIONS

The total plantation area under the department as on 31.03.2019 is 156285.621 Ha, which comes to 13.57% of the total forest area. Considering species wise distribution of plantation, Teak covers an extent of 76710.554 Ha which is 49.08% of total plantation areas. The annual revenue of the department comes mainly from the thinning and final felling of these plantations.

PLANTATION STATISTICS

TABLE 2.1 >> DISTRIBUTION OF PLANTATION AREA

Sl. No.	Category	Area (Ha)
1	Territorial Divisions	132694.258
2	Wild Life Divisions	23348.396
3	NSC, Kalady	242.967
STATE TOTAL		156285.621

TABLE 2.2 >> SPECIES WISE DISTRIBUTION OF PLANTATION ABSTRACT

Sl. No.	Plantation	Area (Ha)	Percentage (%)
1	Hardwood	82832.63	53
2	Softwood	10838.691	6.93
3	Bamboo, cane & reeds	9746.815	6.24
4	Mangrove	371.068	0.24
5	Others	52496.417	33.59
STATE TOTAL		156285.621	100

**TABLE 2.3 >> DIVISION WISE AREA OF PLANTATION (SPECIES-WISE)
AS ON 31.03.2019 (Area in Ha)**

Sl. No.	Division	Hard wood	Soft wood	Others	Bamboo, cane and reeds	Mangroves	Total
1	Thiruvananthapuram	1971.317	262.010	3383.308	113.760	0	5730.395
2	Thenmala	1931.370	619.910	3213.260	34.500	0	5799.040
3	Punalur	2895.760	457.000	1626.510	129.220	0	5108.490
4	Achenkovil	3200.668	0	3901.652	1188.971	0	8291.291
5	Ranni	4171.840	34.570	1983.130	397.410	0	6586.950
6	Konni	8654.610	26.440	754.330	611.000	0	10046.380
7	Kottayam	4082.915	356.729	1311.138	344.400	0	6095.182
8	Munnar	790.520	4399.200	1326.780	646.460	0	7162.960
9	Kothamangalam	4721.105	300.760	1208.357	282.560	0	6512.782
10	Marayoor	0	869.620	0	17.2	0	886.820
11	Mankulam	142.25	117.600	642.580	378.350	0	1280.780
12	Malayattoor	5056.860	27.550	2890.130	74.700	0	8049.240
13	Vazhachal	3934.590	479.510	2909.860	330.940	0	7654.900
14	Chalakkudy	4559.63	107.800	1107.470	38.600	0	5813.500
15	Thrissur	2270.220	249.620	4495.066	0	0	7014.906

Sl. No.	Division	Hard wood	Soft wood	Others	Bamboo, cane and reeds	Mangroves	Total
16	Nenmara	1552.948	110.420	1423.245	67.800	0	3154.413
17	Palakkad	1850.810	108.820	1641.530	173.430	0	3774.590
18	Mannarkkad	434.210	143.920	681.900	50.000	0	1310.030
19	Nilambur (South)	4543.819	0	437.416	187.500	0	5168.735
20	Nilambur (North)	4307.974	0	2295.347	1251.484	0	7854.805
21	Kozhikkode	26.240	316.450	31.750	11.000	0	385.440
22	Wayanad (South)	2332.100	911.030	1794.180	206.000	0	5243.310
23	Wayanad (North)	610.740	280.950	3075.290	1318.000	0	5284.980
24	Kannur	464.612	0	4189.034	102.100	251.979	5007.725
25	Kasaragod	1058.858	30.352	1799.103	469.212	119.089	3476.614
26	Thiruvananthapuram WL	42.580	140.540	1164.891	1166.468	0	2514.479
27	Peechi WL	457.427	0	2106.100	132.250	0	2695.777
28	Parambikulam WL	8747.470	0	0	0	0	8747.470
29	Silent valley WL	437.300	57.890	139.000	0	0	634.190
30	Wayanad WL	7128.370	430.000	876.810	0	0	8435.180
31	Aralam WL	291.300	0	30.000	0	0	321.300
32	NSC,Kalady	162.217	0	57.250	23.500	0	242.967
STATE TOTAL		82832.630	10838.691	52496.417	9746.815	371.068	156285.621

TABLE 2.4 >> SPECIES WISE DISTRIBUTION OF PLANTATION

Sl. No.	Species	Area (Ha)	% to total Plantation
1	Teak	76710.554	49.08
2	Teak & soft wood	14440.346	9.24
3	Acacia Mangium	3082.365	1.97
4	Accacia auriculiformis	7618.208	4.87
5	Eucalyptus	6471.940	4.14
6	Cane	3926.163	2.51
7	Bamboo	5277.302	3.38
8	Rosewood	375.056	0.24
9	Mahogany	553.402	0.35
10	Sandalwood	64.340	0.04
11	Other Hardwood	1226.544	0.79
12	Reeds	543.350	0.35
13	Pepper	100.000	0.06
14	Medicinal plants	2944.409	1.88
15	Gravelia robusta	550.630	0.35
16	Pine	546.400	0.35
17	Albezzia	147.290	0.09
18	Anjili	589.609	0.38
19	Kambakam	230.760	0.15
20	Elavu	303.510	0.20
21	Rubber	42.100	0.03
22	Balsa	21.040	0.01
23	Wattle	2191.410	1.40
24	Matti	500.662	0.32
25	Cashew	4357.434	2.79
26	Agave	9.640	0.01
27	Alnus	74.350	0.05
28	Sesbania	21.070	0.01
29	Casuarina	118.870	0.08
30	Silver Oak	134.250	0.09
31	Mangroves	371.068	0.24
32	Fruit bearing trees	302.543	0.19
33	Tea	1.902	0
34	Miscellaneous	22437.104	14.36
STATE TOTAL		156285.621	100

TABLE 2.5 >> DIVISION WISE AREA OF PLANTATION (SPECIES-WISE)
AS ON 31.03.2019 (Area in Ha)

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
I	SOUTHERN CIRCLE KOLLAM										
1	Thiruvananthapuram	361.702	217.395	842.808	1789.367	235.910	0	113.760	0	0	0
2	Thenmala	1836.420	271.400	94.950	332.13	619.910	10.000	21.500	0	0	0
3	Punalur	1391.840	245.460	1475.270	749.79	457.000	0	129.220	0	28.650	0
4	Achencoil	2927.122	1179.977	0	0	0	992.771	144.000	273.546	0	0
5	Ranni	3606.730	1110.000	24.320	228.130	0	96.270	115.680	3.000	68.000	0
6	Konni	8280.820	0	176.79	168.080	5.400	336.500	274.500	72.000	0	0
	Total	18404.634	3024.232	2614.138	3267.497	1318.220	1435.541	798.660	348.546	96.650	0
II	HIGH RANGE CIRCLE KOTTAYAM										
7	Kottayam	3996.319	78.000	0	56.000	265.320	140.600	203.800	0	0	0
8	Munnar	790.520	0	0	0	2330.050	0	646.460	0	0	0
9	Kothamangalam	4452.288	0	235.477	14.200	161.310	214.950	67.610	8.100	15.240	0
10	Marayoor	0	0	0	0	0	0	17.200	0	0	0
11	Mankulam	0	0	12.750	0	50	68.560	53.100	0	3.500	0
	Total	9239.127	78.000	248.227	70.200	2806.680	424.110	988.170	8.100	18.740	0

Sl No.	Divisions	Other Hardwood	Reeds	Pepper	Medicinal plants	Gravelia robusta	Pine	Albezzia	Anjili	Kambakom	Elavu	Rubber
1	2	13	14	15	16	17	18	19	20	21	22	23
I	SOUTHERN CIRCLE KOLLAM											
1	Thiruvananthapuram	129.140	0	0	800.856	0	0	7.000	570.707	66.960	0	0
2	Thenmala	0	3.000	0	0	0	0	0	0	0	0	0
3	Punalur	0	0	0	197.360	0	0	0	0	0	0	0
4	Achencoil	0	52.200	0	337.115	0	0	0	0	0	0	0
5	Ranni	469.790	185.460	0	0.130	0	0	0	0	0	34.570	0
6	Konni	0	0	0	228.750	0	0	0	0	125.000	0	0
	TOTAL	598.930	240.660	0	1564.211	0	0	7.000	570.707	191.960	34.570	0
II	HIGH RANGE CIRCLE KOTTAYAM											
7	Kottayam	77.694	0	0	8.500	0	61.400	0	8.902	0	0	0
8	Munnar	0	0	0	0	85.320	485.000	0	0	0	44.240	0
9	Kothamangalam	0	0	0	0	0	0	0	10.000	0	11.550	0
10	Marayoor	0	0	0	0	0	0	0	0	0	0	0
11	Mankulam	126.000	256.690	0	83.800	67.600	0	0	0	0	0	0
	TOTAL	203.694	256.690	0	92.300	152.920	546.400	0	18.902	0.000	55.790	0

Sl No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total Plantation
1	2	24	35	26	27	28	29	30	31	32	33	34	35	36
I	SOUTHERN CIRCLE KOLLAM													
1	Thiruvananthapuram	0	0	13.100	158.500	0	0	0	0	0	0	0	423.190	5730.395
2	Thenmala	0	0	0	0	0	0	0	0	0	0	0	2609.73	5799.040
3	Punalur	0	0	0	0	0	0	0	0	0	0	0	433.900	5108.490
4	Achencoil	0	0	0	0	0	0	0	0	0	0	0	2384.56	8291.291
5	Ranni	0	0	0	0	0	0	0	0	0	0	0	644.870	6586.950
6	Konni	21.040	0	0	0	0	0	0	0	0	0	0	357.500	10046.380
	TOTAL	21.040	0	13.100	158.500	0	0	0	0	0	0	0	6853.750	41562.546
II	HIGH RANGE CIRCLE KOTTAYAM													
7	Kottayam	0	0	0	0	0	0	0	0	0	0	0	1198.647	6095.182
8	Munnar	0	1320.79	133.800	0	0	61.60	0	0	0	0	0	1265.180	7162.960
9	Kothamangalam	0	0	127.900	54.000	0	0	0	0	0	0	0	1140.157	6512.782
10	Marayoor	0	869.620	0	0	0	0	0	0	0	0	0	0	886.820
11	Mankulam	0	0	0	0	0	12.75	0	0	0	0	0	546.030	1280.780
	TOTAL	0	2190.410	261.70	54.000	0	74.35	0	0	0	0	0	4150.014	21938.524

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
III	CENTRAL CIRCLE THRISSUR										
12	Malayattoor	4888.360	2768.43	145.000	121.700	17.250	0	74.700	0	0	0
13	Vazhachal	3885.790	1820.930	10.000	0	211.560	163.660	167.280	0	0	0
14	Chalakkudy	4559.630	869.980	0	75.620	0	0	38.600	0	0	0
15	Thrissur	2251.810	0	0	2414.926	181.920	0	0	18.410	0	0
16	TS, Perumbavoor	0	0	0	0	0	0	0	0	0	0
	TOTAL	15585.590	5459.340	155.000	2612.246	410.730	163.660	280.580	18.410	0	0
IV	EASTERN CIRCLE PALAKKAD										
17	Nenmara	1294.508	0	0	428.957	110.420	25.000	42.800	0	2.380	0
18	Palakkad	1838.18	76.600	0	55.820	41.920	65.880	107.550	0	0	0
19	Mannarkkad	419.010	0	0	164.540	143.920	17.400	32.600	0	0	0
20	Nilambur (S)	4543.819	206.764	0	57.620	0	153.500	34.000	0	0	0
21	Nilambur (N)	4069.729	0	0	0	0	421.560	829.924	0	142.675	0
	TOTAL	12165.246	283.364	0.000	706.937	296.260	683.340	1046.874	0	145.055	0.000

Sl No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total P lantation
1	2	24	35	26	27	28	29	30	31	32	33	34	35	36
III	CENTRAL CIRCLE THRISSUR													
12	Malayattoor	0	0	10.300	0	0	0	0	0	0	0	0	0	8049.240
13	Vazhachal	0	0	0	0	0	0	21.07	0	0	0	0	917.110	7654..900
14	Chalakkudy	0	0	0	161.870	0	0	0	0	0	0	0	0	5813.500
15	Thrissur	0	0	40.000	1994.760	0	0	0	0	0	0	0	74.830	7014.906
16	TS,Perumbavoor	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	50.300	2156.630	0	0	21.07	0	0	0	0	991.940	28532.546
IV	EASTERN CIRCLE PALAKKAD													
17	Nenmara	0	0	0	168.270	0	0	0	0	75.030	0	0	742.108	3154.413
18	Palakkad	0	0	66.900	17.170	0	0	0	32.63	0	0	2.000	1372.790	3774.590
19	Mannarkkad	0	0	0	152.710	9.64	0	0	0	0	0	0	287.190	1310.030
20	Nilambur (S)	0	0	0	0	0	0	0	0	0	0	0	94.672	5168.735
21	Nilambur (N)	0	0	0	284.009	0	0	0	0	0	0	0	1812.560	7854.805
	TOTAL	0	0	66.900	622.159	9.64	0	0	32.63	75.030	0	2.000	4309.320	21262.573

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
V	NORTHERN CIRCLE KANNUR										
22	Kozhikode	26.240	0	0	10.000	316.450	0	11.000	0	0	0
23	Wayanadu (S)	2328.100	29.900	0	293.880	589.870	30.000	166.000	0	4.000	0
24	Wayanadu (N)	483.700	1017.030	65.000	190.800	201.640	788.000	494.000	0	62.040	0
25	Kannur	390.724	2952.410	0	238.830	0	102.100	0	0	73.888	0
26	Kasaragod	827.149	0	0	155.918	0	299.412	169.800	0	153.029	57.720
	TOTAL	4055.913	3999.340	65.000	889.428	1107.960	1219.512	840.800	0.000	292.957	57.720
VI	AGASTHYAVANAM BIOLOGICAL PARK										
27	Thiruvananthapuram	42.580	0	0	58.500	44.200	0	1166.468	0	0	0
	TOTAL	42.580	0	0	58.500	44.200	0	1166.468	0	0	0
VII	WILDLIFE CIRCLE PALAKKAD										
28	Peechi	457.427	719.260	0	0	0	0	132.250	0	0	0
29	Parambikulam	8747.470	0	0	0	0	0	0	0	0	0
30	Silent Valley	437.300	0	0	0	57.890	0	0	0	0	0
31	Wayanad WL	7121.75	876.810	0	0	430.000	0	0	0	0	6.620
32	Aralam	291.300	0	0	0	0	0	0	0	0	0
	TOTAL	17055.247	1596.070	0.000	0.000	487.890	0.000	132.250	0.000	0.000	6.620

Sl No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total P lantation
1	2	24	35	26	27	28	29	30	31	32	33	34	35	36
V	NORTHERN CIRCLE KANNUR													
22	Kozhikode	0	0	0	21.750	0	0	0	0	0	0	0	0	385.440
23	Waynadu (S)	0	0	0	0	0	0	0	0	51.50	0	0	1348.840	5243.310
24	Waynadu (N)	0	1.000	78.310	0	0	0	0	0	7.72	0	0	1384.920	5284.980
25	Kannur	0	0	0	107.250	0	0	0	0	0	251.979	0	727.284	5007.725
26	Kasaragod	0	0	30.352	1129.295	0	0	0	86.24	0	119.089	0	380.250	3476.614
	TOTAL	0	1.000	108.662	1258.295	0	0	0	86.24	59.220	371.068	0	3841.294	19398.069
VI	AGASTHYAVANAM BIOLOGICAL PARK													
27	Thiruvananthapuram	0	0	0	0	0	0	0	0	0	0	300.543	805.848	2514.479
	TOTAL	0	0	0	0	0	0	0	0	0	0	300.543	805.848	2514.479
VII	WILDLIFE CIRCLE PALAKKAD													
28	Peechi	0	0	0	35.000	0	0	0	0	0	0	0	1347.84	2695.777
29	Parambikulam	0	0	0	0	0	0	0	0	0	0	0	0	8747.470
30	Silent Valley	0	0	0	0	0	0	0	0	0	0	0	139.000	634.190
31	Waynad WL	0	0	0	0	0	0	0	0	0	0	0	0	8435.180
32	Aralam	0	0	0	30.000	0	0	0	0	0	0	0	0	321.300
	TOTAL	0	0	0	65.000	0	0	0	0	0	0	0	1486.840	20833.917

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
VIII	SOCIAL FORESTRY, ERNAKULAM										
33	NSC, Kalady	162.217	0	0	13.400	0	0	23.500	0	0	0
TOTAL		162.217	0	0	13.400	0	0	23.500	0	0	0
GRAND TOTAL		76710.554	14440.346	3082.365	7618.208	6471.940	3926.163	5277.302	375.056	553.402	64.340

Sl. No.	Divisions	Other Hardwood	Reeds	Pepper	Medicinal plants	Gravelia robusta	Pine	Albezzia	Anjili	Kambakom	Elavu	Rubber
1	2	13	14	15	16	17	18	19	20	21	22	23
VIII	SOCIAL FORESTRY, ERNAKULAM											
33	NSC, Kalady	0	0	0	1.000	0	0	0	0	0	0	0
TOTAL		0	0	0	1.000	0	0	0	0	0	0	0
GRAND TOTAL		1226.544	543.350	100.000	2944.409	550.630	546.400	147.290	589.609	230.760	303.510	42.100

SI No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total P lantation
1	2	24	35	26	27	28	29	30	31	32	33	34	35	36
VIII	SOCIAL FORESTRY, ERNAKULAM													
33	NSC,Kalady	0	0	0	42.850	0	0	0	0	0	0	0	0	242.967
TOTAL		0	0	0	42.850	0	0	0	0	0	0	0	0	242.967
GRAND TOTAL		21.040	2191.410	500.662	4357.434	9.640	74.350	21.070	118.87	134.25	371.068	302.543	22439.006	156285.621

FIRE AFFECTED PLANTATIONS

TABLE 2.6 >> DETAILS OF PLANTATIONS AFFECTED BY FIRE DURING 2018-19 (Area in Ha)

SI No.	Division	Teak	Eucalyptus	Miscellaneous	Bamboo	Accacia	Mangium	Others	Total
1	Thiruvananthapuram	1.000	1.940	0.304	0	3.000	0	0	6.244
2	Achenkovil	0	0	0	0	0	0	3.000	3.000
3	Kothamangalam	3.500	0	0	0	0	0	0	3.500
4	Thrissur	4.040	0	0	4.000	1.500	0	3.000	12.540
5	Chalakkudi	13.510	0	0	0	0	0	0	13.510
6	Nilambur (N)	9.000	0	0	0	0	0	0	9.000
7	Kannur	0.607	0	0	0	0	0	0	0.607
8	Wayanad WL	0.600	0	0	0	0	0	0	0.600
TOTAL		32.257	1.940	0.304	4.000	4.500	0	6.000	49.001

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.

TABLE 2.7 >> SPECIES WISE PLANTATION AREA OF KFDC


Sl. No.	Speceis	Area (Ha)
1	Teak & Soft wood	1255.830
2	Acacia Auriculifomis/Acacia Manjium/Acacia Crassicarpa	1993.011
3	Eucalyptus	2542.425
4	Cardamom	994.710
5	Mahagony	9.400
6	Bamboo	835.356
7	Tea	100.670
8	Coffee	606.167
9	Cashew	307.683
10	Rubber	57.936
11	Pepper	3.800
12	Red sandal wood	80.977
13	Sandal wood	17.97
14	Albezia	70.350
15	Gmelina	40.454
16	Residual Misce. Growth for sale	8.921
17	Matty interplanted with cashew	33.500
18	Planting with E-pellitta	1.800
19	Pine, Alnus, Casurina, Failed Eucalyptus, etc	92.783
TOTAL		9053.743



CHAPTER

3

RESOURCES



NATURAL RESOURCES

Forest provides natural services and products. It plays an important role in maintaining ecological balance and contributes to economy also. During the year total out turn of Teak, Sandalwood, Honey etc are 21223.904 M³, 98834.300 kg and 39021.25 kg respectively.

OUTTURN OF MAJOR FOREST PRODUCE

Outturn of major forest produce during the reporting year is shown in table 3.1.

TABLE 3.1 >> OUTTURN OF MAJOR FOREST PRODUCE DURING 2018-19

Sl. No.	Category	Unit	Quantity
1	Industrial wood	M ³	24956.947
2	Plywood	M ³	737.308
3	Match wood	M ³	571.514
4	Bobbin wood	M ³	1974.164
5	Packing case wood	M ³	46.144
6	Pulpwood	MT	51743.503
7	Miscellaneous		
	a Teakpoles	MT	9090.895
	b Fire wood/ Billets	MT	5269.608
	c Sandal wood	kg	98834.300
	d Honey	kg	39021.25

PROCUREMENT OF NON TIMBER FOREST PRODUCE (NTFP)



TABLE 3.2 >> PROCUREMENT OF NON TIMBER FOREST PRODUCE DURING 2018-19

Sl. No.	Name	Quantity (kg)
1	Ayurvedic herbs	497991.75
2	Spices	41068.00
3	Fibre	12073.70
4	Grass other than fodder	83125.000
5	Incentive plants	11989.61
6	Vegetable Oil Seeds	2122.40
7	Medicinal Trees	8555.900
8	Honey (Vanthen)	39021.250
9	Bee Wax	244.800

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

PROCUREMENT OF MINOR FOREST PRODUCE (MFP)



Total quantity and value of minor forest produce of NTFP was 1265.806 tonnes and ₹607.25 lakhs respectively.

Details on species wise procurement and value of Minor Forest Produce during 2018-19

TABLE 3.3 >> DETAILS ON SPECIES WISE PROCUREMENT AND VALUE OF MINOR FOREST PRODUCE DURING 2018-19

Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
1	Adalodakam (Dry)	333.00	20.05	6678.00
2	Adalodakam (Pacha)	9082.00	12.00	108984.00
3	Athithippali	6581.00	53.36	351140.00
4	Broom Grass	83125.00	23.02	1913375.00
5	Cane	52951.00	46.76	2475728.00
6	Cheevakai	466116.00	7.61	3546933.00
7	Chenchelyam	907.50	112.55	102136.00
8	Chenchelyam II	1416.50	90.67	128439.00
9	Chenchelyam III	144.90	80.00	11592.00
10	Cheruthekku	1428.50	60.45	86350.00
11	Cheruvazhuthana	41537.00	51.95	2157675.00
12	Cheruvazhuthana (Pacha)	17987.00	14.00	251738.00
13	Chittaratha	94.00	120.00	11280.00
14	Chunda (Pacha)	131183.00	9.53	1250628.00
15	Derba	538.50	75.00	40388.00
16	Eramkol	21300.00	6.50	138450.00
17	Honey - Vanthen	37606.85	368.32	13851356.00
18	Honey - Cheruthen	1414.40	865.33	1223924.00
19	Honey wax	244.80	275.88	67536.00
20	Incha	990.00	45.66	45200.00
21	Kadukkathode	150.00	30.00	4500.00
22	Kakkumkai-Parantakai	1631.40	29.08	47435.00
23	Kalpasam	130.00	97.69	12700.00
24	Kanjiramtholi	251.00	71.35	17910.00
25	Karimkurinji	88482.00	22.48	1988698.00
26	Kasturimanjal	41068.00	15.05	618174.00
27	Kattukurumulakin thandu	10761.70	37.90	407840.00
28	Kattupadavalam	8483.50	1490.20	12642104.00
29	Kattuthippeli	3696.00	2159.92	7983054.00
30	Kayanthikuru	11.00	100.00	1100.00

Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
31	Kolinchi	433.00	19.90	8615.00
32	Koppu vella	108.50	150.00	16275.00
33	Kudampuli	8529.00	23.75	202550.00
34	Kumil	3804.00	18.00	68472.00
35	Kunthirikkam II	838.00	103.00	86313.00
36	Kunthirikkam III	1644.00	88.70	145826.00
37	Kunthirikkam I	3398.91	159.84	543284.00
38	Kurumulaku vally	314.00	42.75	13422.00
39	Kurumulaku vally II	998.00	34.00	33932.00
40	Kurumthotti	14811.50	28.68	424850.00
41	Kurumthotti (pacha)	124804.00	23.56	2940179.00
42	Marottikkuru II	3715.00	15.00	55725.00
43	Moovila	698.00	46.38	32370.00
44	Moovila (pacha)	14262.80	59.77	852462.00
45	Mullilam	26.90	800.00	21520.00
46	Nagagandhi	10768.00	55.73	600055.00
47	Orila	8128.00	25.55	207645.00
48	Orila (Red)	5347.00	54.12	289392.00
49	Pachotti patta	20366.50	84.85	1727999.00
50	Padakizhangu	1125.00	62.41	70211.00
51	Palmuthakku	491.00	20.67	10150.00
52	Pathiripoovu I	8.90	213.48	1900.00
53	Pathiripoovu III	1173.05	352.22	413167.00
54	Pattincha/Incha	5916.00	41.95	248165.00
55	Peenari	615.00	52.11	32050.00
56	Pollakai	2260.00	18.00	40680.00
57	Ponkorandi	798.00	57.33	45750.00
58	Putharichunda	380.00	33.16	12600.00
59	Seethari	84.20	919.83	77450.00
60	Tharavella	315.00	29.00	9135.00
TOTAL		1265806.81		60725189.00

Source: Kerala State Federation of SC/ST Development Co-operatives Ltd.

SPECIES WISE RECEIPTS OF MAJOR FOREST PRODUCE

Species wise receipts of major forest produce during 2018-19 is shown in below table

TABLE 3.4 >> SPECIES WISE RECEIPTS OF MAJOR FOREST PRODUCE DURING 2018-19			
Sl. No.	Species	Unit	Quantity
INDUSTRIAL WOOD			
1	Teak	M ³	21223.904
2	Rosewood	M ³	93.774
3	Mahogany	M ³	22.263
4	Anjili	M ³	355.804
5	Kambakom	M ³	20.699
6	Thembavu / Karimaruthu	M ³	131.667
7	Venga	M ³	16.377
8	Venteak	M ³	428.459
9	Jack/ Plavu	M ³	41.102
10	Myla	M ³	2.227
11	Manimaruthu	M ³	8.349
12	Maruthu	M ³	1261.314
13	Irul	M ³	934.404
14	Mulluvengai	M ³	10.541
15	Unnam/Chadachi	M ³	20.043
16	Thanni	M ³	203.851
17	Karimthakara	M ³	79.253
18	Pathiri	M ³	5.117
19	Poovam	M ³	26.216
20	Kunnivaka	M ³	14.892
21	Kanjiram	M ³	0.883
22	Vediplavu	M ³	8.788
23	Mullankaini	M ³	47.02
TOTAL			24956.947
PLYWOOD			
1	Kulamavu / Ooravu	M ³	52.242
2	Mavu	M ³	23.418
3	Redcedar/ Chandanavembu	M ³	60.578
4	Thelippaine	M ³	6.476
5	Poon/Punna/Punnavu	M ³	52.675
6	Cheeni	M ³	16.624
7	Nedunaru	M ³	3.185
8	Kumbil	M ³	1.489
9	Njaval / Njara	M ³	31.451
10	Chorakkali	M ³	10.436
11	Silver Oak	M ³	18.457

Sl. No.	Category	Unit	Quantity
12	Karuva	M ³	1.079
13	Pottama	M ³	5.734
14	Karana	M ³	3.854
15	Vatta	M ³	447.416
16	Poomaram	M ³	2.194
TOTAL			737.308
MATCHWOOD			
1	Elavu/Poola	M ³	225.081
2	Pala / Mukkampala	M ³	156.400
3	Vaka	M ³	136.24
4	Nasakom/Kanala	M ³	42.227
5	Matti	M ³	11.566
TOTAL			571.514
BOBBINWOOD			
1	Akil/Vellakil	M ³	1919.931
2	Kurangadi	M ³	11.254
3	Manjakadambu	M ³	42.979
TOTAL			1974.164
PACKING CASE WOOD			
1	Malaveppu	M ³	1.070
2	Ambazham	M ³	4.267
3	Karingazha / Poopathiri	M ³	1.788
4	Poochakadambu	M ³	0.153
5	Mazhamaram	M ³	9.506
6	Pali	M ³	17.758
7	Kara/Rudraksham	M ³	9.982
8	Uthi	M ³	1.620
TOTAL			46.144
PULPWOOD			
1	Eucalyptus	MT	3538.614
2	Acacia Mangium/Acacia auriculiformis	MT	20160.259
3	Bamboo	MT	25447.890
4	Reeds	MT	2596.740
TOTAL			51743.503
MISCELLANEOUS			
1	Fire wood/ Billets	MT	5269.608
2	Teak Poles	MT	9090.895
3	Honey	Kg	39021.25
4	Sandal wood	kg	98834.300

STAFF STRENGTH

TABLE 3.5 >> DESIGNATION WISE DETAILS OF SANCTIONED STRENGTH & IN POSITION AS ON 31-03-2019

Sl. No.	Name of post	Sanctioned Strength	In Position
1	Principal Chief Conservator of Forests	6	6
2	Addl. Principal Chief Conservator of Forests	5	4
3	Chief Conservator of Forests	11	11
4	Conservator of Forests	13	9
5	Dy. Conservator of Forest(IFS Cadre)	35	35
6	Addl. Deputy Conservator of Forests	5	2
7	Forest Tribunal (Judicial staff)	1	1
8	Joint Secretary (Law)	1	1
9	Senior Finance Officer	1	1
10	Senior Administrative Officer	1	1
11	Deputy Director (Statistics)	1	1
12	Deputy Director (Wildlife Education)	3	3
13	Asst. Conservator of Forests / Deputy Conservator of Forests (NC)	101	100
14	Senior Administrative Assistant	9	8
15	Administrative Assistant	12	11
16	Personal Assistant	3	3
17	Senior Superintendent	34	33
18	Range Forest Officer	205	193
19	Deputy Range Forest Officer	168	159
20	Public Relation Officer	1	1
21	Assistant Forest Public Relation Officer	3	2
22	Junior Superintendent	71	71
23	Head Accountant	74	74
24	Research Assistant**	3	4
25	Senior Grade Wildlife Assistant	2	1
26	Wildlife Assistant	8	7



Sl. No.	Name of post	Sanctioned Strength	In Position
27	Senior Clerk	443	443
28	Clerk	446	442
29	Statistical Assistant Grade. II & I	34	31
30	Faircopy Superintendent	8	6
31	Selection Grade Typist	33	32
32	Senior Grade Typist	33	33
33	Typist Clerk	1	1
34	UD Typist	33	33
35	LD Typist	34	33
36	Confidential Assistant	39	34
37	Legal Assistant	1	1
38	Section Officer (Law)	1	1
39	Chief Forest Veterinary Officer	1	1
40	Forest Veterinary Officer	1	1
41	Asst. Forest Veterinary Officer	14	7
42	Veterinary Doctor	1	0
43	Documentation Officer	1	0
44	Asst. Director (Survey)	1	1
45	Survey Superintendent	2	2
46	Surveyor Grade I & II	66	36
47	Head Surveyor	2	2
48	Section Forest Officer	992	903
49	Beat Forest Officer	2647	2476
50	Sheristadar cum Secretary	1	1
51	Head Draftsman	2	2
52	Draftsman	45	32
53	Circle Inspector of Police	2	0
54	SI of Police	4	0
55	Senior Civil Police Officer	22	10
56	Civil Police Officer	110	2
57	Librarian	1	1
58	Project Operator	1	0
59	Pharmacist	2	1
60	Dispensary Attender	1	0
61	Nursing Assistant	1	0

Sl. No.	Name of post	Sanctioned Strength	In Position
62	Binder	2	2
63	PT Instructor	6	1
64	Record cum Store Keeper	3	0
65	Museum Assistant	1	0
66	Office Attendant	420	408
67	Peon cum Sweeper	1	1
68	Daffedar	1	0
69	Attender	18	18
70	Dark Room Attender	1	0
71	Driver	257	209
72	Photographer cum Artist	1	0
73	Gardner	4	2
74	Traker cum Gardner	3	0
75	Gardner cum Marker	1	0
76	Cleaner	2	0
77	Muduvan Watcher	8	8
78	Night Watcher	25	21
79	RF Watcher / Depot watcher	196	157
80	Tribal Watcher	700	678
81	Watcher cum Cook	6	2
82	Tapal Watcher	3	0
83	Rest House Watcher	1	0
84	Scavenger/Sanitary Worker	1	2
85	Cook/Asst. Cook	1	0
86	Boat Driver	12	7
87	Boat Zrang	1	0
88	Boat Watcher	2	0
89	Boat Cleaner/Cleaner	3	0
90	Lascar	4	2
91	Survey Lascar	11	1
92	Mahouts & Kavadi	26	17
93	Timber Supervisor	1	0
94	Pump Operator	1	0
95	Lab Assistant	1	0
96	Radio Mechanic	1	0
97	Bench Clerk (on deputation)	1	1
98	Helper	2	0

Sl. No.	Name of post	Sanctioned Strength	In Position
99	Bus Cleaner	1	0
100	Chowkeedar	1	0
101	Part Time Contingent Employees	303	279
TOTAL		7836	7126

** Statistical Assistant Gr. I post upgraded at Southern Circle, Kollam. (1) GO(MS) No. 29/2015 forest dated 14.05.2015
(2) GO(MS) No. 110/2015 forest dated 28.12.2015 As per above GO 185 Supernumerary Watcher Post were existed.

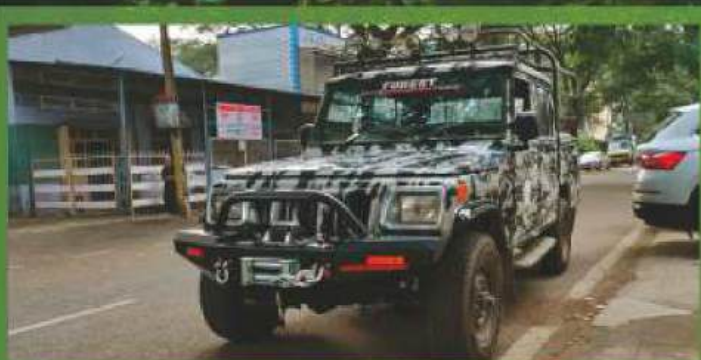
TRAINING

During the year, 1198 officials of various cadres were imparted training through different training programmes. An abstract of the same is given below.

TABLE 3.6 >> TRAINING DETAILS DURING 2018-19		
Sl. No.	Training	No. of participants
A. TRAINING WITHIN THE STATE		
1	Forestry Training Centre(FTC), (O/o APCCF (IHRD)	140
2	Induction Training of Beat Forest Officer at Kerala Forest Service, Arippa &Walayar	297
3	Induction Training of Deputy Range Forest Officer Trainees at Kerala Forest Service, Arippa	85
4	Induction Training of Section Forest Officers Trainees at Kerala Forest Service, Arippa	36
5	Training Programme for Final Year BSc. Forestry Students	28
6	IMG Training	443
7	Other Training	147
TOTAL		1176
B. TRAININGS OUTSIDE STATE		
1	Extension Education Institute (EEI) , Hyderabad	2
2	Central Academy for State Forest Service (CASFOS), Coimbatore	6
3	Central Academy for State Forest Service (CASFOS), Dehradun	4
4	CASFOS, Burnihat	7
5	Foreign Training	3
TOTAL		22
GRAND TOTAL		1198

CHAPTER

4



INFRASTRUCTURE



INFRASTRUCTURE

Kerala Forest Department maintained 4145.470 km motorable road and 700.196 km Non-motorable road. There are 3260 buldings under Forest Department. Department possesses 758 numbers of different types of vehicles

ROAD

The type wise details of roads maintained by the department as on 31.03.2019 are given below.

TABLE 4.1 >> DETAILS OF ROADS DURING 2018-19

Sl. No.	Type of Road	Length (km)
1	Black topped	475.072
2	Metalled	884.563
3	Cement concrete	38.583
4	Earthern road (Unsurfaced)	3447.448
TOTAL		4845.666
1	Motorable	4145.470
2	Non-motorable	700.196

BUILDINGS

TABLE 4.2 >> DETAILS OF BUILDINGS UNDER THIS DEPARTMENT

Sl. No.	Item	In position (No.)
I	Office buildings	327
II	Rest house/Government cottages/IB	66
III	Quarters	
	a) Type VI	23
	b) Type V	16
	c) Type IV	58
	d) Type III	204
	e) Type II	673
	f) Type I	372
	g) Other Quarters	167
IV	Dormitory	90
V	Community Hall	39
VI	Forest Stations & Associated Buildings	138
VII	Other Buildings	1087
TOTAL		3260

VEHICLES

Kerala Forest Department possesses 758 numbers of different types of vehicles. The details as on 31.03.2019 are given below.

TABLE 4.3 >> DETAILS OF VEHICLES UNDER THIS DEPARTMENT				
Sl. No.	Vehicles	In position (No.)		Total number of vehicles
		In running condition	Not in running condition	
1	Mahindra Jeep	150	30	180
2	Bolero	105	7	112
3	Invader	9	1	10
4	Motor cycle	115	39	154
5	Mahindra Thar/ Camper	104	1	105
6	Ambassador car / Other cars	32	14	46
7	Innova	34	0	34
8	Mahindra Xylo / Xuv / Scorpio	35	0	35
9	Bus/Minibus	19	1	20
10	Toyota Qualis	6	0	6
11	Minilorry / Lorry	5	1	6
12	E Rikshaw	1	0	1
13	Ambulance	1	0	1
14	Ford Fiesta	1	0	1
15	Scorpio Getaway	7	0	7
16	Gurkha Explorer	1	0	1
17	Tata Winger	3	0	3
18	Alpha Pick up	1	1	2
19	Maruthi Gipsy	1	0	1
20	Mini Van - Tata Ace Magic	0	2	2
21	Boat	28	3	31
TOTAL		658	100	758

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.

TABLE 4.4 >> DETAILS OF ARMS & AMMUNITION

Sl. No.	Circle	No. of Rifles	No. of Revolvers	No. of gun / pump action gun	No. of Tranquil izers	No. of Ammunition (Cartridges & Bullets)
1	Sothern Circle, Kollam	28	10	5	0	305
2	High Range Circle, Kottayam	59	13	9	0	503
3	Central Circle, Thrissur	37	10	0	0	218
4	Eastern Circle, Palakkad	50	8	0	0	789
5	Northern Circle, Kannur	28	5	3	1	736
6	ABP, Thiruvananthapuram	13	7	0	0	1358
7	Field Director (Project Tiger), Kottayam	93	19	69	0	2360
8	Wildlife Circle, Palakkad	75	15	0	0	1958
9	Inspection & Evaluation, Kottayam	15	6	0	0	301
10	Inspection & Evaluation, Kozhikode	16	8	0	0	386
11	Estate Office FHQ, TVM	10	0	0	0	4065
TOTAL		424	101	86	1	12979

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.



TABLE 4.5 >> DIVISION WISE NUMBER OF FOREST STATIONS

Sl. No.	Division	No. of Forest Stations
1	Thenmala	1
2	Achenkovil	1
3	Punalur	3
4	Konni	7
5	Ranni	9
6	Kottayam	6
7	Kothamangalam	1
8	Munnar	6
9	Marayoor	4
10	Thrissur	10
11	Vazhachal	8
12	Chalakydy	3
13	Malayattoor	14
14	Nilambur north	7
15	Nilambur South	4
16	Mannarkkad	8
17	Nemmara	3
18	Wayanad North	5
19	Wayanad South	4
20	Kozhikode	2
21	Periyar East	1
22	Periyar West	3
23	Munnar WL	4
24	Silent Valley	2
25	Peechi	1
26	Wayanad WL	6
27	Aaralam WL	1
TOTAL		124

TABLE 4.6 >> DIVISION/ RANGE WISE DETAILS OF FOREST STATIONS

Sl. No.	Division	Range	Forest Stations
SOUTHERN CIRCLE KOLLAM			
1	Thenmala	Thenmala	1 Kadamanpara
2	Achenkovil	Achenkovil	2 Kumbavuruthy
3	Punalur	Pathanapuram	3 Ambanar
			4 Punnala
			5 Ezhamkulam
4	Konni	Konni	6 Kumaramperoor (South)
			7 Kumaramperoor (North)
		Naduvathumoozhy	8 Kokkathodu
			9 Karippanthodu
		Mannarappara	10 Padom
			11 Chempala
5	Ranni	Ranni	12 Mannarappara
			13 Karikkulam
			14 Kanamala
		Vadasserikkara	15 Rajampara
			16 Chittar
			17 Gurunathanmannu
		Goodrikkal	18 Thannithodu
			19 Plappally
			20 Kochukoickal
21 Pachakkanam			
HIGH RANGE CIRCLE KOTTAYAM			
6	Kottayam	Nagarampara	22 Vazhathoppu
			23 Vairamony
		Ayyappancoil	24 Kanchiyar
			25 Murinjapuzha
			26 Vandanpathal
27 Placherry			
7	Kothamangalam	Thodupuzha	28 Velloor
8	Munnar	Munnar	29 Pettimudy
		Adimali	30 Machiplavu
			31 Panamkutty
		Neriyamangalam	32 Nagarampara
			33 Inchathotty
34 Valara			

Sl. No.	Division	Range	Forest Stations	
9	Marayoor	Marayoor	35	Marayoor
			36	Nachivayal
		Kanthalloor	37	Kanthalloor
			38	Vannanthura
CENTRAL CIRCLE THRISSUR				
10	Thrissur	Vadakkancherry	39	Erumapetty
			40	Poongodu
			41	Mayannoor
		Machad	42	Akamala
			43	Elanad
			44	Vazhani
		Pattikkad	45	Pattikkad
			46	Ponganamkad
			47	Mannamangalam
			48	Vaniyampara
11	Vazhachal	Charpa	49	Kannamkuzhy
			50	Vazhachal
		Vazhachal	51	Mukkumpuzha
			52	Kollathirumedu
		Kollathirumedu	53	Malakkappara
			54	Sholayar
		Sholayar	55	Athirappally
56	Ezhattumugham			
12	Chalakyudy	Pariyaram	57	Konnakuzhy
			58	Chaippankuzhy
		Vellikulangara	59	Mupliyam
13	Malayattoor	Kodanadu	60	Perumthodu
			61	Erumukham
			62	Mekkappala
		Kalady	63	Karakkadu
			64	Kannimangalam
			65	Evergreen
		Thundathil	66	Bhothathankettu
			67	Karimpani
			68	Edamalayar
			69	Vadathuppara

Sl. No.	Division	Range	Forest Stations	
	Malayattoor	Kuttampuzha	70	Pooyamkutty
			71	Anakulam
		Edamalayar	72	Ennakkal
			73	Perumuzhy
EASTERN CIRCLE PALAKKAD				
14	Nenmara	Kollengode	74	Thekkady
		Nelliampathy	75	Nelliampathy
		Alathur	76	Mangalam dam
15	Mannarkkad	Mannarkkad	77	Palakkayam
			78	Mannarkkad
			79	Thiruvizhamkunnu
		Attappady	80	Pudur
			81	Mukkali
		Agali	82	Ommala
			83	Sholayar
16	Nilambur (South)	Karulai	84	Singappara
			85	Padukka
		Kalikavu	86	Nedumkayam
			87	Chakkikuzhi
17	Nilambur (North)	Edavanna	88	Karuvarakundu
			89	Akampadam
			90	Edacode
		Nilambur	91	Kodumpuzha
			92	Vaniyampuzha
		Vazhikkadavu	93	Kanjirapuzha
			94	Nellikuthu
95	Pothukal			
NORTHERN CIRCLE KANNUR				
18	Wayanad (North)	Mananthavady	96	Makkiyad
		Begur	97	Thirunelly
			98	Thalapuzha
		Periya	99	Kunjome
			100	Varayal

Sl. No.	Division	Range	Forest Stations	
19	Wayanad (South)	Chedleth	101	Irulam
			102	Vythiri
			103	Mundakkai
			104	Pulpal
20	Kozhikkode	Peruvannamoozhy	105	Kakkayam
			106	Peruvannamoozhy
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM				
21	Munnar WL (Eravikulam)	Eravikulam NP	107	Chattamunnar
		Chinnar WS	108	Kambakkallu
			109	Karimutti
		Shola NP	110	Kadavari
22	Periyar East	Vallakkadavu	113	Gavi
23	Periyar West	Pamba	114	Sannidhanam
			115	Mukkuzhi
			116	Pachakkanam
WILDLIFE CIRCLE PALAKKAD				
24	Silent Valley	Bhavani	111	Anavai
			112	Thudukki
25	Peechi	Peechi	117	Olakara
26	Wayanad WL	Kurichiat	118	Vandikkadavu
			119	Kuppady
		Sulthanbathery	120	Naikatty
			121	Muthanga
		Tholpetty	122	Thottamoola
123	Tholpetty			
27	Aaralam WL	Aaralam	124	Narikkadavu

CHECK POSTS

Division wise number of check posts as on 31.03.2019 is given below

TABLE 4.7 >> DIVISION WISE NUMBER OF CHECK-POST		
Sl. No.	Division	No. of Check-post
1	Thiruvananthapuram	4
2	Thenmala	2
3	Punalur	1
4	Konni	4
5	Ranni	3
6	Achencovil	1
7	Kottayam	4
8	Kothamangalam	1
9	Munnar	4
10	Marayoor	2
11	Vazhachal	2
12	Chalakydy	3
13	Malayattoor	4
14	Nilambur north	1
15	Nilambur south	1
16	Palakkad	1
17	Mannarkkad	4
18	Nemmara	3
19	Wayanad South	2
20	Wayanad North	1
21	Kannur	1
22	Kasargod	3
23	Shenduruney	2
24	Thiruvananthapuram WL	1
25	Periyar East	5
26	Idukki	1
27	Munnar WL	5
28	Parambikulam	3
29	Wayanadu WL	5
30	Peechi	1
TOTAL		75

TABLE 4.8 >> DIVISION /RANGE WISE DETAILS OF CHECK-POST

Sl. No.	Division	Range	Check-posts
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
4	Achenkovil	Achenkovil	8 Kottavasal(Achenkovil)
5	Konni	Konni	9 Athumpunkulam
		Naduvathumuzhy	10 Njanaval
			11 Padom
12	Mannarappara	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 Panamkutty
		Devikulam	23 Bodimettu
			24 Palar
10	Marayoor	Marayoor	25 Chattamunnar
		Kanthalloor	26 Pious Nagar
CENTRAL CIRCLE THRISSUR			
11	Chalakydy	Pariyaram	27 Kappathodu
		Palappilly	28 Parakadavu
		Vellikulangara	29 Mattathoor

Sl. No.	Division	Range	Check-posts	
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	Nelliyampathy	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
18	Nilambur South	Karulai	45	Cherupuzha
NORTHERN CIRCLE KANNUR				
19	Kannur	Kottiyoor	46	Iritty
20	Kasargode	Kanjangad	47	Panathur
		Kasargode	48	Thalappady
			49	Kottayadi
21	Wayanad (north)	Perya	50	Niravilpuzha
22	Wayanad (south)	Meppadi	51	Cholady
		Kalpetta	52	Lakkidy
AGASTHYAVANAM BIOLOGICAL PARK				
23	Thiruvananthapuram WL	Peppara sanctuary	53	Kanithadam
24	Shenthurney	Shenthurney WLS	54	Kattilapara
			55	Rosemala

Sl. No.	Division	Range	Check-posts
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM			
25	Periyar east	Thekkady	56 Thekkady
		Vallakkadavu	57 Pachakkanam
			58 Anathodu
			59 Vallakkadavu
		Periyar	60 Vellimala
26	Munnar WL	Eravikulam NP	61 Rajamala
		Chinnar WLS	62 Chinnar
			63 Karimutty
		Shola NP	64 Pambadum Shola
			65 Methappu
27	Idukki WL	Idukki WLS	66 Vanmavu
WILDLIFE CIRCLE PALAKKAD			
28	Wayanadu WL	Muthanga	67 Muthanga
			68 Pazhoor
		Tholpetty	69 Tholpetty
			70 Bavali
			71 Kuppadi (3 rd mile)
29	Parambikulam	Sungam	72 Anappadi
			73 Keerappadi
		Orukomban	74 Thuthanppara
30	Peechi	Chimmony	75 Echippara

CHAPTER

5

FINANCE



REVENUE AND EXPENDITURE

During 2018-19, Rs.287.20 crores was collected towards revenue and Rs.569.89 crores was the total expenditure incurred by the Forest Department.

REVENUE AND EXPENDITURE

The Forest Revenue realised during the year 2018-19 was ₹ 287.20 crores against the target of ₹ 397.67 crores. The total expenditure incurred during the year was ₹ 569.88 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 produce comes to ₹ 287.20 crores during 2018-19. Major portion of the forest revenue was from timber. During 2018-19, ₹244.38 crores was collected towards revenue from the sale of timber alone which accounted for 85.09% of the total forest revenue. The comparative position of revenue and expenditure for the year 2018-19 and 2017-18 is given in table 5.1

TABLE 5.1 >> THE COMPARATIVE POSITION OF REVENUE AND EXPENDITURE

(Amount in crores)

Financial Year	Revenue	Expenditure		
		Plan	Non Plan	Total
2018-19	287.20	171.69	398.20	569.89
2017-18	245.42	188.03	399.12	587.15

TABLE 5.2 >> REVENUE FROM TIMBER AND OTHER FOREST PRODUCE

Sl No.	Head of Account	Amount (in lakhs)
0406-01-101 SALE OF TIMBER AND OTHER FOREST PRODUCTS		
1	99 Timber	24438.24
2	98 Firewood and Charcoal	138.27
3	97 Receipts from sale of forest produce coming under the Kerala private forest (Vesting and Assignment) Act.	31.27
4	96 Receipts from forest development tax	1397.74
5	95 Receipts under Kerala Forest Produce	32.52
6	94 Other Items	191.01
TOTAL (101)		26229.05

Sl No.	Head of Account	Amount (in lakhs)
0406-01-800 OTHER RECEIPTS		
1	99 Interests on Arrears of Forest Revenue	100.15
2	98 Receipts from Wildlife Department	230.17
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	0.81
5	95 Other Items	2057.85
6	94 Livestock	0.03
7	93 Integrated Wasteland Development Programme	0.00
8	91 Receipts on account of Lapsed and Confiscated Deposits	0.00
9	90 Forest Land Lease rent	105.16
TOTAL (800)		2494.17
GRAND TOTAL		28723.22
	Refunds (0406-01-900-00)	2.38
	Net Revenue	28720.84

FOREST DEVELOPMENT TAX

Forest Development Tax 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 2018-19 an amount of ₹1397.74 lakhs was collected.

OUTSTANDING ON ACCOUNT OF FOREST REVENUE

An amount of ₹407.12 crores is outstanding on account of forest revenue at the end of the year 2018-19.

OUTLAY AND EXPENDITURE

The outlay and expenditure during 2017-18 & 2018-19 is given in Table 5.3

TABLE 5.3 >> OUTLAY AND EXPENDITURE

Schemes	2017-18		2018-19	
	Outlay	Expenditure	Outlay	Expenditure
State sector	238.40	163.25	205.75	121.41
Central sector	68.85	24.33	100.19	50.28
EAP	0.45	0.45	0.00	0.00
Total (Plan)	307.70	188.03	305.94	171.69
Non Plan	435.59	399.12	418.85	398.20
Grand Total	743.29	587.15	724.79	569.89

The plan expenditure under forestry sector during 2018-19 was ₹171.69 crores, which is 56.12% of the total plan outlay. Out of this, state sector accounted for ₹121.41 crores and the expenditure for central sector was ₹ 50.28 crores.

DEVELOPMENTS UNDER 13TH FIVE YEAR PLAN

The year 2018-19 was the second year of the 13th Five Year Plan. The target and achievements are given in Table 5.4

TABLE 5.4 >> TARGET AND ACHIEVEMENT DURING XIII FIVE YEAR PLAN (amount in crores)

Year	Target	Achievement
2017-18	307.70	188.03
2018-19	305.94	171.69

OUTLAY AND EXPENDITURE UNDER PLAN SCHEMES

During 2018-19, an expenditure of ₹17168.573 lakhs was incurred against the budget provision of ₹30593.948 lakhs. Details of budget head wise allotment and expenditure are shown in Table 5.5

TABLE 5.5 >> ACHIEVEMENTS ON PLAN SCHEMES (FINANCIAL) DURING 2018-19 (amount in lakhs)

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
A. STATE SECTOR SCHEMES			
I	MANAGEMENT OF NATURAL FORESTS		
1	Forest Protection (2406-01-101-81)	2650.000	2596.043

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
2	Forest Protection (Survey of Forest Boundaries & Forest Protection) (4406-01-101-99)	2800.000	1783.095
3	Regeneration of Denuded Forests (2406-01-101-94)	100.000	75.007
4	Non-wood forest produce including Promotion of medicinal plants (2406-01-101-80)	195.000	159.029
Sub Total		5745.000	4613.174
II IMPROVING PRODUCTIVITY OF PLANTATIONS			
1	Hard Wood Species (4406-01-105-87)(1)	650.000	459.952
2	Industrial Raw Materials (4406-01-105-87)(2)	800.000	463.357
Sub Total		1450.000	923.309
III INFRASTRUCTURE DEVELOPMENT			
1	Roads (4406-01-070-99)	500.000	288.370
2	Buildings (4406-01-070-97)	700.000	517.505
Sub Total		1200.000	805.875
IV BIO-DIVERSITY CONSERVATION AND PA MANAGEMENT			
1	Conservation of Biodiversity (2406-02-110-68)	700.000	551.545
2	Eco Development Programme (2406-02-110-56)	350.000	263.915
Sub Total		1050.000	815.460
V	ECO-TOURISM (4406-01-800-91)	935.000	657.585
VI HUMAN RESOURCE DEVELOPMENT			
1	Training (2406-01-003-97)	395.000	392.153
VII	RESOURCE PLANNING & RESEARCH (2406-01-004-92)	250.000	239.974
VIII	FOREST MANAGEMENT IS&GIS (2406-01-800-57)	150.000	146.738
IX EXTENSION COMMUNITY FORESTRY & AGRO FORESTRY (2406-01-800-55)			
1	(01) Extension Forestry	1400.000	1087.461
X	WORKS WITH ASSISTANCE FROM RIDF (4406-01-800-90)	5000.000	797.286
XI	MEASURES TO REDUCE MAN ANIMAL CONFLICT (2406-01-800-56)	2000.000	1399.348
XII	ZOOLOGICAL PARK, WILDLIFE PROTECTION AND RESEARCH CENTRE, PUTHUR (2406-02-110-48)	500.000	262.261
XIII	ZOOLOGICAL PARK WILDLIFE PROTECTION AND RESEARCH CENTRE, PUTHUR (2406-02-110-97)	500.000	0.000
TOTAL (A)		20575.000	12140.624

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
B. SCHEMES WITH CENTRAL ASSISTANCE (60% CSS)			
I SANCTUARIES			
1	Neyyar Wildlife Sanctuary (2406-02-110-39)(01)	71.270	66.059
2	Wayanad Wildlife Sanctuary (2406-02-110-39)(02)	104.680	87.566
3	Idukki Wildlife Sanctuary (2406-02-110-39)(03)	70.000	62.894
4	Peehi Vazhani Wildlife Sanctuary (2406-02-110-39)(04)	62.500	62.500
5	Wildlife Sanctuary – Peppara (2406-02-110-39)(05))	45.640	45.863
6	Wildlife Sanctuary – Schendurney (2406-02-110-39)(6)	59.790	59.099
7	Wildlife Sanctuary-Chimmony(2406-02-110-39)(7)	77.640	77.640
8	Wildlife Sanctuary – Aralam (2406-02-110-39) (8)	75.000	66.884
9	Wildlife Sanctuary – Chinnar (2406-02-110-39) (09)	67.500	53.164
10	Bird Sanctuary at Thattekkad (2406-02-110-39)(10)	52.500	44.018
11	Mangalavanam Bird Sanctuary (2406-02-110-39)(11)	35.000	6.400
12	Kurinjalama Sanctuary (2406-02-110-39)(12)	22.500	16.497
13	Chulannur Peacock Sanctuary (2406-02-110-39)(13)	30.000	12.404
14	Malabar Wildlife Sanctuary (2406-02-110-39)(14)	35.000	28.293
15	Kottiyoor Wildlife Sanctuary (2406-02-110-39)(15)	52.500	22.478
Sub Total		861.520	711.759
II NATIONAL PARKS			
1	Eravikulam National Park (2406-02-110-38)(01)	74.460	63.283
2	Silent Valley National Park (2406-02-110-38)(02)	103.160	103.160
3	Anamudi Shola National Park (2406-02-110-38)(03)	27.500	23.162
4	Mathikettan Shola National Park (2406-02-110-38)(04)	27.500	20.814
5	Pampadum Shola National Park (2406-02-110-38)(05)	28.710	27.841
Sub Total		261.330	238.260
III COMMUNITY RESERVE			
1	Integrated Development of Wildlife Habitats Management of Community Reserve (2406-02-110-37)(01)	10.580	10.580
Sub Total		10.580	10.580

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
IV	PROJECT TIGER		
1	Project Tiger Parambikulam Tiger Reserve (2406-02-110-36(01))	825.000	693.593
2	Project Tiger Parambikulam Tiger Reserve (2406-02-110-36(02))	550.000	438.178
Sub Total		1375.000	1131.771
V	PROJECT ELEPHANT (2406-02-110-35)	723.720	672.340
VI	FOREST FIRE PREVENTION MANAGEMENT SCHEME (FPMS) (2406-01-800-53)	437.500	357.359
VII	INTEGRATED DEVELOPMENT OF WILDLIFE HABITAT (PROTECTION OF WILDLIFE OUTSIDE PROTECTED AREAS (2406-02-110-52))	557.448	240.380
VIII	NILGIRI BIOSPHERE RESERVE (2406-02-110-34)	355.250	90.862
IX	AGASTHYAMALA BIOSPHERE RESERVE (2406-02-110-33)	355.250	97.559
X	WETLAND CONSERVATION (2406-02-110-32)	128.520	127.458
XI	INTEGRATED DEVELOPMENT OF WILDLIFE HABITATS TO WAYANAD WILDLIFE SANCTUARY FOR VOLUNTARY RELOCATION OF SETTLEMENTS FROM PROTECTED AREAS (2406-02-110-31)	1350.000	1350.000
XII	NATIONAL AFFORESTATION PROGRAMME (2406-01-102-86)	3602.830	0.000
TOTAL (B)		10018.948	5028.329
C. Externally Aided Project (EAP)			
1	CONSERVATION & RURAL LIVELIHOOD IMPROVEMENT PROJECT (2406-02-110-41)	0.000	0.000
TOTAL (C)		0.000	0.000
GRAND TOTAL (A + B + C)		30593.948	17168.953

OUTLAY AND EXPENDITURE UNDER NON-PLAN SCHEMES

An expenditure of ₹39820.143lakhs was incurred against the budget provision of ₹41885.360 lakhs during 2018-19 . Details on budget head wise allotment and expenditure are shown in Table 5.6

**TABLE 5.6 >> ACHIEVEMENTS ON NON-PLAN SCHEMES (FINANCIAL)
DURING 2018 -19 (amount in lakhs)**

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
I	DIRECTION & ADMINISTRATION (2406-01-001)		
1	Office of the Chief Conservator of Forests (2406-01-001-99)	1624.680	1421.716
2	Office of the Conservator of Forests (2406-01-001-98)- Circle Office	742.570	741.598
3	Working Plan & Research Circle (2406-01-001-97)	75.900	52.031
4	Vigilance & Evaluation Wing (2406-01-001-96)	1697.330	1558.801
5	District Offices (2406-01-001-95)	13371.870	13309.448
6	Statistical Cell (2406-01-001-94)	5.520	1.286
7	Timber Sales Division (2406-01-001-93)	662.680	672.872
8	FD Fund Collection of add. tax on sales of Forest Produce (2406-01-001-92)	0.010	0.000
	SUB TOTAL	18180.560	17757.752
II	EDUCATION & TRAINING (2406-01-003)		
1	Training (2406-01-003-99)	414.400	339.146
	SUB TOTAL	414.400	339.146
III	FOREST RESEARCH (2406-01-004)		
1	Forest Research & Training (2406-01-004-99)	60.980	60.193
2	Payment out of the KFDF for Forest Research (2406-01-004-95)	80.000	79.977
	SUB TOTAL	140.980	140.170
IV	SURVEY AND UTILIZATION OF FOREST RESOURCES (2406-01-005)		
1	Forest Resources Survey (2406-01-005-99)	49.450	54.296
2	Survey of Forest Boundaries (2406-01-005-98)	187.990	202.468
	SUB TOTAL	237.440	256.764
V	STATISTICS (2406-01-013)		
1	Planning & Statistical Cell (2406-01-013-99)	203.140	170.630
	SUB TOTAL	203.140	170.630

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
VI COMMUNICATION & BUILDINGS (2406-01-070)			
1	Roads & Bridges (2406-01-070-99)	56.000	19.217
2	Buildings (2406-01-070-98)	92.510	71.181
SUB TOTAL		148.510	90.398
VII FOREST CONSERVATION DEVELOPMENT & REGENERATION (2406-01-101)			
1	Forest Consolidation & Acquisition of Private Forests(2406-01-101-99)	4148.070	3926.796
2	Working Plans, Evaluation Survey, etc. (2406-01-101-98)	2.500	1.500
3	Silvicultural Works (2406-01-101-97)	8.000	7.941
4	Fire Protection Work (2406-01-101-96)	19.880	15.583
5	Compensatory Afforestation (2406-01-101-92)	10.000	1.687
6	Amount met out of KFDF for Planting Softwood Trees (2406-01-101-91)	400.000	360.483
7	Transfer to the fund for TEAK under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules,1999 (2406-01-101-90)	1028.000	908.664
8	Transfer to the fund for PULPWOOD under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules,1999 (2406-01-101-89)	480.750	393.244
9	Forest Protection (2406-01-101-81)	5005.950	4822.360
SUB TOTAL		11103.150	10438.257
VIII SOCIAL & FARM FORESTRY (2406-01-102)			
1	Plantation of fast growing species (2406-01-102-99)	424.120	382.858
2	Ecology Development World Bank Assisted Social Forestry (2406-01-102-98)	2795.030	2647.570
3	Ecology Development World Bank Assisted Social Forestry, Phase-II (2406-01-102-92)	177.920	143.192
SUB TOTAL		3397.070	3173.620
IX FOREST PRODUCES (2406-01-105)			
1	Timber & Other Produces removed by Govt. Agencies (2406-01-105-99)	2500.000	1973.226
2	Firewood & Charcoal removed by Govt. Agencies (2406-01-105-98)	10.000	1.843
3	Other Produce removed by Govt. Agencies (2406-01-105-9)	0.080	0.000

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
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)	1.150	0.230
6	Livestock (2406-01-105-94)	500.000	487.629
7	Miscellaneous Advance Suspense (2406-01-105-93)	31.630	0.000
8	Teakwood (2406-01-105-92)	1059.770	1123.525
9	Softwood (2406-01-105-91)	101.220	107.697
SUB TOTAL		4203.920	3694.150
X	OTHER EXPENDITURE (2406-01-800)		
1	Forest Publicity(2406-01-800-98)	69.900	68.062
2	Forest Protection(2406-01-800-95)	1.000	0.000
3	Intensification of Forest Management (2406-01-800-93)	390.000	221.350
4	Relief to Victims Affected by the Attack of Wild Animals (2406-01-800-92)	179.750	376.323
5	Rewards to Informants (2406-01-800-91)	0.500	0.105
SUB TOTAL		641.150	665.840
XI	WILDLIFE PRESERVATION (2406-02-110)		
1	Wildlife Preservation (2406-02-110-99)	2291.510	2201.231
2	Periyar Tiger Reserve Project (2406-02-110-93)	319.570	266.803
3	Eco-Development Global Environmental Facilities (2406-02-110-69)	102.890	91.018
4	Conservation of Bio-diversity (2406-02-110-68)	501.050	534.364
SUB TOTAL		3215.020	3093.416
XII	LEGISLATIVE ASSEMBLY CONSTITUTION -ASSET DEVELOPMENT SCHEME (4406-01-101)		
1	Projects under Legislative Assembly Constituency Asset Development Scheme (4406-01-101-97)	0.010	0.000
SUB TOTAL		0.010	0.000

Sl. No.	Scheme & Head of Account	Budget Outlay	Expenditure
1	Acquisition Charges of land notified as EFL under the Kerala Forest (Vesting & Management of EFL) Act 2003 (4406-01-102-96)	0.010	0.000
SUB TOTAL		0.010	0.000
GRAND TOTAL		41885.360	39820.143

Note: - Since the reconciliation process of the Financial Year 2018-19 was not completed, figures given in tables 5.5 and 5.6 are as per the report of Accountant General.

FUNDS RECEIVED DIRECTLY FROM GOVERNMENT OF INDIA

The scheme-wise funds received directly from Government of India and the expenditure incurred during 2018-19 is given in Table 5.7.

TABLE 5.7 >> EXPENDITURE ON FUNDS RECEIVED DIRECTLY FROM THE GOVT. OF INDIA (amount in lakhs)

Scheme	Amount Released during 2018-19	Expenditure Incurred
CAMPA	2261.00	1158.72

Note: Annual Plan of Operations (APO) for the year 2016-17 to 2018-19 were approved by Compensatory Afforestation Fund Management and Planning Authority (CAMPA) State Steering Committee meeting held on 06.02.2018 and was send to Adhoc CAMPA for release of funds. Accordingly, an amount of Rs. 22.61crore for the Financial Year 2016-17 & 2018-19 was released during 2018-19.

TABLE 5.8 >> WORK DONE DURING THE YEAR FOR OTHER GOVERNMENT DEPARTMENTS, AUTONOMOUS BODIES, LOCAL BODIES OR AGENCIES AND EXPENDITURE INCURRED (amount in lakhs)

Sl. No.	Source	Beneficiary Circle / Division	Purpose	Expenditure
1	Petronet LNG Ltd	Social Forestry Ernakulam	Mangrove Afforestation	2.18
2	Petronet Ltd	Social Forestry Palakkad	Fixing Bamboo Tree Guards	4.55



FOREST OFFENCES



KERALA FOREST ACT, 1961 & WILD LIFE PROTECTION ACT, 1972

TABLE 6.1 >> ABSTRACT OF NUMBER OF CASES BOOKED

Cases	Upto 2018	During 2019	Total upto 2019
Under Kerala Forest Act	37117	404	37521
Under Wildlife Protection Act	3050	238	3288
61 A Cases	2074	46	2120
Other Acts	4661	150	4811
TOTAL	46902	838	47740

TABLE 6.2 >> CIRCLE WISE NUMBER OF CASES DISPOSED

Sl. No.	Circle	Disposed upto 2018	Disposed during 2019	Disposed upto 2019
1	Southern Circle, Kollam	1585	11	1596
2	High Range Circle, Kottayam	3384	25	3409
3	Central Circle, Thrissur	1414	13	1427
4	Eastern Circle, Palakkad	6077	38	6115
5	Northern Circle, Kannur	1845	29	1874
6	ABP, Thiruvananthapuram	54	1	55
7	FDPT, Kottayam	264	1	265
8	WL, Palakkad	440	7	447
	TOTAL	15063	125	15188

TABLE 6.3 >> CIRCLE WISE CASES CHARGED IN THE COURT

Sl. No.	Circle	No. of Cases upto 2018	No. of Cases during 2019	No. of Cases upto 2019
1	Southern Circle, Kollam	1139	6	1145
2	High Range Circle, Kottayam	17605	34	17639
3	Central Circle, Thrissur	1428	36	1464
4	Eastern Circle, Palakkad	3413	25	3438
5	Northern Circle, Kannur	2137	31	2168
6	ABP, Thiruvananthapuram	145	0	145
7	FDPT, Kottayam	650	5	655
8	WL, Palakkad	408	1	409
TOTAL		26925	138	27063

TABLE 6.4 >> CIRCLE WISE CASES PENDING WITH DEPARTMENT

Sl. No.	Circle	No. of Cases upto 2018	No. of Cases during 2019	No. of Cases upto 2019
1	Southern Circle, Kollam	1400	39	1439
2	High Range Circle, Kottayam	3135	110	3245
3	Central Circle, Thrissur	1091	110	1201
4	Eastern Circle, Palakkad	2404	110	2514
5	Northern Circle, Kannur	1198	117	1315
6	ABP, Thiruvananthapuram	65	1	66
7	FDPT, Kottayam	404	9	413
8	WL, Palakkad	263	41	304
TOTAL		9960	537	10497

TABLE 6.5 >> CIRCLE WISE NUMBER OF CASES BOOKED UNDER VARIOUS ACTS

Sl. No.	Circle	Under KF Act upto 2018	KF Act during 2019	KF Act at the end of 2019	Under WLP Act upto 2018	WLP Act during 2019	WLP Act at the end of 2019	Other Acts upto 2018	Other Acts during 2019	Other Act at the end of 2019	No. of 61A cases upto 2018	61 A cases during 2019	61 A cases at the end of 2019
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	SC, Kollam	3239	37	3276	559	24	583	213	2	215	136	1	137
2	HRC, Kottayam	15307	77	15384	350	33	383	2780	62	2842	580	7	587
3	CC, Thrissur	3021	63	3084	604	55	659	175	39	214	134	6	140
4	EC, Palakkad	9993	96	10089	585	51	636	880	20	900	427	11	438
5	NC, Kannur	3381	84	3465	594	49	643	510	26	536	733	19	752
6	ABP, Thiruvananthapuram	201	2	203	53	0	53	7	0	7	2	1	3
7	FDPT, Kottayam	1158	10	1168	111	4	115	28	0	28	20	1	21
8	WL, Palakkad	817	35	852	194	22	216	68	1	69	42	0	42
TOTAL		37117	404	37521	3050	238	3288	4661	150	4811	2074	46	2120

CHAPTER

7

**WILDLIFE
CONSERVATION**



WILDLIFE SANCTUARIES & NATIONAL PARKS

During the year 2018-19, Kerala has 3213.237km² of forests under protected area which include 6 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.

TABLE 7.1

LIST OF WILDLIFE SANCTUARIES, NATIONAL PARKS,
COMMUNITY RESERVES AND BIOSPHERE RESERVES

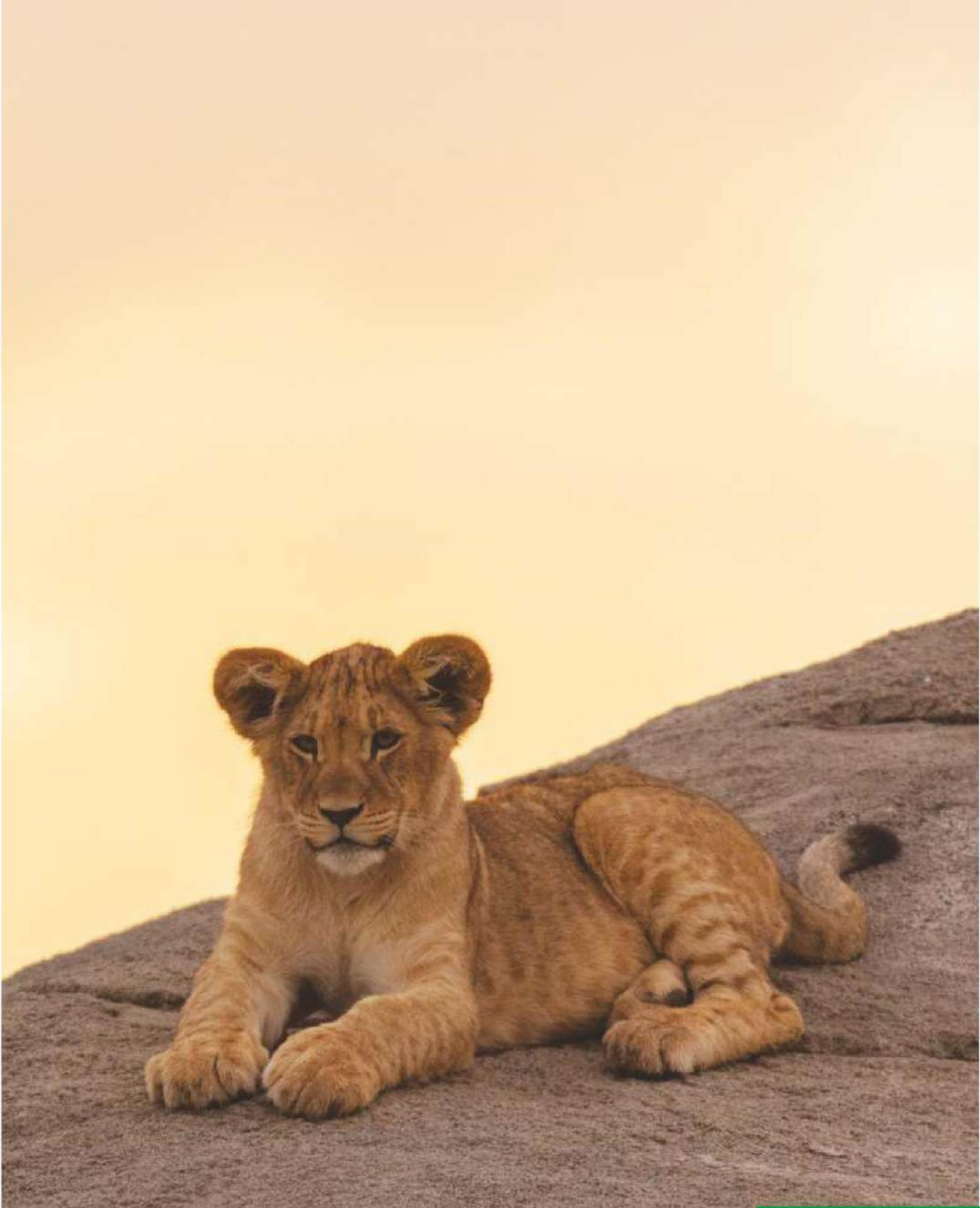
SL. No.	Name	Area (km ²)	Year of formation
NATIONAL PARKS			
1	Eravikulam National Park	97.000	1978
2	Periyar National Park**	350.00	1982
3	Silent Valley National Park *	237.520	1984
4	Anamudi Shola National Park	7.500	2003
5	Mathikettan Shola National Park	12.817	2003
6	Pambadum Shola National Park	1.318	2003
WILDLIFE SANCTUARIES			
1	Periyar WLS (Tiger Reserve) **	925.000	1950
2	Neyyar Wildlife Sanctuary	128.000	1958
3	Peechi - Vazhani Wildlife Sanctuary	125.000	1958
4	Parambikulam WLS (Tiger Reserve) ***	643.660	1973
5	Wayanad Wildlife Sanctuary	344.440	1973
6	Idukki Wildlife Sanctuary	70.000	1976
7	Peppara Wildlife Sanctuary	53.000	1983
8	Thattekkad Bird Sanctuary	25.000	1983
9	Shenduruney Wildlife Sanctuary	171.000	1984
10	Chinnar Wildlife Sanctuary	90.440	1984
11	Chimmony Wildlife Sanctuary	85.000	1984
12	Aralam Wildlife Sanctuary	55.000	1984
13	Mangalavanam Bird Sanctuary	0.027	2004
14	Kurinjimala Sanctuary	32.000	2006
15	Choolannur Pea Fowl Sanctuary	3.420	2007
16	Malabar Sanctuary ****	74.215	2009
17	Kottiyoor Wildlife Sanctuary	30.380	2011
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 Goodricol range.

*** Includes core or critical tiger habitat (390.89 km²) & buffer zone (252.77 km²).

**** These areas are under the administrative control of Divisional Forest Officer, Kozhikode.



WILDLIFE SANCTUARIES & NATIONAL PARKS IN KERALA

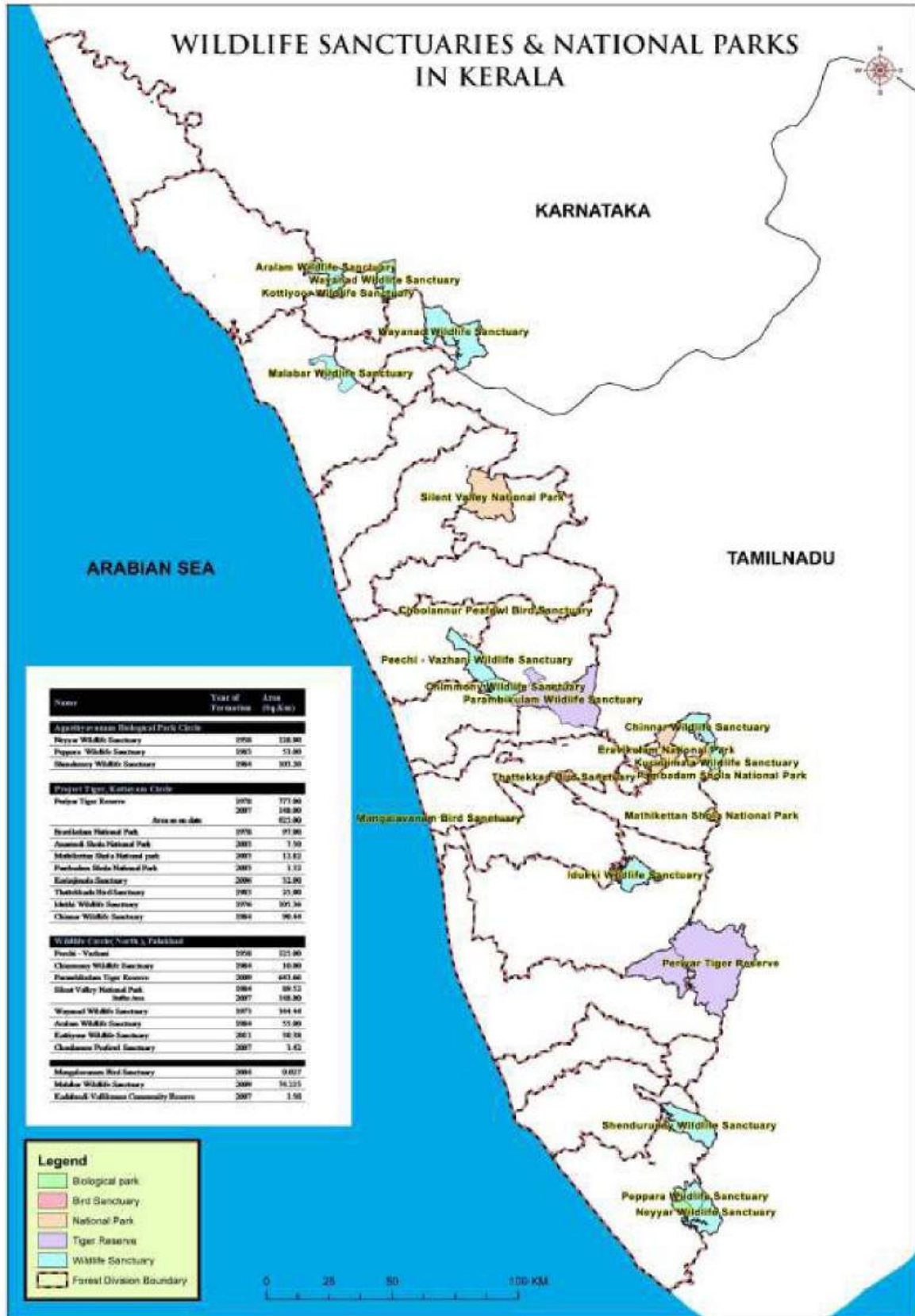


TABLE 7.2		STATUS OF MANAGEMENT PLAN	
Sl. No.	Name	Area (km ²)	Status
1	Eravikulam National Park	97.000	Valid upto 03.2022
2	Silent valley National Park	237.520	Valid upto 03.2022
3	Anamudi Shola National Park	7.500	Valid upto 03.2020
4	Mathikettan Shola National Park	12.817	Valid upto 03.2020
5	Pambadum Shola National Park	1.318	Valid upto 03.2020
6	Periyar Tiger Reserve	925.000	Valid upto 03.2022
7	Neyyar Wildlife Sanctuary	128.000	Valid upto 03.2022
8	Peechi - Vazhani Wildlife Sanctuary	125.000	Valid upto 03.2022
9	Parambikulam Tiger Reserve	643.660	Valid upto 03.2021
10	Wayanad Wildlife Sanctuary	344.440	Valid upto 03.2022
11	Idukki Wildlife Sanctuary	70.000	Valid upto 03.2022
12	Peppara Wildlife Sanctuary	53.000	Valid upto 03.2022
13	Thattekkad Bird Sanctuary	25.000	Valid upto 03.2022
14	Shenduruney Wildlife Sanctuary	171.000	Valid upto 03.2022
15	Chinnar Wildlife Sanctuary	90.440	Valid upto 03.2022
16	Chimmony Wildlife Sanctuary	85.000	Valid upto 03.2022
17	Aralam Wildlife Sanctuary	55.000	Valid upto 03.2022
18	Mangalavanam Bird Sanctuary	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		3213.237	



DETAILS OF HUMAN-WILDLIFE CONFLICT INCIDENTS

A total of 7890 Human Wildlife conflict incidents have reported in Kerala during 2018-19.

TABLE 7.3		DETAILS OF HUMAN-WILDLIFE CONFLICT INCIDENTS						
Incidents	Snake	Elephant	Wild Boar	Wild Gaur	Tiger	Leopard	Others	Total
Human Death	123	17	5	0	0	0	1	146
Human injured	541	46	169	1	0	0	8	765
Cattle Death	11	29	24	3	125	104	52	348
Crop damage & Property loss	0	4063	1230	52	0	0	1286	6631
TOTAL	675	4155	1428	56	125	104	1347	7890

MAJOR PREVENTIVE STRUCTURES

Details of the major preventive structures constructed to mitigate human-wildlife conflict as on 31.03.2019



TABLE 7.4

DETAILS OF THE MAJOR PREVENTIVE STRUCTURES
CONSTRUCTED TO MITIGATE HUMAN-WILDLIFE CONFLICT

Circle	Solar Power fencing (km)	Elephant proof trench (km)	Elephant proof wall (km)	Stone pitched trench (km)	Bio fence (km)	Kayyala (km)	Others
SC, Kollam	84.15	2.15	0.00	0.00	0.00	0.00	0.00
HRC, Kottayam	51.35	0.00	0.00	0.00	0.00	0.00	1.00
CC, Thrissur	199.43	7.20	0.00	0.00	0.00	0.00	0.00
EC, Palakkad	73.43	0.86	0.00	0.00	0.00	158.76	0.00
NC, Kannur	361.50	132.00	22.45	0.26	0.00	5.12	0.50
ABP, Tvpm	0.00	0.56	0.00	0.00	0.00	0.00	0.00
FD-PT, Ktym	9.50	0.90	0.23	0.00	0.00	0.58	0.00
WL, Palakkad	19.00	3.85	0.00	0.00	0.00	0.00	0.30
TOTAL	798.36	147.52	22.68	0.26	0.00	164.46	1.80

COMPENSATION PAID TO VICTIMS OF WILDLIFE ATTACK

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 2018-19, a total of ₹ 1115.03 lakhs have been distributed to the victims.

TABLE 7.5

COMPENSATION PAID TO VICTIMS OF WILDLIFE
ATTACK DURING 2018-19

Circle	Human death		Human injured		Cattle loss		Crop damage & Property loss		Grand total	
	No. of applicants	Amount Paid (in lakhs)	No. of applicants	Amount Paid (in lakhs)	No. of applicants	Amount Paid (in lakhs)	No. of applicants	Amount Paid (in lakhs)	No. of applicants	Amount Paid (in lakhs)
SC, Kollam	24	46.00	142	37.86	49	9.81	522	39.73	737	133.40
HRC, Kottayam	13	42.06	56	16.80	13	1.06	338	33.77	420	93.69
CC, Thrissur	15	20.10	121	49.06	38	5.53	219	24.28	393	98.97
EC, Palakkad	62	94.50	145	56.39	64	12.5	1169	122.13	1440	285.52
NC, Kannur	10	30.00	204	94.28	96	26.55	3241	212.99	3551	363.82
ABP, Tvpm	0	0	2	0.23	0	0	51	4.29	53	4.52
FD-PT, Kottayam	4	0	6	0.94	2	0.58	48	3.75	60	5.27
WL, Palakkad	2	10.00	7	2.87	117	32.36	1345	84.61	1471	129.84
TOTAL	130	242.66	683	258.43	379	88.39	6933	525.55	8125	1115.03

RAPID RESPONSE TEAM (RRT)

As per G.O (Rt) 275/11/F&WLD dated: 22-06-2011, Government established Rapid Response Team to drive back the crop raiding wild elephants and to manage other problems relating to human-animal conflict.

TABLE 7.6

DETAILS OF RAPID RESPONSE TEAMS DURING 2018-19

Sl. No.	Location	Head Quarter	Territorial / Wildlife division to which the team is attached	Range Officer in charge of the team	Contact Number	
					Mobile	Office
1	Sulthan Batheri	Sulthan Batheri	Wayanad WL	Assistant WLW, Sulthan Batheri	8547603486	0493-6221640
2	Kannur	Thaliparamba	Kannur	Range Officer, Thaliparamba	8547602678	0460-2206696

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

*Under Malayattoor division one 'Special Forest Protection Force' (SFPF) is functioning and which carried out the functions of Rapid Response Team.

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

TABLE 7.7		SPECIES WISE POPULATION OF ANIMALS			
Sl. No.	Species	No. of animals (1993)	No. of animals (1997)	No. of animals (2002)	No. of animals (2011)
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 and the new census is also in progress.

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 190 from the population of 136 in 2014. 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 below.

TABLE 7.8		TIGER CENSUS				
Year	1997	2002	2006	2010	2014	2018
Number	73	71	46	71	136	190

ELEPHANT CENSUS

In Kerala, All India Synchronized Elephant Population Estimation was carried out during 2017 with the active participation and involvement of Periyar and Parambikulam Tiger Foundation and Kerala Forest Research Institute. The estimated number of elephant in Kerala during 2017 is 5706 which is pending for approval from MoEF. The density was estimated to be 0.59/km².

The estimated number of elephants from dung count method during 2017 along with the estimated elephant populations during previous estimation are given below

TABLE 7.9		NUMBER OF ELEPHANTS FROM DUNG COUNT METHOD									
Elephant Reserve	2005		2007		2010		2012		2017**		
	No.	Sex-ratio*	No.	Sex-ratio*	No.	Sex-ratio*	No.	Sex-ratio*	No.	Sex-ratio*	
Wayanad	882	1:2.60	1240	1:1.95	1155	1:1.90	1483	1:2.24	5706	1:1.51	
Nilambur	334	1:1.23	663	1:1.44	1044	1:1.30	647	1:1.15			
Anamudi	2299	1:4.69	2505	1:4.52	2220	1:2.10	2086	1:4.98			
Periyar	1620	1:3.93	1660	1:2.87	1758	1:1.3	1810	1:2.30			
TOTAL	5135	1:3.38	6068	1:2.96	6177	1:1.68	6026	1:2.71	5706	1:1.51	

Source: Elephant Population Estimation 2012- Kerala

*Sex-ratio (Male to female in adult population)

**2017 -awaiting approval from Project Elephant, MoEF&CC

CAPTIVE ELEPHANTS

Provisions of Wildlife (Protection) Act, 1972 and the Kerala Captive Elephant (Management & Maintenance) Rules, 2012 have strictly implemented in the State. State level task force, in which Addl. Principal Chief Conservator of Forests (Biodiversity Cell) is the convenor and district level task force on Captive Elephants have been constituted vide G.O (Ms) No.03/2015/F&WLD dated 17.01.2015 for ensuring welfare of Captive Elephants. So far, 430 owners and 2842 mahouts have been trained by Kerala Forest Department.

Total number of captive elephants in the state is 515. Out of this, 476 elephants are privately owned and 39 elephants are owned by the department. The number private and department owned elephants implanted with microchip are 476 and 36 respectively. During the report year, twenty six deaths of captive elephants are reported in the State.



TABLE 7.10		DETAILS OF CAPTIVE ELEPHANTS AS ON 31.03.2019			
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
476	36	0	3	26	0

TABLE 7.11		DIVISION WISE NUMBER OF DEPARTMENT ELEPHANTS	
Sl. No.	Division	Number of elephants	
1	Konni	6	
2	Malayattoor	6	
3	Thiruvananthapuram Wildlife	18	
4	Wayanad Wildlife	9	
TOTAL		39	

TABLE 7.12		DETAILS OF DEPARTMENTAL ELEPHANTS IMPLANTED WITH MICRO-CHIP			
Division	Sl. No	Elephant	Micro-chip number	Age	Sex
Konni	1	Priyadarshini	00065EA5AF	36	Female
	2	Meena	000658C223	29	Female
	3	Eva	00065DC7E0	18	Female
	4	Moni	00065EBD04	73	Male
	5	Krishna	000658DD68	7	Male
	6	Pinchu		3	Female

Division	Sl. No	Elephant	Micro-chip number	Age	Sex
Malayattoor	7	Sunitha	00065EAE98	49	Female
	8	Asha	000658E6DD	16	Female
	9	Parvathy	00065EB28E	14	Female
	10	Anjana	00065EA472	14	Female
	11	HariPrasad	961001000003890	45	Male
	12	Chandu	00065ECB	42	Male
Thiruvananthapuram (WL)	13	Soman	00065DB7BJ	77	Male
	14	Chandranath	0006E14CA5E	28	Male
	15	Jayasree	00065DA371	48	Female
	16	Ammu	00065D95E5	18	Female
	17	Minna	000658BFCE	17.5	Female
	18	Rajkumar	00065EB67D	41	Male
	19	Agasthyan	000658C214	6	Male
	20	Raja	00065DC227	6	Male
	21	Rana	00065EAD23	6	Male
	22	Sundari	00065D78F0	9	Female
	23	Unnikrishnan	000658BAD6	20.5	Male
Thiruvananthapuram (WL)	24	Harikrishnan	0006435937	27	Male
	25	Kannan	00065E9E8C	1.9	Male
	26	Podichi	00065ED152	3	Female
	27	Arjun	000658D973	3	Male
	28	Poorna	00065EB6C6	3	Female
	29	Manu	00065EBF4D	2	Male
	30	Maya	00065D7A6E	4	Female
	31	Surendran	00065D7F6D	21	Male
	32	Neelakandan	00065EA6E9	23	Male
	Wayanad WL	33	Kunju	000658EF9E	31
34		Pramukha		42	Male
35		Ammu	00065EB384	5	Female
36		Chandru	00065ECF0B	4	Male
	37	Siva		2	Male
	38	Bharath	00065EC8A5	57	Male
	39	Sooryan	00065DAEE3	23	Male

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 Tamilnadu. 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 ARE GIVEN BELOW.

TABLE 7.13		ESTIMATED POPULATION OF NILGIRI TAHR (2008 TO 2016)									
Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Population	743	747	776	831	789	873	894	900	1420	Estimation conducted report awaited	

TABLE 7.14		ESTIMATED POPULATION OF NILGIRI TAHR IN DIFFERENT LANDSCAPES	
Sl. No.	Landscape	Number of Nilagiri tahr	
1	Thiruvananthapuram	173	
2	Periyar	19	
3	Munnar (Except Eravikulam National Park)	425	
4	Parambikulam	25	
5	Silent Valley	114	
Population estimation for Eravikulam National Park alone		664	
Total number of individuals estimated in Kerala		1420	

Source: Population Estimation of Nilagiri thar in Kerala-2016

ELEPHANT CORRIDORS

TABLE 7.15		LIST OF ELEPHANT CORRIDORS				
Name of the corridor	Area	Forest type	Legal status	Major land use	Habitations in corridor	Villages dependent on corridors
Nilambur Kovilakom –New Amarambalam (Vazhikkadavu) Nilambur North Division	Length: 1 km Width: 0.5 km	Tropical Semi evergreen	RF	Forest & plantation	Nil	Vazhikkadavu & Karakkodu
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
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
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

WILD ANIMALS RESCUED

During the year 2018-19, 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 wild animals rescued are given below.

TABLE 7.16

DETAILS OF WILD ANIMALS RESCUED

Sl. No.	Name of Animals	Number
1	Python	2891
2	Spectacled Cobra (Indian Cobra)	2118
3	Monkey	338
4	Other Snakes	1261
5	Wild boar	86
6	Viper	471
7	Asian Palm Civet	92
8	Parrot	165
9	Ratsnake	230
10	Other Animals	517
11	Krait	114
12	King Cobra	85
13	Other Birds	369
14	Elephant	23
15	Jungle Cat	29
16	Peacock	92
17	Sand Boa	572
18	Wild Porcupines	78
19	Fox	42
20	Eagle	39
21	Toady Cat	120
22	Sambar Deer	16
23	Tortoise	29
24	Grey Hornbill	1
25	Leopard	2
26	Tiger	1
27	Monitor lizard	62
28	Spotted deer	31

Sl. No.	Name of Animals	Number
29	Barking deer	12
30	Crane	7
31	Wolf	9
32	Indian Pangolin	2
33	Mongoose	11
34	Mouse deer	13
TOTAL		9928





CHAPTER

8

**OTHER VITAL INFORMATION
ON FORESTRY**

A close-up photograph of a person wearing a traditional woven hat, likely made of palm leaves or similar natural materials. The hat is dark brown and has a textured, woven pattern. The person is wearing a green and purple patterned garment. The background is a blurred green forest. A dark green semi-transparent box is overlaid on the bottom right of the image, containing text.

FOREST FIRE STATISTICS

During 2018-19, 434 fire incidents are reported which leads to the destruction of 1737.394 Ha of forest area causing financial loss of Rs.153015/-

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 31.03.2019 is given below.

TABLE 8.1 >> STATUS OF WORKING PLAN ON 31.03.2019

Sl. No.	Division	Valid up to	Status
DIVISIONS WHERE APPROVED WORKING PLAN OR MANAGEMENT PLAN IS AVAILABLE			
1	Thiruvananthapuram	31.03.2018	New WP under preparation
2	Thenmala	31.03.2019	New WP under preparation
3	Achenkoil	31.03.2018	New WP under preparation
4	Ranni	31.03.2024	Working Plan is current
5	Punalur	31.03.2021	Working Plan is current
6	Konni	31.03.2025	Working Plan is current
7	Kothamangalam	31.03.2026	Working Plan is current
8	Munnar	31.03.2020	Working Plan is current
9	Marayoor	31.03.2020	Working Plan is current
10	Mankulam	31.03.2022	Working Plan is current.
11	Kottayam	31.03.2027	Working Plan is current
12	Vazhachal	31.03.2014	New WP under preparation
13	Chalakkudy	31.03.2015	New WP under preparation
14	Malayattoor	31.03.2025	Working Plan is current
15	Thrissur	31.03.2024	Working Plan is current
16	Mannarkkad	31.03.2022	Working Plan is current
17	Nilambur (North)	31.03.2025	Working Plan is current
18	Nilambur (South)	31.03.2024	Working Plan is current.
19	Palakkad	31.03.2019	New WP under preparation.
20	Nenmara	31.03.2025	Working Plan is current
21	Kozhikkode	31.03.2021	Working Plan is current
22	Wayanad(North)	31.03.2025	Working Plan is current
23	Wayanad(South)	31.03.2022	Working Plan is current
24	Kannur	31.03.2023	Working Plan is current.
25	Kasargod	31.03.2028	Working Plan is current

FOREST FIRE STATISTICS

During the year 2018-2019 a total of 434 number of incidents relating to forest fire have been reported amounting for a total destruction of 1737.394 Ha. of forest area causing financial loss of ₹ 1,53,015/-. Details of forest fire incidents are given in below tables

TABLE 8.2 >> DETAILS OF DIVISION WISE FOREST FIRE INCIDENTS

Sl. No.	Name of division	No. of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
TERRITORIAL DIVISION				
1	Thiruvananthapuram	12	0.2023	0
2	Thenmala	11	14.340	0
3	Punalur	7	14.100	21000
4	Konni	4	11.500	0
5	Achenkovil	5	13.000	64815
6	Ranni	9	41.620	0
7	Kottayam	23	43.650	0
8	Marayoor	28	74.607	0
9	Kothamangalam	13	17.400	0
10	Munnar	9	24.040	0
11	Mankulam	1	0.200	0
12	Malayattoor	20	37.710	0
13	Chalakydy	11	23.510	0
14	Thrissur	26	149.590	23000
15	Nenmara	10	37.970	11200
16	Palakkad	36	65.330	6500
17	Mannarkad	3	485.734	9300
18	Nilambur south	21	51.25	0
19	Nilambur north	47	110.250	800
20	Kozhikode	5	2.811	0
21	Kannur	1	0.670	250
22	Wayanad south	20	85.600	0
23	Wayanad north	14	35.521	900
24	Kasargod	1	24.819	15250
TOTAL		337	1365.424	153015
WILDLIFE DIVISION				
25	Thiruvananthapuram WL	7	12.130	0
26	Periyar East	8	21.530	0
27	Periyar West	2	6.000	0
28	Munnar Wildlife	2	97.500	0

Sl. No.	Name of division	No. of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
29	Idukki Wildlife	11	26.500	0
30	Peechi Wildlife	26	52.750	0
31	Silent Valley National Park	20	100.920	0
32	Aaralam	1	0.080	
33	Wayanad Wildlife	20	54.560	0
TOTAL		97	371.97	0
GRAND TOTAL		434	1737.394	153015



TABLE 8.3 >> DETAILS OF FIRE INCIDENTS

Year	Number of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
2014-2015	339	1696.419	111175
2015-2016	502	1975.370	25420
2016-2017	716	3290.200	295836
2017-2018	314	1114.814	53100
2018-2019	434	1737.394	153015

FIRE PROTECTION MEASURES

Protection of the forests from fire was carried out mainly by undertaking fire lines and engaging fire protection watchers. During 2018-19, 6873.313 km length of fire line were maintained and 158661 numbers of fire watchers engaged and 2151.95 lakhs was expended for this activity.

**TABLE 8.4 >> DETAILS OF FIRE PROTECTION MEASURES
TAKEN UP DURING 2018-19**

Sl. No.	Name of division	Length of fire line (km)	No. of fire watchers engaged (man days)	Expenditure (amount in rupees)
TERRITORIAL DIVISION				
1	Thiruvananthapuram	565.592	3747	18672450
2	Thenmala	434.852	3682	10941000
3	Punalur	506.719	1839	12554500
4	Konni	400.170	7191	4766695
5	Ranni	433.500	9654	9163000
6	Achencovil	322.295	3180	7170443
7	Kottayam	168.700	1186	8368342
8	Marayoor	29.170	2655	2221587
9	Kothamangalam	102.35	2340	300500
10	Munnar	148.25	3977	5692319
11	Mankulam	79.660	1719	2679145
12	Malayattoor	184.100	2835	5296542
13	Vazhachal	190.000	899	2459072
14	Chalakyudy	100.900	3844	4659377
15	Thrissur	183.155	7577	4296833
16	Nenmara	130.72	5665	2883580
17	Palakkad	178.300	4320	6416000
18	Mannarkad	81.700	828	2185000
19	Nilambur south	180.260	2920	5758429
20	Nilambur north	170.600	5850	7722000
21	Kozhikode	41.600	5298	3225152
22	Kannur	13.000	5744	4010000
23	Wayanad south	142.660	7510	7821488
24	Wayanad north	225.330	7903	11108842
25	Kasargod	122.000	3053	4984450
TOTAL		5135.583	105416	155356746
WILDLIFE DIVISION				
26	Thiruvananthapuram WL	169.83	5897	7143000
27	Shenduruney	146.000	2143	4360000
28	Periyar East	226.600	9026	4418476

Sl. No.	Name of division	Length of fire line (km)	No. of fire watchers engaged (man days)	Expenditure (amount in rupees)
29	Periyar West	132.800	4524	2850120
30	Munnar WL	185.98	11584	9233967
31	Idukki WL	134.640	4992	6575715
32	Peechi WL	165.000	1329	5543000
33	Parambikkulam TR	230.000	3019	6864543
34	Silent valley NP	81.32	2659	3797549
35	Wayanad WL	198.56	6239	7381022
36	Aralam	67.000	1833	1671208
TOTAL		1737.730	53245	59838600
GRAND TOTAL		6873.313	158661	215195346

SEEDLINGS

78.15 lakh of valuable seedlings have been distributed to public and departmental planting.



TABLE 8.5 >> TABLE 8.5 SPECIES WISE NUMBER OF SEEDLINGS RAISED (in lakhs)

Division	Teak	Mahagony	Sandal wood	Medicinal plants	Flowering Species	Fruit Bearing Specs	Other HW	Bamboo	Misc.	Total
Thiruvananthapuram	1.42	0.21	0.02	0.69	0.15	3.10	0.45	0	0	6.04
Kollam	1.20	0.61	0	0.84	0.43	1.4	0.36	0.28	0	5.12
Pathanamthitta	1.20	0.39	0.07	0.27	0.07	2.67	0.96	0.17	0	5.80
Alappauzha	0.60	0.20	0	0.93	0.15	3.15	2.06	0.2	0.75	8.04
Kottayam	0.75	1.11	0.04	1.46	0.88	2.14	1.74	0.14	0.16	8.42
Idukki	0.36	0.18	0.23	0.24	0.52	1.76	1.36	0.09	.02	4.76
Ernakulam	0.67	0.27	0.08	1.72	0.38	3.61	0.81	0.18	0.25	7.97
Thrissur	0.63	1.45	0	0.99	0.22	2.02	1.46	0	0	6.77
Palakkad	0.29	0.91	0.25	0.14	0.41	1.74	0.84	0	0	4.58
NSC Kalady	0	0.08	0.06	0.08	0.05	0.61	0.02	0.1	0	1.0
Malappuram	0	0.98	0	0.70	0.56	1.54	0.77	0.2	0.1	4.85
Wayanad	0.01	0.81	0	0.34	0.33	1.16	0.44	0.11	0	3.2
Kozhikkode	0	0.33	0.07	0.88	0.37	1.99	1.18	0.04	0.05	4.91
Kannur	0.03	0.27	0	0.81	0.71	1.80	1.28	0.01	0.15	5.06
Kasaragode	0.16	0.09	0	0.53	0.49	1.84	0.56	0.12	0.70	4.49
TOTAL	7.32	7.89	0.82	10.62	5.72	30.53	14.29	1.64	2.18	81.01

PARTICIPATORY FOREST MANAGEMENT

The State has adopted participatory forest management 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. Those in Sanctuaries and National Parks are called Eco- Development Committees. During the year 2018-19, there were 400 numbers of VSS's and 190 numbers of EDC's.

TABLE 8.6 >> DIVISION WISE NUMBER OF VANA SAMRAKSHANA SAMITHIES (VSS)

Sl. No.	Territorial Division	No. of Vana Samrakshana Samithies
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 ECO-DEVELOPMENT COMMITTEES (EDC)

Sl. No.	Wildlife Division	No. of Eco-Development Committees
1	Parambikulam	7
2	Aralam	3
3	Silent Valley	7

Sl. No.	Wildlife Division	No. of Eco-Development Committees
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 VANA SAMRAKSHANA SAMITHIES

Sl. No.	Territorial Division	No. of VSS	Forest area under VSS (Ha)	No. of families		
				SC	ST	Others
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	Chalakudy	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
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 ECO-DEVELOPMENT COMMITTEES

Sl. No.	Wildlife Division	No. of EDC	Forest area under EDC (Ha)	No. of families		
				SC	ST	Others
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 ECO SHOPS

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 vana samrakshana samithies.

The public will also be getting unadulterated and genuine forest products from these outlets. There are 36 vanasree ecoshops in the State under Forest Development Agencies (FDA) including 2 mobile units.

TABLE 8.10 >> DIVISION WISE LOCATION OF VANASREE ECO-SHOPS

Sl. No.	Division	Name of Vanasree unit
1	Thiruvananthapuram	Ecoshop (Hqrs) Thiruvananthapuram
2	Thiruvananthapuram WL	Neyyar
3	Thiruvananthapuram WL	Kottoor

Sl. No.	Division	Name of Vanasree unit
4	Thiruvananthapuram WL	Peppara
5	Achenkovil	Achenkovil
6	Thenmala	Palaruvi
7	Punalur	Ayur
8	Konni	Konni
9	Ranni	Angamuzhy
10	SF, Alappuzha	Kommadi
11	Malayattoor	Kodanad
12	Kothamangalam	Thommankuthu
13	Malayattoor	Mobile Vanasree Unit
14	Chalakyudy	Chalakyudy
15	Vazhachal	Athirappally
16	Vazhachal	Vazhachal
17	Munnar Wildlife	5 th Mile
18	Munnar Wildlife	Karimutty
19	Munnar Wildlife	Tahr No. 1
20	Munnar Wildlife	Lakkam
21	Munnar Wildlife	Pambadum Schola
22	Parambikulam, Wildlife	Parambikulam
23	Parambikulam, Wildlife	Anappady
24	Silent Valley National Park	Mukkali
25	North Wayanad	Mananthavady
26	Nilambur North	Aruvakode
27	Nilambur South	Nedumgayam (Manjeri)
28	Wayanad Wildlife	Muthanga
29	Wayanad Wildlife	Begur
30	Wayanad wildlife	Tholpetty
31	Marayoor	Marayoor
32	Marayoor	Anakottappara - Kanthalloor
33	Schenduruny Wildlife	Schendurney FIC
34	Schenduruny Wildlife	Thenmala
35	Thiruvananthapuram	Mobile Vanasree unit
36	Kannur	Nedumpoyil

ECO-TOURISM DESTINATIONS

The eco-tourism in forest areas is implemented through forest development agencies. There are 60 eco-tourism destinations functioning in the State.

TABLE 8.11 >>DISTRICT WISE NUMBER OF ECO-TOURISM WILDLIFE SANCTUARIES AND NATIONAL PARK DESTINATIONS

Sl. No.	District	No. of destination
1	Thiruvananthapuram	6
2	Kollam	3
3	Pathanamthitta	5
4	Alappuzha	0
5	Idukki	9
6	Kottayam	2
7	Ernakulam	3
8	Thrissur	2
9	Palakkad	6
10	Malappuram	3
11	Kozhikkode	5
12	Wayanad	12
13	Kannur	3
14	Kasaragode	1
TOTAL		60

TABLE 8.12 >> DETAILS OF ECOTOURISM, WILDLIFE SANCTUARIES & NATIONAL PARK DESTINATIONS IN KERALA

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
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 Thiruvananthapuram	A/c & Non-A/c cottages available, Kappukadu Erappupara-Mankode trekking, Kappukadu-Erappupara-Kizhakkumalappara trekking, Kappukadu-Kathirumudi trekking, Kappukadu-Kattadikkunnu trekking,	Entrance fee- Rs.35/- per Indian adult, Rs.20/- per Indian child, Rs.80/- per foreigner adult, Rs.45/- per foreigner child, Rowing in the lake- Rs.400/- per 4 indians, Rs.600/- per 4 foreigners, Bamboo rafting - Rs.100/- per indian, Rs.250/- 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.3500/- per 10 foreigners, Kappukadu-Kathirumudi trekking- Rs.3000/- per 10 indians, Rs.5000/- per 10 foreigners,	Deputy wadren, Kottoor- 8547602969

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
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 / Lion Safari - Rs.395/- per Indian adult, Rs.200/- per Indian child, Rs.555/- per foreigner adult, Rs.315/- per foreigner child, Bus safari _ Rs.160/- per Indian adult, Rs.80/- per Indian child, Rs.315/- per foreigner adult, Rs.200/- per foreigner child, Agasthya ecotourism centre -Rs.20/- per Indian adult, Rs.10/- per Indian child, Rs.35/- per foreigner adult, Rs.30/- per foreigner child, Boat jumbo safari _ Rs.500/- per indian, Rs.750/- per foreigner, Kombai cruise -Rs.4750/- for 5 Indians, Rs.6750/- for 5 foreigners, Meenmutty Camp _ Rs.5250/- for 5 Indians, Rs.7750/- for 5 foreigners, Kombai camp - Rs.4750/- for 5 Indians, Rs.6750/- for 5 foreigners,	Asst.wildlife warden,Neyyar-8547602970
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	Vazhuvanthol falls visit - Rs. 1000/- for 10 persons (Indian child and adult) Rs. 2000/- for 10 persons (Foreign child and adult) Agasthyarkoodam trekking _ Season - Rs.5000/- for 5 Indians, Rs.10000/- for 5 foreigners. Off season - Rs.2000/- per Indian, Rs.4000/- per foreigner.	Asst.wildlife warden, Peppara-8547602951

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
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.30/- per Indian Adult, Rs.10/- per indian Child, Rs.300/- per foreigner Adult, Rs.225/- per foreigner Child, Bike / Auto- Rs.15/-, Car / Jeep-Rs.30/-, Bus- Rs.60/-, Still camera - Rs.50/- Movie camera – Rs. 300/- Trekk group Rs. 500/- (min. 10 members) addnl. amount for extra members Rs. 60/- per head (max. 20 members) 3 hrs. Rs. 800/- (min. 10 members) addnl. amount for extra members Rs. 100/- per head (max. 20 members) 6 hrs. Rs. 1500/- (min. 5 members) addnl. amount for extra members Rs. 400/- per head (max. 10 members) 12 hrs. Rs. 4000/- (max. 5 members) 36 hrs. Including one night halt. Rs. 6000/- (max. 5 members) 60 hrs. Including two night halt. Trekking Special class Rs. 400/- per head for one hr. Rs. 600/- per head for 1-3 hrs. Rs. 750/- per head for 3-6 hrs.	Secretary, Ponmudi Vana Samrakshana Samithi 8547600986
5	5. Mankayam	Mankayam water falls and adjacent areas	By bus- (Trivandrum- Nedumangad- Peringamala- Mangayam)			Secretary, Mankayam Vana Samrakshana Samithi 9400879969
6	6.Kallar	Meenmuttery waterfalls in the evergreen forests in foot hills of Ponmudi	By bus- 29 KM (Trivandrum- Nedumangad- Vithura-Kallar)			Secretary, Kallar Vana Samrakshana Samithi 8547600956

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
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-AryankavuShenkotta)	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
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	Interpretation centre cum ticket counter, Vanasree eco shop, Palaruvi canteen, Bathing ghats, Visit to remains of the historical structures,	Entry fee- Rs 50/- per indian adult, Rs 25/- per indian child, Rs 30/- per student, Rs 100/- per foreigner Parking Bike / Auto- Rs.20/-, Tourist Bus- Rs.150/-, Car / Jeep- Rs.50/-, Van / Mini bus-Rs.100/-, Still camera- Rs.50/-, Movie camera-Rs.100/-, Trekking Indians - Rs 100/- Trekking foreigner- Rs 200/-	DFO, Thenmala,- 9447979037 RFO, Aryankavu- 8547601067 Palaruvi Ecotourism Office -0475 2211200, 2211700
9	3. Shendurney (Contd....)	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,	Jungle safari- Wet'n' wild trail- Rs.400/- per Indian adult, Rs.250/- per Indian child (8 to 12 years) above 12 years Rs. 400/- per child, up to 7 years ticket free. Rs.500/- per foreigner. Chenkurinji trail- Rs.400/- per Indian adult, Rs.250/- per Indian child (8 to 12 years) Rs.500/- per foreigner.	Wildlife Warden Shendurney- 9447979081

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
	3.Shendurney				<p>Soft trekking : Sky walk/ Myristica walk / Reservoir walk 1 hour adults Rs. 100 per person (minimum 4 pax)Students Rs. 50/- per student (High School)Rs. 100/- (Plus two onwards)3 hour adults Rs. 1000/- (Minimum 2 pax) Rs. 500/- (extra person)</p> <p>Hard trekking:-Wet'n wild trail/ Edapalayam mount hike / Evergreen trail /LTM trail 6 hours adults Rs. 2500/- per person (Minimum – 2 pax) Rs. 500/- (extra person)</p> <p>Night safari by jeep_ Rs. 6000/- for 4 pax Rs. 500 (extra person)</p> <p>Boating:-Dawn 'n'dusk surfing (Special boating)_ Rs.300/- per Indian (minimum 8 pax Rs. 2400/- Rs.600/- per foreigner,</p> <p>Jungle camping:- Idimuzhangan nights / Woody rockwood / Kurunthotti top hut / Spa 'n' pallivasal Rs.7500/- per 2 pax Extra person Rs. 1500/-</p> <p>Lake view 'n' kalamkunnu:- Rs.7500/- for 2 persons (for package) Rs. 5000/- for 2 persons</p> <p>Kalamkunnu Safari:- Rs. 60/- per person (minimum 10 pax)</p> <p>Coracle ride :- Rs. 400 per person (for trip) (maximum 4 pax)</p> <p>Bamboo Raft :- Rs. 100/- per person (minimum 5 pax) 30 minutes</p>	

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
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 & Bamboo Hut	Konni-11 KM	---	Rs.500/- for short trip journey Rs.900/- for long trip journey Rs. 4000/- room upto 4 persons (excluding food) in Bamboo Hut	04682342005 8547600610
12	3.Gavi (Pachakkanam)	Being in the buffer zone of the famed periyar tiger reserve, the area is teeming with magnificent and exclusive flora and fauna, Cardamom plantations,Waterfalls,	Kottayam railway station-120 KM Cochin airport-170 KM Thekkady- 42 KM	Day package (Spice garden visits, Paddle boat ride, etc), Stay package (Spice garden visits,Paddle boat ride, Stay in either green mansions eco lodge or swiss cottage tents, etc),	Entry fee :- Rs. 60/- per Indian Rs. 120/- per foreigner, children below 13 yrs free Day package and Stay package are available there.	8289821306 8289821004 8547809270
13	4. Kattathi	Jeep Savari	-	-	Rs. 3000/- for 4 persons	
14	5. Kalleli – Kadampupara	Not Started				

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
IV. KOTTAYAM DISTRICT						
15	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
16	2. Kalvrimount	Panoramic view of Idukki arch dam reservoir and Idukki wildlife sanctuary	Thekkady-50 km (Along Kumily-Kattappana-Thodupuzha State highway) Painavu-15 km Kuttikkanam-55km	Resting huts Night staying huts Cafeteria Eco shop	Entrance- Rs.20/- Night staying huts- Rs.2000/- Parking Two wheeler Rs. 10/- Three wheeler Rs. 15/- Four wheeler Rs. 20/- Mini bus Rs. 50/-	8547601115
V. IDUKKI DISTRICT						
17	1. Viripara (Kainagiri)	Kainagiri water falls, Semi evergreen and grassland vegetation,	By road:- Munnar-23 km Adimaly- 28 km Kottayam-156 km Kumily-124 km Thiruvananthapuram-300 km, Aluva railway station -153 km Nedumbassery airport-153 km	Information centre cum eco shop	Waterfall seeing- Rs.20/- person Kannadipara trekking- Rs.300/- person Bathing Rs. 50/-	Range officer- 8547601560 Secretary- 8547601564 President- 9495768214

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
18	2. Anakottapara Park	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
19	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
20	4. Periyar Tiger Reserve	Gavi & Thekkady, Project tiger, Panoramic view of undulating mountains, multifarious cultural peculiarities of tribal communities, Best place to observe wild animals at close quarters while cruising in the safety of a boat in Periyar lake	Kumily-3 km Cochin international airport-190 km Kottayam railway station-114 km	Jungle camping, Boating, Bamboo groves (lodging), Tribal dance, Trekking,	Entrance- Rs. 40/- per Indian adult, Rs. 10/- per Indian student (Below 12 years) Rs. 475/- per foreigner, Rs. 170/- per foreigner student (Below 12 years).	Thekkady Range- 04869 22947 Vallakkadavu Range- 04869 252515 Information centre- 04869 224571

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
21	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 .25/- per Indian, Rs. 315/- per foreigner, Eravikulam National Park visit_ Rs. 120/- per Indian, Rs. 400/- per foreigner, Lakkam Waterfalls visit- Rs. 20/- per Indian, Rs. 20/- per foreigner, Cascade walk-Rs. 100/- per Indian, Rs. 100/- per foreigner, Kurinji trail- Rs. 150/- per Indian, Rs. 150/- per foreigner, Camping wild Rs. 3000/- for 2 Indians, Rs. 4000/- for 2 foreigners	Wildlife warden, Munnar- 9447979093
22	6. Shola National Park (Contd....)	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 Anamudi Shola National Park:- Marayoor- 40 km Aluva railway station-150 km Cochin airport-160 km	Amenity centre, Ethnic hut, Trekking,etc	Mathikettan Shola National Park:- Entrance fee- Rs .25/- per Indian, Rs. 315/- per foreigner Log house- Rs. 1500/- for 2 Indians, Rs. 2500/- for 2 foreigners, Trekking- Rs. 325/- per Indian, Rs. 615/- per foreigner Anamudi Shola National Park:- Entrance fee- Rs. 25/- per Indian, Rs. 315/- per foreigner Log house- Rs. 2000/- for 2 Indians, Rs. 3000/- for 2 foreigners, Stone house- Rs. 2000/- per 2 Indians, Rs. 3000/- per 2 foreigners,	Wildlife warden, Munnar- 9447979093

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
	6. Shola National Park	Camping wild, Log house, Stone house, Bison swamp, Ethnic hut	Pambadum Shola National Park:- Munnar-35 km	Amenity centre, Ethnic hut, Trekking,etc	Pambadum Shola National Park:- Entrance fee- Rs. 25/- per Indian, Rs. 315/- per foreigner Log house- 4000/- per 2 Indians, Rs. 5000/- per 2 foreigners, Bison swamp- Rs. 4000/- per Indian, Rs. 5000/- per foreigner Ethnic hut- 4000/- per 2 Indians, Rs. 5000/- per 2 foreigners,	Wildlife warden, Munnar- 9447979093
23	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 seei ng, Walking through lush evergreen forest, bird watching, Vanasree eco shop, Interpretation centre	Entry fee- Rs 30/- per Adult and Rs 20/- per child Trekking- Rs 1500/- per 5 persons Camera- Rs 50/- Video- Rs 250/-	Vana Samrakshana SamithiSecretary- 8547601306 Range Officer, Kaliyar- 0486-2247591, 8547601302
24	8. Meenuzhinjan Para	Not Started				

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
25	9. 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. 25/- per Indian, Rs. 315/- per foreigner Trekking(Koottar, Pambar, Churulipetty)- Rs. 225/- per Indian, Rs. 615/- per foreigner Trekking(Vashyappara) - Rs. 600/- per Indian, Rs. 1300/- per foreigner Pambar log house / Koottar log house / Churulipetty log house / Karakad tree nest- Rs. 3000/- per 2 Indians, Rs. 4000/- per 2 foreigners, Vashyappara mud house- 4000/- per 2 Indians, Rs. 5000/- per 2 foreigners,	Wildlife-Warden,Munnar-9447979093
VI. ERNAKULAM DISTRICT						
26	1. Mulamkuzhy	Periyar river bank with riverine forest, Teak plantation, Mahaganithottam	Perumbavoor- 20km Aluva railway station-35 km Cochin international airport-20 km	Parking ground, Cafeteria, Vanasree eco shop, Trek path, Danger line indicator,	Visitors- Rs 20/- for Indian adult Rs. 10/- for Indian child Rs. 50/- for foreign adult & child Parking fee Bike / Auto-Rs.10/-, Light motor vehicle- Rs.25/-, Heavy vehicle- Rs.60/-, Camera-Rs.50/-Video-Rs. 100/-	DFO, Malayattoor-944797953 8547604231

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
27	2. Paniyeliporu	Periyar river bank with riparian forest, Water Falls.	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 20/- for Indian adult Rs. 10/- for Indian child Rs. 50/- for foreign adult & child Parking fee: Bike Auto-Rs.10/- Light motor vehicle- Rs.25/-, Heavy vehicle- Rs.60/- Camera-Rs.50/- Video-Rs. 100/-	DFO, Malayattoor- 944797953, Office: 8086666136
28	3. Kodanadu Elephant Camp	Situated near Periyar Bank		Rehabilitation Centre and Nature Appreciation Area	Entry fee- Indian adult Rs. 10/- and children above 5 years Rs. 5/- Rs. 25/- for foreigner Parking – Two wheeler Rs. 5/-, Car/Jeep Rs. 10/-, Mini bus / tempo Rs. 20/- Parking heavy vehicles Rs. 30/-	ACF NSC Kalady 9447979164 Office 0484 2468680

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VII. THRISSUR DISTRICT						
29	1. Athirapilly and Vazhachal	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
30	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.200/- person Bamboo rafting- Rs.1000/-4 persons (minimum 4 person) Myna eco retreat- Rs.7500/- for 3 person Dormitory- Rs.160/- per bed per day	Asst. Wildlife Warden- 8547603451 Chimmony Range- 0480 2766972

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VIII. PALAKKAD DISTRICT						
31	1. Silent Valley	National park,Thick evergreen forest	Palakkad railway station-60 KM- (Palakkad to Mannarkad, on the way to Anakkatty, Mukkali stop.) Cochin international airport-165 KM	Visit to wet evergreen forests, Trekking, Nature education	Entry fee (By bus) – Rs 400/- per Indian adult, Rs 300/- per Indian student, Rs 700/- per foreigner. Entry fee (By jeep) - Rs 2000 - for 5 persons. Rs. 2300/- per foreigner Parking Light motor vehicle- Rs.15/- Heavy vehicle- Rs.20/-	04924-253225 8589895652 9645586629
32	2. Parambikulam Tiger Reserve (Contd....)	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, Veettikunnu island nest, Tree top huts, Cheetal valley, Bison valley, Bear hut,etc) Paid nature camps.	Entrance fee- Rs 25/- per Indian adult, Rs 315/- per foreigner, Light motor vehicle- Rs.80/-, Heavy vehicle- Rs.315/-, Camera- Rs.40/-, Video camera-Rs.315/-, Vehicle safari- Rs. 200/- per person Tented niche (Capacity:21) For Indians-s. 5500/- (week days), Rs. 6600/- (holidays), For foreigners-Rs. 8800/- (week days), Rs. 11000/- (holidays),	Information Centre, Anappady- 9442201690 9442201691

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
	2. Parambikulam Tiger Reserve				<p>Honey comb accommodation (Capacity:18):-For Indians-Rs. 4500/- (week days), Rs. 5500/-(holidays), For foreigners-Rs. 6600/-(week days), Rs. 7700/-(holidays)</p> <p>Veetikunnu Island nest (Capacity:5) :-For Indians-Rs. 8250/- (week days), Rs. 8800/-(holidays), For foreigners-Rs. 9350/-(week days), Rs. 11000/-(holidays)</p> <p>Tree top hut, Thunakadavu (Capacity:2) :- For indians-Rs. 4400/- (week days), Rs. 5500/-(holidays), For foreigners-Rs. 6600/-(week days), Rs. 8800/-(holidays)</p> <p>Tree top hut,Parambikulam (Capacity:2) :- For indians-Rs. 2750/- (week days), Rs. 3300/-(holidays), For foreigners-Rs. 3300/-(week days), Rs. 5500/-(holidays)</p> <p>Bear hut(Capacity:2) :- For Indians-Rs. 4400/-(week days), Rs. 5500/-(holidays),For foreigners-Rs. 6600/-(week days), Rs. 7700/-(holidays),</p>	<p>Information Centre, Anappady-9442201690 9442201691</p>

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
33	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 Jeep :- Rs. 100/- per person Rs. 80/- Halt entry one day Rs. 100/- Halt entry two days Rs. 150/- Entry fee for foreigners Rs. 200/- Halt entry fee for foreigners one day Rs. 250/- Halt entry fee for foreigners two days Rs. 50/- Students pass	Section forest Officer- 8547602165, 8547602162
34	4. Dhoni	Water falls, Panoramic view	Dhoni- Palakkad railway station-12 km	Bird watching , Trekking	Trekking-Rs. 300/- per person	DFO, Palakkad-0491 2555156 Range Forest Officer, Olavakode 8745602072
35	5. Ananganmala	Panoramic view	Ananganmala- PKD railway station-45 km Meenvallam- PKDrailway station-34 KM	Trekking	Rs. 20/- per adult Rs. 10/- per child	DFO, Palakkad-0491 2555156 Range Forest Officer, Ottappalam-8745602087
36	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

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VIII. MALAPPURAM DISTRICT						
37	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 35/- per indian adult, Rs 20/- per indian child , Rs 80/- per foreigner Parking fee Bike- Rs.40/-, Auto-Rs.40/-, Light motor vehicle- Rs.80/-, Heavy vehicle- Rs.315/- Still camera- Rs.40/- Video camera-Rs.240/-	Dy. Range Forest Officer, Nedumkayam- 8547602263 Range Office- 04931 270296 DFO, Nilambur (South)- 04931 220392
38	2. Kozhippara	Natural waterfalls, Cool climate, Undulating mountain rows view	Kakkadampoyil - 2km 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, Rs 20/- per foreign child Still camera- Rs.25/- Smart phone- Rs.10/- Movie camera- Rs.150/-	Range officer, Edavanna- 8547602168
39	3. Adyanpara	Fully operated by DTPC, Malappuram				

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
X. KOZHIKODE DISTRICT						
40	1. Kakkayam (Malabar Sanctuary)	Dam site and water falls	Kozhikode- 56 KM	Waterfalls, Trekking in hillocks, Guides.	Rs 40/- per adult, Rs 20/- per student Rs. 60/- per foreigner	DFO, KKD-9447979073 Thamarassery Range Officer 8547602830
41	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, Rs. 50/- per foreigner	DFO, KKD-9447979073 8547602838
42	3.Thusharagiri	Water falls	Kozhikode - 54 km	Trekking, Nature education, Guides	Rs 30/- for adult, Rs 15/- per student, Rs. 50/- per foreigner	DFO, KKD -9447979073 8547602818
43	4.Kakkavayal	Bio-diversity garden	Kozhikode - 41 km	Guides	Rs 30/- for adult, Rs 15/- per student, Rs. 50/- per foreigner	DFO, KKD-9447979073 8547602792
44	5. Janakikkad	Low elevation ever green forest	Kozhikode - 50 km	Trekking, Guides	Rs 30/- for adult, Rs 15/- per student, Rs. 50/- per foreigner	DFO, KKD-9447979073 8547602773

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
XI. WAYANAD DISTRICT						
45	1. Tholpetty	Wildlife sanctuary	Sultan bathery-65 KM Kozhikode railway station-129 KM	Trekking, Vehicle safari, Eco shop, Dormitory, Serambi	Entry – Rs 145/- per Indian adult, Rs 60/- per Indian student. Rs 350/- per foreigner. Light motor vehicle- Rs.80/ Still camera- Rs.40/- Video camera- Rs.240/- Interpretation centre– Rs. 10/- Cerambi rent (1st floor) - Rs.2945/- per day, Rs. 1695/- (Ground floor) Dormitory rent- Rs.230/- head per bed	Asst.wildlife warden, Tholpetty range- 04935 250853
46	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 - Rs 145/- per Indian adult, Rs 60/- per Indian student. Rs 350/- per foreigner. Light motor vehicle- Rs.80/ Still camera- Rs.40/- Video camera- Rs.240/- Interpretation centre– Rs. 10/- Cerambi rent (1st floor) - Rs.2945/- per day, Rs. 1695/- (Ground floor) Dormitory rent- Rs.230/- per head per bed	Asst.wildlife warden, Muthanga range- 04936 271010, 271015

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
47	3. Thirunelli Pakshipathalam (Brahmagiri Hills)	Temple, Pakshipathalam, Brahmagiri Hills,	Sultan bathery-71km	Rain forests, shola, Trekking	Rs. 1995 + 18% GST for 5 Indian adults Rs. 2625 + 18% GST for 5 foreigners	R.O., Begur-8547602504 Section Forest Officer-9495318823
48	4. Banasuramala	Trekking	Kalpetta-25 km		Entry fee- Rs 36/- per Indian adult, Rs 18/- per Indian student. Rs 71/- per foreigner. Camera- Rs.89/- for Indians, Rs 89/- for foreigners	DFO, South Wayanad-04936 203428, 9447979075 Range Officer-8547602715
49	5. Pakkam-Kuruva	Island	Sultan bathery-36km	Visit to riparian forest, Rafting.	Entry fee- Rs 95/- per adult, Rs 65/- per student Parking fee- Bike- Rs.12/-, Auto- Rs.36/-, Light motor vehicle-Rs.59/-, Heavy motor vehicle- Rs.95/- , Camera- Rs.59/-	DFO, south wayanad-9447979075 Range Officer-8547602737
50	6. Soochippara	Waterfalls	Kalpetta- 24 km		Entry fee- Rs 107/- per foreigner Parking fee- Bike- Rs.6/- 4 wheeler- Rs.36/- Heavy motor vehicle - Rs.89/-	DFO, South Wayanad-04936 203428, 9447979075 Range Officer-8547602680

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
51	7.Chembra Peak	Trekking	Kalpetta- 25 km	Trekking	<p>Entry fee- Rs 24/- per Indian adult, Rs 18/- per Indian student. Rs 36/- per foreigner.</p> <p>Camera-Rs.47/- for Indians, Rs 94/- for foreigners</p> <p>Trekking 10 members- Rs.855/- for Indians and Rs 1770/- for foreigner (5 members)</p>	<p>DFO, South wayanad- 04936 203428, 9447979075 Range Officer- 8547602680</p>
52	8. Neelimala				Not started	
53	9. Camel Hump				Not started	
54	10. Vythiri				Not started	
55	11. Muneeswaran Kunnu Makkimala	Stay cum trekking, Hill view	Thalapuzha-Mananthavady-Thalapuzha forest station-Makkimala-Muneeswaran-kunnu- 5 km and 15 km from Mananthavadi	Tents with biotoilets	<p>Entry fee Rs.35 + 18% of GST for Indian adult and 20 + 18% GST for Indian child Rs. 45 + 18% GST for foreign adult and foreign child. The above fee for trekking also</p> <p>Camping Rs. 2100 + 18% GST for 15 Indians and Rs. 3000 + 18% GST for 15 foreigners</p>	<p>Range Officer, Begur-8547602504 Dy. Range Officer- 87547602520 Secretary, Makkimala Vana Samrakshana Samithi- 8547602526</p>

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
56	12. Meenmutti Waterfalls, Makkiyad	Waterfalls, Childrens park	Mananthavady 4 th mile-Korome spot-Korome village office road - 2 KM 26 KM from Mananthavady	Childrens park	Entry fee- Rs 50 + 18% GST per adult, Rs 30 + 18% GST per child. Rs. 75 + 18% GST for foreign adult and child	Range Officer, Mananthavady- 8547602 480 Dy. Range Officer, 7547602481 Secretary, Chalil Vana Samrakshana Samithi - 8547602483
XII. KANNUR DISTRICT						
57	1. Paithalmala	Grass land with semi shola forest, Pond	Kannur railway station-60 km Kozhikode airport-172 km	Basic infrastructure facilities	Entry fee- Rs .30/- per Indian adult, Rs. 15/- per Indian student Rs. 100/- per foreigner. Camera- Rs.40/-	8547602621

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
58	2. 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 .115/- per Indian adult, Rs. 40/- per Indian student Child (13 to 18 yrs) Rs.10/- per Indian student / child (below 13 yrs) Rs. 360/- per foreigner. Vehicle - Rs.110/- Still camera - Rs.40/- Movie camera _ Rs.240/-, Dormitory rent - Rs.160/- per head ,Rs.50/- per student, IB rent - Rs.900/- per day	Aralam Wildlife Division 0490 2493160 Aralam Wildlife Range 0490 2413160
59	3. Kanhirakolly (Azhakapuri Water falls)	Waterfalls of 20 to 25m height	Kannur Rl.way 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. KASARGOD DISTRICT						
60	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 1067.23 lakh has been generated towards eco-tourism activities in various eco-tourism centres in 22 territorial divisions in the State.

TABLE 8.13 >>DETAILS OF TOURISTS AND INCOME GENERATED FROM ECO-TOURISM ACTIVITIES IN TERRITORIAL DIVISIONS OF KERALA FOREST DEPARTMENT DURING 2018-19

Sl. No.	Division	Name of range	Location of eco-tourism centre	No. of Visitors				Income generated (in rupees)
				Native	Foreigners	Students	Total	
1	Thiruvananthapuram	Palode	Ponmudi	298068	2432	19221	319721	15871215
			Mankayam	20455	19	1523	21997	784665
		Paruthippally	Kallar	104720	1326	13858	119904	4375965
2	Thenmala	Aryankavu	Palaruvi	150544	118	7785	158447	9502155
3	Achencovil	Achencovil	Manalar-Kumbhavuruty	29307	0	3113	32420	997870
4	Punalur	Anchal	Kudukkathupara	15662	0	899	16561	437650
5	Ranni	Goodrical	Pachakkanam	19246	314	0	19560	918030
6	Konni	Konni	Eco Tourism	162045	159	22111	184315	4826900
			Tree Top Huts	889	0	163	1052	1186000
		Adavi	Adavi	58872	281	5976	65129	7754900
		Naduvathumoozhy	Gavi Bus Tour	1059	0	96	1155	2024650

Sl. No.	Division	Name of range	Location of eco-tourism centre	No. of Visitors				Income Generated (in rupees)
				Native	Foreigners	Students	Total	
7	Kothamangalam	Kaliyar	Thommankuthu	60583	160	4565	65308	2215060
8	Kottayam	Kumily	Chellarcovil	4538	295	1561	6394	174840
		Ayyappancoil	Kalvari mount	135343	0	2340	137683	3675259
9	Mankulam	Mankulam	Kainagiri(Viripara)	20074	2017	4469	26560	985040
			Nakshathrakuthu	3012	51	143	3206	195970
10	Marayur Sandal	Marayur	Rajiv Gandhi National Park	3156	52	8198	11406	32080
		Kanthalloor	Anakottapara Park	33073	1522	25915	60510	345950
11	Vazhachal	Charpa	Athirappally	900904	9933	190776	1101613	5000765
			Vazhachal	79733	333	11511	91577	426187
12	Malayattoor	Kodanad	Paniyeliporu VSS	108560	159	14637	123356	2867785
		Kalady	Mulamkuzhy VSS	45323	0	5231	50554	1223150
		Thundathil	Bhoothathankettu	37997	63	6901	44961	810390
13	Mannarkkad	Agali	Singapara/Siruvani	704	33	77	814	173370
			Thodukappu	8602	2	4033	12637	202193
14	Nilambur South	Karuli	Nedungayam	19596	5	3633	23234	677345
15	Nilambur North	Edavanna	Conolly Plot, Aruvacode	165813	829	18126	184768	4597170
			Kozhipara	43480	46	2052	45578	901615
		Nilambur	Chandakkunnu	10715	7	2634	13356	337520

Sl. No.	Division	Name of range	Location of eco-tourism centre	No. of Visitors				Income Generated (in rupees)
				Native	Foreigners	Students	Total	
16	Palakkad	Ottappalam Olavakkode	Ananganmala	38523	0	0	38523	737850
			Meenvallam Waterfalls	51121	0	0	51121	984780
			Dhoni Waterfalls	8400	0	0	8400	840000
17	Nemmara	Kollengode	Minnampara	19494	13	67	19574	1437000
18	Kozhikode	Thamarassery	Thusharagiri	133556	883	7407	141846	4161935
			Kakkad	8490	0	547	9037	280310
			Kakkavayal	12066	0	2677	14743	403135
		Peruvannamuzhi	Peruvannamuzhi	21520	0	4189	25709	708435
		Kuttiady	Janakikkad	19582	5	1587	21174	611515
19	Wayanad North	Begur	Brahmagiri Trekking	966	52	122	1140	130920
			Chirapullu	655	9	54	718	150050
		Mananthavady	Muneeswarakunnu	1263	0	39	1302	75890
20	Wayanad south	Kalpetta	Banasura -Meenmutty	92535	549	12888	105972	3082832
		Meppady	Soochippara	152859	686	21440	174985	8704879
			Chembra	11344	214	98	11656	1603015
		Chedalathu	Pakkom-Kuruva	84108	253	16395	100756	6570704
21	Kannur	Thaliparamba	Paithalmala	23825	25	653	24503	807020
			Sasippara view point	13450	2	677	14129	285890
			Azhakapuri Waterfalls	14999	10	1298	16307	313940
22	Kasargod	Kanhangad	Ranipuram	44494	22	1703	44516	1311475
TOTAL				3295323	22879	453388	3769887	106723264

B. WILDLIFE DIVISIONS: An amount of 2595.27 lakh has been generated towards eco-tourism activities in National Parks and Sanctuaries in wildlife divisions in the State.

TABLE 8.14 >>DETAILS OF TOURISTS AND INCOME GENERATED FROM ECO-TOURISM ACTIVITIES IN WILDLIFE DIVISIONS OF KERALA FOREST DEPARTMENT DURING 2018-19

Sl. No.	Name of Wildlife Sanctuary/National Park	District	Division	No. of Visitors				Income generated (in rupees)
				Native	Foreigners	Students	Total	
1	ABP range , Kottoor	Thiruvananthapuram	TVPM WL Division	76496	16154	3894	96544	3963000
2	Neyyar WLS			45424	11658	1445	58527	7794000
3	Peppara WLS			13692	0	20	13712	2530000
4	Shenduruney WLS	Kollam	Shenduruney WL	8719	40	930	9689	3713108
5	Thattakad bird sanctuary	Eranakulam	Idukki WLS	55582	636	3541	59759	2998733
6	Idukki WLS	Idukki		12106	7	0	12113	2014474
7	Malabar Sanctuary	Kozhikode	Kozhikode	51255	34	1010	52299	1554500
8	Wayanad WLS	Wayanad	Tholpetty EDC	32949	678	6109	39736	1335355
			Muthanga EDC	47964	1561	7974	57499	2034515
9	Parambikulam Tiger Reserve	Palakkad	Parambikkulam	83528	493	2471	86492	49230360
10	Periyar East Tiger Reserve	Idukki	Thekkady in PTR	383045	30613	7742	421400	101683761
			Vallakkadavu PTR	13904	1223	431	15558	2158317
			Gavi (Safari)	12089	926	955	13970	1306685

Sl. No.	Name of Wildlife Sanctuary/National Park	District	Division	No. of Visitors				Income generated (in rupees)
				Native	Foreigners	Students	Total	
11	Silent Valley NP	Palakkad	Mukkali	7795	26	45	7866	1528211
12	Eravikulam NP	Idukki	Munnar wildlife	374574	61168	8600	444342	63367761
13	Chinnar WLS			13106	1189	0	14295	9899035
14	Pampadum shola NP			2570	318	0	2888	1920775
15	Chimmony WLS	Thrissur	Peechi	449	0	0	449	361800
16	Aralam WLS	Kannur	Aralam	2678	11	2675	5364	132520
TOTAL				1237925	126735	47842	1412502	259526910

TRIBAL CO-OPERATIVE SOCIETIES

TABLE 8.15 >> DIVISION / RANGE WISE DETAILS OF TRIBAL CO-OPERATIVE SOCIETIES

Sl. No.	Division	Range	Name of society
1	Thiruvananthapuram	Kulathupuzha	Pottamavu ST Service Co-op Society, Reg. No. T618
		Paruthippally	Pottamavu ST Service Co-op Society, Madathara P.O.
2	Thenmala	Aryankavu	Aryankavu Girijan Co-op. Society, Aryankavu
3	Punalur	Anchal	Vanchiyodu SC/ST Society Ltd.No.Q1032, Venkolla.P.O, Madathara
4	Ranni	Ranni	Chollanavayal Girijan Service Co-op. society Ltd. No. Q 759 Adichippuzha
5		Vadasserikkara	Perunthenaruvi Girijan Service Co-op. Society Ltd No. Q 763, Vechoochira P.O
6		Goodrical	Seethathodu- Chittar Tribal Co-op. Society.

Sl. No.	Division	Range	Name of society
7	Mankulam	Mankulam, Anakulam	Adimali Girijan Service Society
8	Munnar	Adimali, Neriya Mangalam	Adimali Girijan Service Co-op. Society No. 3887
9	Marayoor	Marayoor, Kanthalloor	Devikulam Scheduled Tribe Service Co-operative Society
10	Kottayam	Nagarampara	Vazhathope ST Service Co-op. Society, Idukki
11	Kothamangalam	Thodupuzha, Mullaringad, Kaliyar	Tribal Co-op. Society, Vazhathoppe
12	Thrissur	Pattikkad/Vadakkancherry/Machad	Thalappilly Taluk girijan service co-op. society Ltd No. R-673
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	Nelliyampathi, Kollengode	Pattikavarga Sevana Sahakarana 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, Appapara, Thirunelly. P.O.
24	Kozhikkode	Kuttiadi, Thamarasserry	Vilangad ST Service Co-op. Society
25	Kannur	Thalipparamba, Kottiyoor, Kannavam	Nedumpoyil ST Service Co-op. Society, Nedumpoyil
26	Kasaragod	Kanjangad	Panathady Scheduled Tribes Services Co-operative Society Ltd.
27	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.

TABLE 8.16 >> CIRCLE WISE NUMBER OF TIMBER DEPOTS

Sl. No.	Circle	Sales division	No. of depots
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

TABLE 8.17 >> CIRCLE WISE DETAILS OF TIMBER DEPOTS

Sl. No.	Circle	Sales Division	Depots	
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
3	Central Circle, Thrissur	Perumbavoor	16	Veettoor
			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

ABBREVIATIONS

1	EFL	Ecologically Fragile Land
2	CHR	Cardamom Hill Reserves
3	PA	Protected Area
4	FD(PT)	Field Director (Project Tiger)
5	ABP	Agasthyavanam Biological Park
6	NP	National Park
7	TS	Timber Sales
8	DFL	Degraded Forest Land
9	NFL	Non Forest Land
10	FCA	Forest Conservation Act
11	KFDC	Kerala Forest Development Corporation
12	NTFP	Non Timber Forest Produce
13	FTC	Forestry Training Centre
14	I&E	Inspection & Evaluation
15	IMG	Institute of Management in Government
16	EEI	Extension Education Institute
17	CASFOS	Central Academy for State Forest Service
18	IHRD	Infrastructure and Human Resource Development
19	WL	Wildlife
20	RIDF	Rural Infrastructure Development Fund
21	CSS	Centralized Sponsored Scheme
22	EAP	Externally Aided Project
23	APO	Annual Plan of Operation
24	CAMPA	Compensatory Afforestation Fund Management and Planning Authority
25	SC	Southern Circle
26	HRC	High Range Circle
27	CC	Central Circle
28	EC	Eastern Circle
29	NC	Northern Circle
30	WLS	Wildlife Sanctuaries

ABBREVIATIONS

31	RRT	Rapid Response Team
32	KFRI	Kerala Forest Research Institute
33	NTCA	National Tiger Conservation Authority
34	MoEF&CC	Ministry of Environment, Forest and Climate Change
35	IUCN	International Union of Conservation of Nature
36	WP	Working Plan
37	VSS	Vana Samrakshna Samithies
38	EDC	Eco-Development Committies
39	SF	Social Forestry
40	FDA	Forest Development Agency
41	SFPF	Special Forest Protection Force
42	MFP	Major Forest Produce
43	FTC	Forest Training Centre
44	FIC	Forest Information Centre
45	NSC	Nature Study Centre
46	BS	Bird Sancturies
47	FSI	Forest Survey of India
48	EAP	Externally Aided Project
49	KF Act	Kerala Forest Act
50	WLP Act	Wildlife Protection Act





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