



KERALA FOREST
STATISTICS
2021





KERALA FOREST DEPARTMENT

FOREST STATISTICS 2021

Prepared by –Statistics Wing, Forest Head Quarters, Thiruvananthapuram



PREFACE

The State of Kerala is endowed with rich natural resources. Tropical climate with plenty of sunshine and rainfall favours forests with rich biodiversity and endemism. Western Ghats, one of the Biodiversity hotspots, is running all along the eastern boundary of Kerala. Increasing population and changing lifestyles of the people is exerting great pressure on forests. The greatest challenge faced by present day foresters is to accommodate developmental needs by minimizing the destruction of its rich forests.

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

'Forest Statistics 2021' is one such effort made by Statistics Wing of the department, headed by Deputy Director (Statistics), to compile and provide vital statistical data much needed by the policy makers to formulate future policies. It is equally needed by various Scientific Institutions, Research Scholars and students. I hope this compilation will be of great value to all segments of the society.

Bennichan Thomas IFS
Principal Chief Conservator of Forests
&
Head of Forest Force

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KERALA AT A GLANCE

<i>Density (persons / km²)</i>	860
<i>Population (2011 census)</i>	33406061
<i>Per Capita Land (as per 2011 census)</i>	0.116 ha
<i>Male Population</i>	16027412
<i>Female Population</i>	17378649
<i>Rural Population</i>	17471135
<i>Urban Population</i>	15934926
<i>Scheduled Tribe Population</i>	484839
<i>Scheduled Caste Population</i>	3039573
<i>Sex Ratio (female per 1000 male)</i>	1084
<i>Literacy Rate</i>	
<i>(Male Literacy-96%,Female Literacy-92%)</i>	94%
<i>Life Expectancy</i>	74.6 years
<i>Regional Language</i>	Malayalam
<i>No. of Villages</i>	1644
<i>No. of Grama Panchayath</i>	941
<i>No. of Block Panchayath</i>	152
<i>No. of District Panchayath</i>	14
<i>No. of Municipalities</i>	87
<i>No. of Municipal Corporations</i>	6
<i>Highest Peak</i>	Anamudi
<i>Longest River</i>	Periyar

KERALA FOREST STATISTICS AT A GLANCE (AS ON 31.3.2021)

<i>Total Forest Area</i>	<i>11524.913 km²</i>
<i>Total Plantation Area</i>	<i>1562.04 km²</i>
<i>Total Ecologically Fragile Land (EFL) Area</i>	<i>135.812 km²</i>
<i>Extent of Diversion of Forest Land</i>	<i>384.123 km²</i>
<i>Forest Cover(Forest Survey of India 2021)</i>	<i>21253 km²</i>
<i>Tree Cover (Forest Survey of India 2021)</i>	<i>2820 km²</i>
<i>Mangroves (Forest Survey of India 2021)</i>	<i>9.36 km²</i>
<i>Carbon Stock in Forest (Forest Survey of India 2021)</i>	<i>205.523 million tones</i>
<i>Extent of bamboo bearing area (Forest Survey of India 2021)</i>	<i>2882 km²</i>
<i>Encroachment</i>	<i>50.245 km²</i>
<i>Revenue from Forest (in crores)</i>	<i>236.60</i>
<i>Expenditure incurred (in crores)</i>	<i>628.52</i>
<i>Number of Wildlife Sanctuaries</i>	<i>18</i>
<i>Number of National Parks</i>	<i>6</i>
<i>Number of Community Reserve</i>	<i>1</i>
<i>Number of Biosphere Reserve</i>	<i>2</i>
<i>Area under Sanctuaries & National Parks</i>	<i>3441.207 km²</i>
<i>Number of Forest Stations</i>	<i>124</i>
<i>Number of Check Posts</i>	<i>63</i>
<i>Number of Timbersales Depots</i>	<i>28</i>

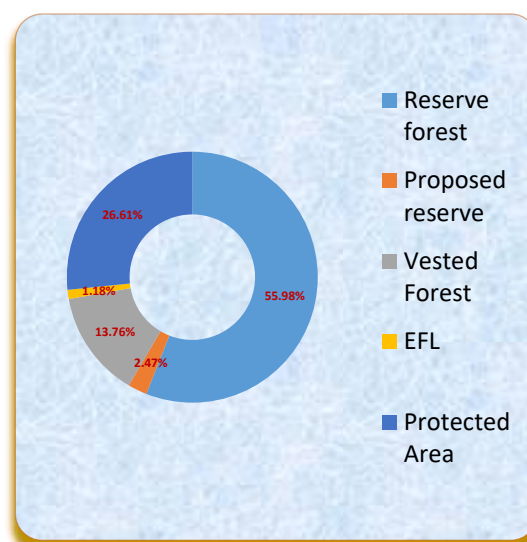
<i>Number of Vanasree eco Shops</i>	<i>64</i>
<i>Number of Tribal Co-operative Societies</i>	<i>27</i>
<i>Number of Eco-tourism National Park and Wild life Sanctuaries Destination</i>	<i>60</i>
<i>Tourist Arrival in Ecotourism Destinations</i>	<i>1760670</i>
<i>Income Generated from Ecotourism Destinations</i>	<i>1506.331 lakhs</i>
<i>Quantity of Major Forest produce</i>	
<i>Timber</i>	<i>19771.546 M³</i>
<i>Firewood & Billets</i>	<i>4245.489 MT</i>
<i>Sandal Wood</i>	<i>77872.696 kg</i>
<i>Teak Poles</i>	<i>1748.445 M³</i>
<i>Length of Road in charge of forest Department</i>	<i>4907.563 km</i>
<i>Human Wild life incidents during the year under the Report</i>	<i>8017 Nos</i>
<i>Compensation paid to victims of wild life attack</i>	<i>1044.82 lakhs</i>
Estimation of some important wild life species	
<i>Elephant (Dung count method-2017)</i>	<i>5706</i>
<i>Tiger (Tiger Census -2018)</i>	<i>190</i>
<i>Nilgiri Tahr (Est. population-2020)</i>	<i>723</i>
<i>Number of fire incidents relating to forest fire</i>	<i>150</i>
<i>Total destructed area by fire</i>	<i>5.02 km²</i>
<i>Financial loss of fire incidents</i>	<i>0.005 lakhs</i>
<i>No. of seedlings raised by the department</i>	<i>57.70 lakhs</i>
<i>No. of seedlings distributed during the year</i>	<i>49.47 lakhs</i>

CHAPTER-1 FOREST AREA

The forest area under the administrative charge of the department is 11524.913km² at the close of the year 2020-21 and forms 29.65% of the total geographical area of Kerala State (38863 km²). During 2020-21, 2.92 sq.km forest area has been increased from the previous year.

TABLE 1.1 DISTRIBUTION OF FOREST AREA ACCORDING TO LEGAL STATUS (km²)

Reserve Forests	6451.677	55.98%
Proposed Reserve	285.093	2.47%
Vested Forests	1586.147	13.76%
EFL	135.812	1.18%
Protected Area	3066.184	26.61%
Total	11524.913	100%



RESERVED FORESTS

Any land, proposed to be constituted as a Reserved Forests 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. During 2020-21, an area of 0.838 sqkm has been increased from the previous year under Reserve Forests, in which 0.034 sqkm (Mangrove Forest) area increased in Pattikkad Range in Thrissur Division, 0.04 sq.km area increased in Suvarnodhyanam Biological Park in NSC Kalady and 0.764 sq.km area increased in Ezhalloor Reserve in Thodupuzha Range in Kothamangalam Division.

During 2020-21, 5.598 sq.km area increased under Proposed Reserve by various Section 4 Notifications.

VESTED FORESTS

Any Private Forests, 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. An area of 3.331sqkm has been restored under Vested Forests during 2020-21.

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. Under 'Ecologically Fragile Lands' 0.185 sqkm area has decreased during 2020-21.



TABLE 1.2 DIVISION-WISE AREA OF FOREST AS ON 31.03.2021 (km²)

Sl. No.	Division	Reserve Forests	Proposed Reserve	Vested Forests	EFL	Protected Area	Total	% of 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	0	0	0	331.655	2.88
SOUTHERN CIRCLE DIVISION TOTAL		2282.470	24.152	10.057	9.112	0	2325.791	20.18
HIGH RANGE CIRCLE KOTTAYAM								
7	Kothamangalam	317.604	0.549	0.158	0	0	318.311	2.75
8	Munnar*	693.535	71.999	2.575	5.148	0	773.257	6.71
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	1.683	31.967	2.666	0	663.602	5.76
HIGH RANGE CIRCLE DIVISION TOTAL		1652.800	211.547	34.776	10.279	0	1909.402	16.56
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	1.214	0	0	0	610.939	5.30
15	Thrissur	207.041	0.948	4.309	0.849	0	213.147	1.85
CENTRAL CIRCLE DIVISION TOTAL		1407.650	2.162	4.309	0.889	0	1415.009	12.28

Sl. No.	Division	Reserve Forests	Proposed Reserve	Vested Forests	EFL	Protected Area	Total	% of Total
EASTERN CIRCLE PALAKKAD								
16	Mannarkkad	150.732	0	271.522	8.072	0	430.326	3.73
17	Nilambur North	58.393	0.252	371.720	9.622	0	439.987	3.82
18	Nilambur South	56.509	0	40.505	1.803	227.970	326.787	2.83
19	Palakkad	73.410	0	160.442	29.856	0	263.707	2.29
20	Nenmara	205.517	0.038	141.751	9.662	0	356.967	3.10
EASTERN CIRCLE DIVISION TOTAL		544.561	0.290	985.939	59.015	227.970	1817.774	15.77
NORTHERN CIRCLE KANNUR								
21	Kozhikode	6.215	26.070	187.274	16.020	74.426	310.005	2.69
22	Wayanad North	134.058	15.107	65.852	9.082	0	224.099	1.94
23	Wayanad South	67.679	3.774	203.273	20.502	0	295.228	2.56
24	Kannur	93.361	0	60.380	4.910	0	158.651	1.38
25	Kasaragod	86.023	1.921	30.061	4.905	0	122.910	1.07
NORTHERN CIRCLE DIVISION TOTAL		387.336	46.872	546.840	55.419	74.426	1110.893	9.64
AGASTHYAVANAM BIOLOGICAL PARK								
26	Thiruvananthapuram	30.98	0	0	0	181.000	211.980	1.84
27	Shenthuruni	0.833	0	4.226	0.354	166.820	172.233	1.49
A B P DIVISION TOTAL		31.813	0	4.226	0.354	347.820	384.213	3.33
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM								
28	Periyar East	0	0	0	0.675	709.000	709.675	6.16
29	Periyar West	0	0	0	0	216.000	216.000	1.88
30	Munnar WL	0	0	0	0	241.077	241.077	2.09
31	Idukki WL	35.524	0	0	0	95.000	130.524	1.13
FD (PT) DIVISION TOTAL		35.524	0	0	0.675	1261.077	1297.276	11.26

Sl. No.	Division	Reserve Forests	Proposed Reserve	Vested Forests	EFL	Protected Area	Total	% of Total
WILDLIFE CIRCLE PALAKKAD								
32	Parambikulam	102.770	0	0	0	274.130	376.900	3.27
33	Wayanadu (WL)	0	0.039	0	0.052	344.443	344.534	2.99
34	Silent Valley	0	0	0	0	237.491	237.491	2.06
35	Peechi	0.067	0	0	0.017	213.420	213.504	1.85
36	Aralam	0	0	0	0	85.380	85.380	0.74
WL PALAKKAD - DIVISION TOTAL		102.837	0.039	0	0.069	1154.864	1257.809	10.92
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	6.201	0	0	0	0	6.201	0.06
40	Mangalavanam BS	0	0	0	0	0.027	0.027	0
OTHERS TOTAL		6.687	0.031	0	0	0.027	6.745	0.06
GRAND TOTAL		6451.677	285.093	1586.147	135.812	3066.184	11524.913	100%

*Includes an extent of 372.98 km² of Cardamom Hill Reserves (CHR) in Munnar Division

** Includes an extent of 479.258 km² of Cardamom Hill Reserves (CHR) in Kottayam Division

TABLE 1.3 CIRCLE WISE FOREST AREA ACCORDING TO LEGAL STATUS AS ON 31.03.2021

Name of Circle	Area (km ²)
Southern Circle, Kollam	2325.79
High Range Circle, Kottayam	1909.40
Central Circle, Thrissur	1415.01
Eastern Circle, Palakkad	1817.77
Northern Circle, Kannur	1110.89
Agasthyavanam Biological Park	384.21
Field Director (Project Tiger), Kottayam	1297.28
Wildlife Circle, Palakkad	1257.81
Others	6.75
TOTAL	11524.91

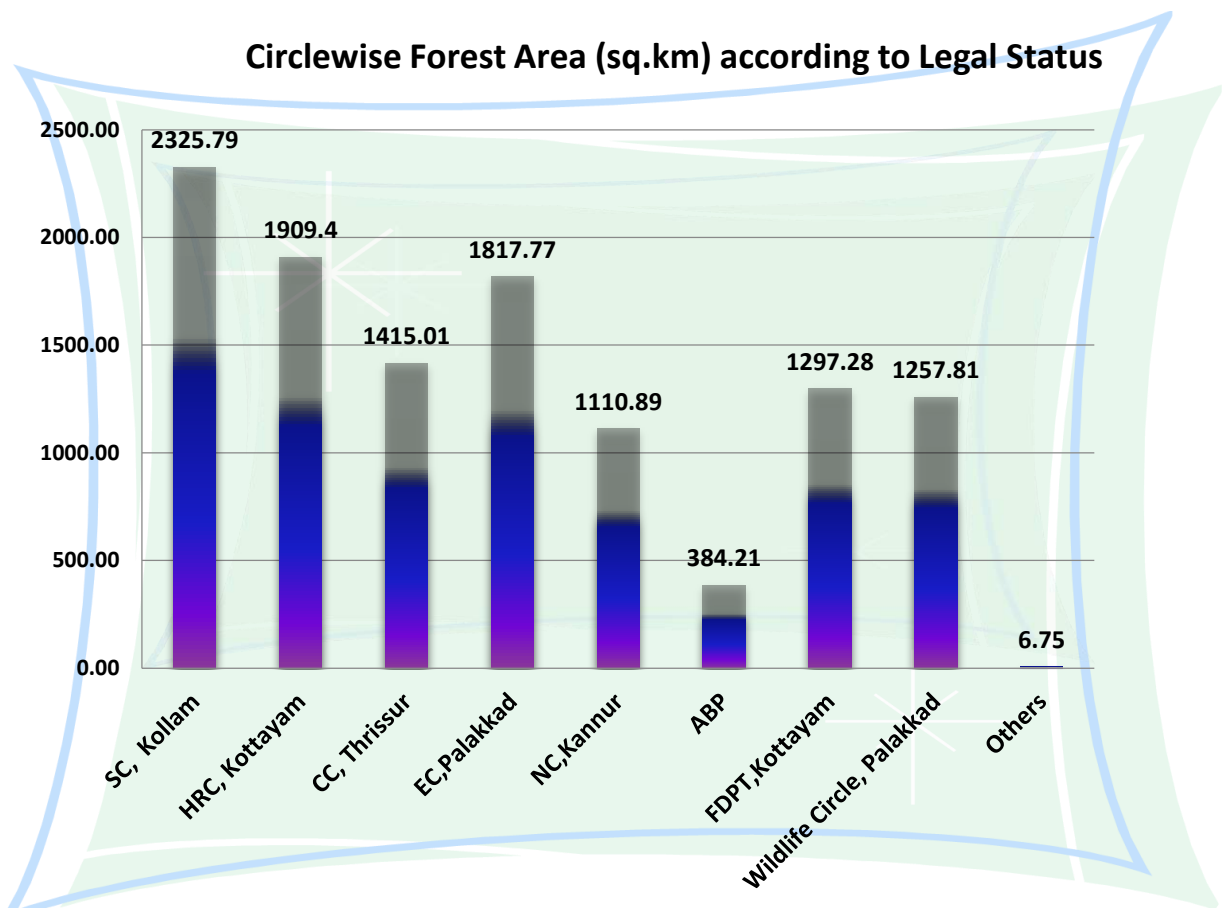


TABLE 1.4

CLASSIFICATION OF FOREST AREA ACCORDING TO UTILIZATION
AS ON 31.03.2021

No.	Mode of utilization	Area (km ²)	% of Total
1	Dense Forests / Degraded Forest	9063.850	78.65
2	Plantation	1562.040	13.55
3	Area under lease	514.900	4.47
4	Forest land diverted under FCA	384.123	3.33
TOTAL		11524.913	100

FOREST AREA UTILIZATION IN KERALA

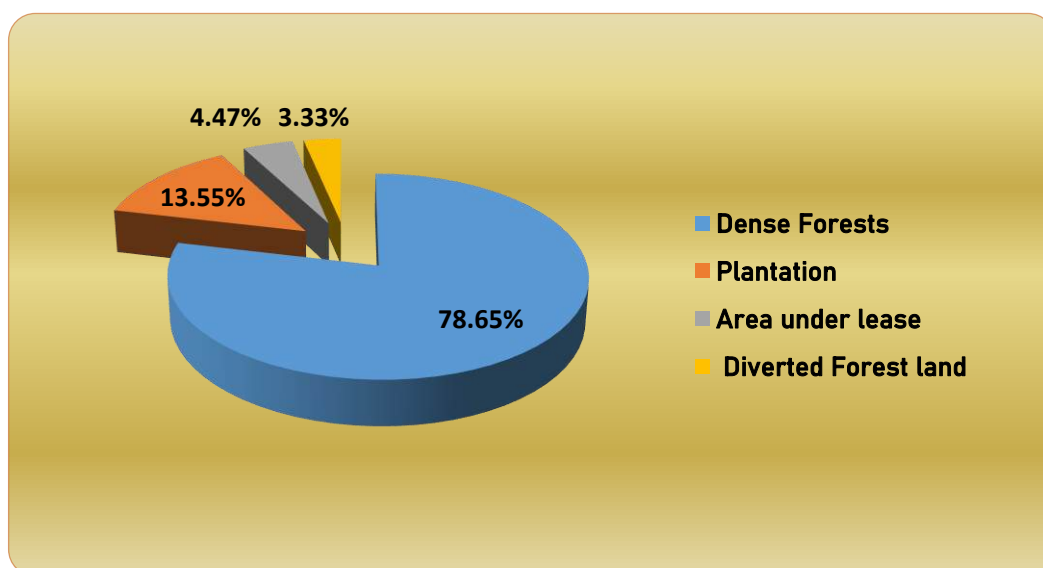


TABLE 1.5

RANGE WISE FOREST AREA AS ON 31.03.2021

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	Aryankavu	74.707
5	Thenmala	74.237
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	138.936
16	Mannarappara	129.914
KONNI DIVISION TOTAL		331.655
17	Thodupuzha	219.675
18	Kothamangalam	12.176
19	Kaliyar	49.080
20	Mullaringad	37.380
KOTHAMANGALAM DIVISION TOTAL		318.311
21	Munnar	136.361
22	Devikulam	359.682
23	Adimali	174.474
24	Neriyamangalam	102.740
MUNNAR DIVISION TOTAL		773.257
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
29	Erumeli	164.318
30	Ayyappancovil	89.892
31	Nagarampara	143.800

Sl. No.	Name of Range	Area (km ²)
32	Kumili	265.592
KOTTAYAM DIVISION TOTAL		663.602
33	Charpa	59.975
34	Vazhachal	90.643
35	Sholayar	78.350
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	56.092
43	Thundathil	131.400
44	Kuttampuzha	187.040
45	Edamalayar	170.070
MALAYATTOOR DIVISION TOTAL		610.939
46	Vadakkancherry	56.970
47	Pattikkad	82.552
48	Machad	73.625
THRISSUR DIVISION TOTAL		213.147
49	Attappadi	170.521
50	Agali	131.876
51	Mannarkkad	127.929
MANNARKKAD DIVISION TOTAL		430.326
52	Nilambur	125.317
53	Edavanna	136.691
54	Vazhikadavu	177.979
NILAMBUR NORTH DIVISION TOTAL		439.987
55	Kalikavu	61.179
56	Karulai	265.608
NILAMBUR SOUTH DIVISION TOTAL		326.787
57	Olavakkode	81.645
58	Walayar	144.454
59	Ottappalam	37.608
PALAKKAD DIVISION TOTAL		263.707

Sl. No.	Name of Range	Area (km ²)
60	Nelliyampathi	206.577
61	Kollengode	69.845
62	Alathur	80.546
NENMARA DIVISION TOTAL		356.967
63	Peruvannamoozhi	150.613
64	Kuttiyadi	39.860
65	Thamarassery	119.532
KOZHIKKODE DIVISION TOTAL		310.005
66	Begoor	106.128
67	Periya	90.096
68	Mananthavady	27.875
WAYANAD NORTH DIVISION TOTAL		224.099
69	Kalpetta	102.887
70	Meppady	116.465
71	Chethalayam (Chedaleah)	75.876
WAYANAD SOUTH DIVISION TOTAL		295.228
72	Kannavam	84.109
73	Kottiyoor	51.850
74	Thalipparamba	22.692
KANNUR DIVISION TOTAL		158.651
75	Kanjangad	60.981
76	Kasaragode	61.929
KASARAGODE DIVISION TOTAL		122.910
WILDLIFE DIVISIONS		
77	ABP, Kottoor	30.980
78	Neyyar Sanctuary	128.000
79	Peppara Sanctuary	53.000
THIRUVANANTHAPURAM DIVISION TOTAL		211.980
80	ShendurneySancutuary	172.233
SHENDURUNEY DIVISION TOTAL		172.233
81	Periyar	376.000
82	Thekkady	99.000
83	Vallakkadavu	234.675
PERIYAR EAST (THEKKADY) DIVISION TOTAL		709.675
84	Pampa	66.930

Sl. No.	Name of Range	Area (km ²)
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	Kurinjomala 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
100	Muthanga	74.293
101	SulthanBathery	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	125.000
105	Chimmini	85.067
106	Chulannur	3.437
PEECHI DIVISION TOTAL		213.504
107	Aralam	85.380
ARALAM DIVISION TOTAL		85.380

Sl. No.	Name of Range	Area (km ²)
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		11524.913

DIVERSION OF FOREST LAND

A total area of 384.1229km² has been allotted to different agencies for non-forestry purposes as per Forest Conservation Act 1980 are summarised below.

TABLE 1.6 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	8.65	26	6.71	1	0.26	1
4	Encroachment	28588.16	1	57176.00	1	0	0
5	Hydel	312.05	13	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	169.02	2	0	0	0	0
9	Road	39.64	28	48.76	5	0	0
10	School	12.96	5	25.90	2	0	0
11	Transmission line	755.34	67	739.86	10	351.99	9
12	Village electricity	29.61	72	12.91	2	0	0
13	Others	8034.69	73	85.26	5	158.20	4
Total		38412.288	319	58646.55	39	789.99	24

ECOLOGICALLY FRAGILE LAND (EFL) AREA

The state has notified an approximate extent of 13581.20 Ha declared as ecologically fragile land. Approximate extent of 1121.1673 Ha has been de-notified as per various redressal mechanism provided under EFL Act.

Division wise Ecologically Fragile land (EFL) area as on 31.03.2021 is given in table 1.7

Sl. No.	Division	Area (Ha)
1	Thiruvananthapuram	716.9
2	Thenmala	45.50
3	Achencoil	133.10
4	Punalur	15.70
5	Munnar	514.80
6	Marayoor	246.50
7	Kottayam	266.60
8	Chalakyudy	4.00
9	Thrissur	84.90
10	Mannarkkad	807.20
11	Nilambur North	962.20
12	Nilambur South	180.30
13	Palakkad	2985.60
14	Nenmara	966.20
15	Kozhikode	1602.00
16	Wayanad North	908.20
17	Wayanad South	2050.20
18	Kannur	491.00
19	Kasaragod	490.50
20	Shendurney	35.40
21	Periyar East	67.50
22	Wayanadu (WL)	5.20
23	Peechi	1.70
GRAND TOTAL		13581.20

ENCROACHMENT

Details of encroachment of forest land as on 31.03.2021 is as follows

TABLE 1.8		DETAILS OF ENCROACHMENT OF FOREST LAND AS ON 31.03.2021	
Circle	District	Division	Extent of Encroachment (Ha)
Southern Circle Kollam	Pathanamthitta	Konni	10.59
		Ranni	1.74
	Kollam	Thenmala	1.68
	Thiruvananthapuram	Thiruvananthapuram	0.59
SOUTHERN CIRCLE KOLLAM TOTAL			14.60
High Range Circle Kottayam	Ernakulam	Kothamangalam	434.04
	Kottayam	Kottayam	105.88
	Idukki	Munnar	1099.65
		Marayoor	0.03
		Mankulam	358.43
HIGH RANGE CIRCLE KOTTAYAM TOTAL			1998.03
Central Circle Thrissur	Thrissur	Thrissur	191.69
		Chalakkudy	0.26
	Ernakulam	Malayattoor	127.66
CENTRAL CIRCLE THRISSUR TOTAL			319.61
Eastern Circle Palakkad	Malappuram	Nilambur North	657.87
		Nilambur South	2.12
	Palakkad	Palakkad	37.69
		Mannarkkad	664.28
		Nenmara	237.65
EASTERN CIRCLE PALAKKAD TOTAL			1599.61
Northern Circle Kannur	Kozhikode	Kozhikode	63.68
		Kozhikkode TS	0.52
	Wayanad	Wayanad South	717.63
		Wayanad North	230.51
	Kannur	Kannur	50.66
	Kasargod	Kasargod	22.67
NORTHERN CIRCLE KANNUR TOTAL			1085.67
FIELD DIRECTOR, KTM	IDUKKI	PERIYAR EAST	4.39
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM TOTAL			4.39
Wildlife Circle Palakkad	Kannur	Aralam	2.00
	Wayanad	Wayanad WL	0.634
WILDLIFE CIRCLE PALAKKAD TOTAL			2.634
GRAND TOTAL			5024.535

FOREST COVER

The forest cover in the State based on interpretation of Forest Survey of India 2021 is 21253 km² which is 54.70 % of the state geographical area, shows that forest cover of Kerala increased by 0.52% from the previous assessment. In terms of forest canopy density classes, the State has 1944 km² area under very dense forest, 9472 km² area under moderately dense forest and 9837 km² area under open forest. Forest Cover in the State has increased 109.20km² as compared to the previous assessment reported in ISFR 2019.

TABLE 1.9		CLASSIFICATION OF FOREST COVER	
Class	Area (sq km)	% of Geographic Area	
Very Dense forest	1944	5.00	
Moderately Dense Forest	9472	24.38	
Open Forest	9837	25.32	
Total Forest Cover *	21253	54.70	
Scrub	30	0.08	
Non-forest	17569	45.22	

*Includes 9.36 sq. km. under Mangrove Cover Percentage rounded off.

Source: FSI 2021

Comparing district wise area cover in Kerala, Idukki has the largest forest cover (3155Sq.Km.) in the state followed by Palakkad (2104 Sq. km.), Malappuram (1984 Sq. Km.), Pathanamthitta (1949 Sq. Km.) and Kannur (1669 Sq. Km). Interms of percentage of forest cover with respect to total geographical area, Wayand with 74.2% has the highest forest cover, followed by Pathanamthitta (73.49%), Idukki (72.44%), Kozhikode (61.74%) and Thiruvananthapuram (60.17)

In Kerala there are 10 Hill Districts identified by Planning Commission of India, these are marked by superscript (^H) in table 1.9 and 9 Tribal Hill Districts identified by Government of India under the Integrated Tribal programme. These are marked with superscript (TH) in table 1.9.

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

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

Source: FSI 2021

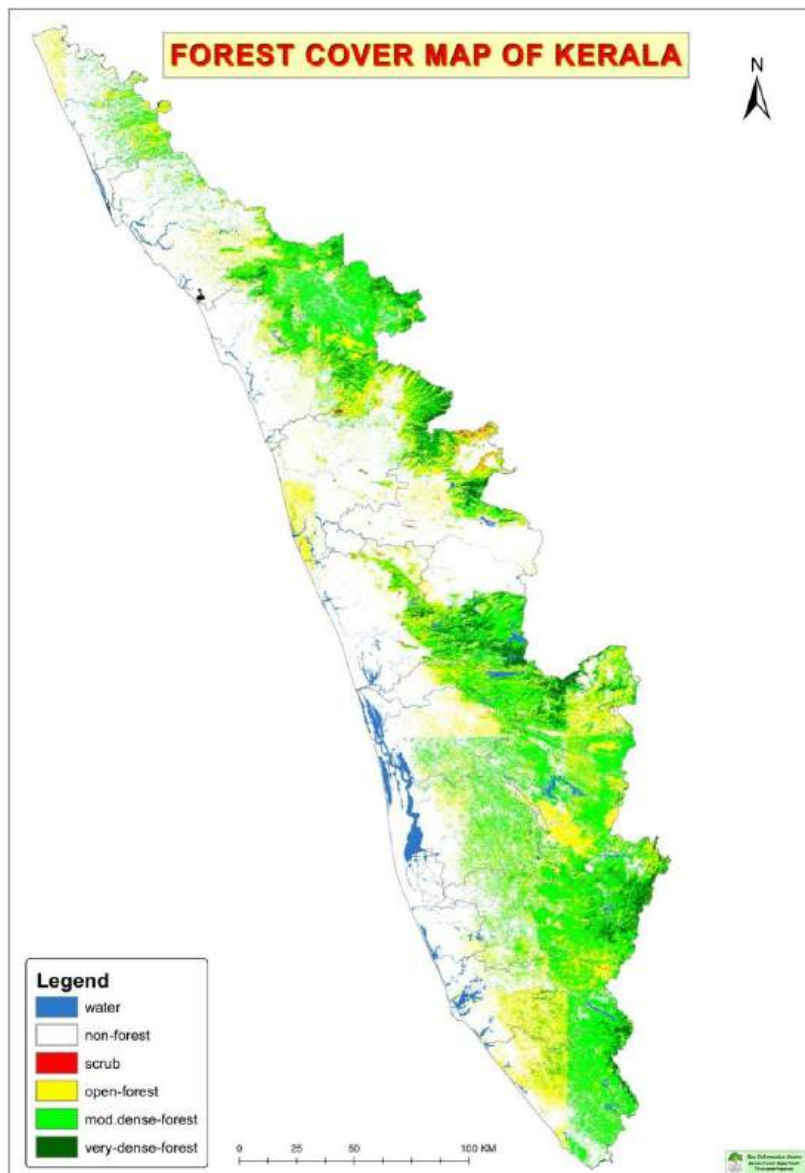
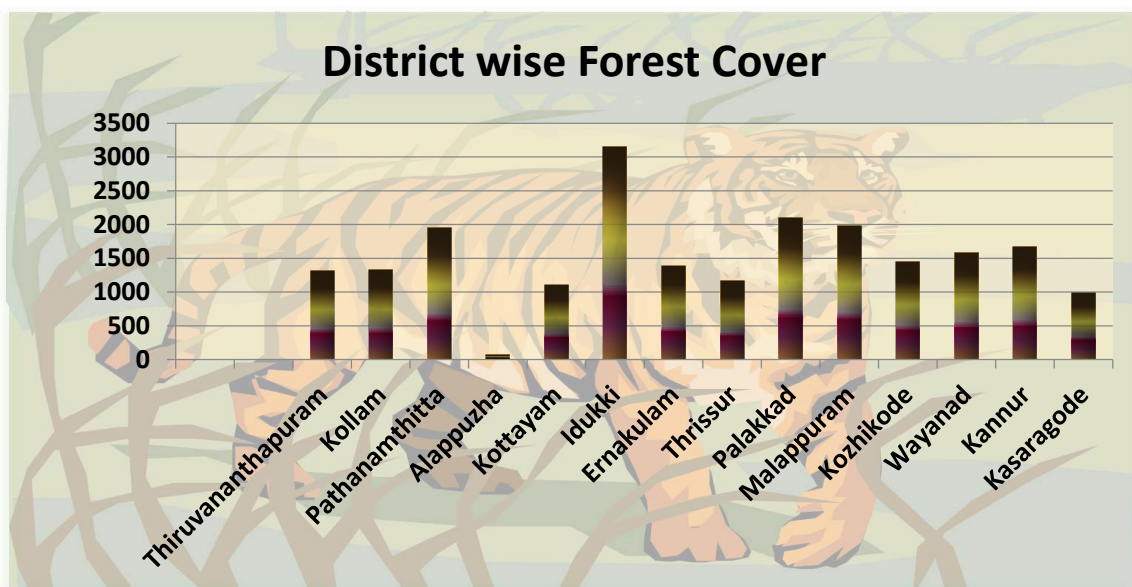


TABLE 1.10 | **DISTRICT -WISE FOREST COVER (area in sq. km.)**

District	Geographic Area	2021 Assessment				% of Geographic Area	Change wrt 2019 assessment	Scrub	Non-Forest
		Very Dense Forest	Moderately Dense Forest	Open Forest	Total Forest Cover				
Thiruvananthapuram TH	2189	59	702	556	1317	60.17	13.11	0.07	872
Kollam TH	2483	104	657	573	1334	53.72	11.27	0	1149
Pathanamthitta	2652	165	1229	555	1949	73.49	-6.6	0.51	703
Alappuzha	1415	0	27	53	80	5.69	0.64	0	1335
Kottayam	2206	11	526	562	1099	49.82	-5.24	0	1107
Idukki TH	4356	356	1783	1016	3155	72.44	4.67	2.51	1199
Ernakulam TH	3063	165	614	605	1384	45.2	18.77	5.6	1673
Thrissur	3027	219	478	469	1166	38.53	7.03	0.6	1859
Palakkad TH	4482	402	638	1064	2104	46.94	20.09	12.7	2365
Malappuram TH	3554	143	425	1416	1984	55.82	2.34	6.5	1564
Kozhikode ^H	2345	71	410	967	1448	61.74	10.85	0.8	896
Wayanad TH	2130	189	1204	187	1580	74.20	0.29	0.43	550
Kannur TH	2961	58	490	1121	1669	56.36	14.89	0.18	1292
Kasaragode TH	1989	2	289	693	984	49.45	17.09	0	1005
State Total	38852	1944	9472	9837	21253	54.70	109.2	29.9	17569

H - Hill District ; TH - Tribal Hill Districts

Source: FSI 2021



FOREST COVER IN KERALA FROM 2013 TO 2021

Year	2013	2015	2017	2019	2021
Forest Cover (in sq km)	17922	19239	20321	21144	21253

Forest cover in the state has been increasing from year to year. Forest conservation and afforestation activities are the key reasons for the increase in forest cover.

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 and rich in biodiversity and they provide numerous ecological services.

TABLE 1.11 | DISTRICT WISE MANGROVE COVER IN KERALA (km²)

Sl. No.	District	Mangrove cover			
		Very Dense	Moderate Dense	Open Forest	Total
1	Ernakulam	0	0.79	1.27	2.06
2	Kannur	0	3.89	2.50	6.39
3	Kasaragode	0	0.05	0.86	0.91
State Total		0	4.73	4.63	9.36

Source: FSI 2021

NATIONAL SCENARIO

After taking account the changes observed during assessment periods ie. ISFR 2019 and ISFR 2021, there has been increase of 1540sq. km. forest cover at the national level. The top three states showing increase in forest cover are Andhra Pradesh (647 sq. km) followed by Telangana (632sq km) and Odisha (537 sq km). The total forest cover of the country as per the India State of Forest Report 2021 is 7, 13, 789 sq. km., which constitutes 21.71 percent of the total geographical area (32, 87,469 km²) of the country. The shares of Very Dense Forest, Moderate Dense Forest, Open Forest and Scrub forest cover are 3.04%, 9.33%, 9.34% and 1.42% respectively. The mangrove cover in the country is 4,992 sq. km. which is 0.15% of the country's geographical area.

Source : FSI 2021

TABLE 1.12 STATE WISE FOREST COVER IN INDIA 2021

State/UT	Forest cover (sq km)	Geographical area (sq km)	Forest cover percentage (of geographical area)
Andhra Pradesh	29,784	1,62,968	18.28%
Arunachal Pradesh	66,431	83,743	79.33%
Assam	28,312	78,438	36.09%
Bihar	7,381	94,163	7.84%
Chhattisgarh	55,717	1,35,192	41.21%
Goa	2,244	3,702	60.62%
Gujarat	14,926	1,96,244	7.61%
Haryana	1,603	44,212	3.63%
Himachal Pradesh	15,443	55,673	27.73%
Jharkhand	23,721	79,716	29.76%
Karnataka	38,730	1,91,791	20.19%
Kerala	21,253	38,852	54.70%
Madhya Pradesh	77,493	3,08,252	25.14%
Maharashtra	50,798	3,07,713	16.51%
Manipur	16,598	22,327	74.34%
Meghalaya	17,046	22,429	76.00%

State/UT	Forest cover (sq km)	Geographical area (sq km)	Forest cover percentage (of geographical area)
Mizoram	17,820	21,081	84.53%
Nagaland	12,251	16,579	73.90%
Odisha	52,156	1,55,707	33.50%
Punjab	1,847	50,362	3.67%
Rajasthan	16,655	3,42,239	4.87%
Sikkim	3,341	7,096	47.08%
Tamil Nadu	26,419	1,30,060	20.31%
Telangana	21,214	1,12,077	18.93%
Tripura	7,722	10,486	73.64%
Uttar Pradesh	14,818	2,40,928	6.15%
Uttarakhand	24,305	53,483	45.44%
West Bengal	16,832	88,752	18.96%
Andaman and Nicobar Islands	6,744	8,249	81.75%
Chandigarh	22.88	114	20.07%
Dadra and Nagar Haveli and Daman and Diu	227.75	602	37.83%
Delhi	195	1,483	13.15%
Jammu and Kashmir	21,387	54,624	39.15%
Lakshadweep	27.1	30	90.33%
Ladakh	2,272	1,68,055	1.35%
Puducherry	53.3	490	10.88%

DEMARCATIION 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 repaired during the year under report were 2012.68 km and 9541.83 km respectively. 16993 numbers of jundas has constructed for demarcation of boundaries during 2020-21.

TABLE 1.13 DIVISION-WISE DEMARCATION OF FOREST BOUNDARIES AS ON 31.03.2021

(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. 2021	Length of boundary which require demarcation as on 31.03. 2021	Junda constructed during 2020-21 (No.)
SOUTHERN CIRCLE KOLLAM							
1	Thiruvananthapuram	397.29	53.25	344.04	240.04	104.00	3435
2	Thenmala	250	41.21	208.79	202.55	6.24	887
3	Punalur	843.55	483.00	360.55	341.77	18.78	484
4	Achencoil	221.44	85.52	135.92	128.93	6.99	0
5	Ranni	760.92	337.35	423.57	423.57	0	0
6	Konni	159.70	51.42	108.28	108.28	0	28
SC KOLLAM-DIVISION TOTAL		2632.90	1051.75	1581.15	1445.14	136.01	4834
HIGH RANGE CIRCLE KOTTAYAM							
7	Kottayam	596.14	59.00	537.14	533.99	3.15	450
8	Munnar	1407.00	115.00	1292.00	392.38	899.62	666
9	Kothamangalam	484.11	72.51	411.60	329.75	81.85	107
10	Marayoor	105.00	27.00	78.00	75.58	2.42	283

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. 2021	Length of boundary which require demarcation as on 31.03. 2021	Junda constructed during 2020-21 (No.)
11	Mankulam	211.17	58.00	153.17	140.49	12.68	159
HRC KOTTAYAM -DIVISION TOTAL		2803.42	331.51	2471.91	1472.19	999.72	1665
CENTRAL CIRCLE THRISSUR							
12	Malayattoor	720.31	409.30	311.01	307.18	3.60	0
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	0
EASTERN CIRCLE PALAKKAD							
16	Nenmara	887.85	171.70	716.15	559.34	156.81	2010
17	Palakkad	764.99	158.19	606.80	472.67	134.13	2737
18	Mannarkkad	893.00	286.00	607.00	465.11	141.89	1902
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	612
EC PALAKKAD - DIVISION TOTAL		3561.72	1100.62	2461.10	1998.46	462.64	7288

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. 2021	Length of boundary which require demarcation as on 31.03. 2021	Junda constructed during 2020-21 (No.)
NORTHERN CIRCLE KANNUR							
21	Kozhikode	815.39	175.49	639.9	552.49	87.41	614
22	Wayanadu (S)	1096.30	386.50	709.80	605.52	104.28	372
23	Wayanadu (N)	343.55	103.95	239.60	169.26	70.34	361
24	Kannur	503.35	48.00	455.35	455.35	0	0
25	Kasaragod	630.99	24.40	606.59	593.43	13.16	0
NC KANNUR- DIVISION TOTAL		3389.58	738.34	2651.24	2376.05	275.19	1347
AGASTHYAVANAM BIOLOGICAL PARK							
26	Thiruvananthapuram WL	220.10	67.50	152.60	143.17	9.43	0
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	0
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM							
28	Periyar East	207.50	50	157.50	157.50	0	0
29	Periyar West	129.67	52.00	77.67	77.67	0	0
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. 2021	Length of boundary which require demarcation as on 31.03. 2021	Junda constructed during 2020-21 (No.)
31	Munnar WL	342.00	41.50	300.50	216.14	84.36	682
FD(PT) KOTTAYAMWL DIVISION TOTAL		839.77	289.1	550.67	466.31	84.36	682
WILDLIFE CIRCLE PALAKKAD							
32	Peechi	161.90	151.07	10.83	5.85	4.98	87
33	Parambikulam	153.50	153.50	0	0	0	0
34	Silent Valley	198.23	121.92	76.31	62.37	13.94	149
35	Wayanad WL	474.00	300.60	173.40	150.59	22.81	291
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	527
SOCIAL FORESTRY SOUTHERN REGION KOLLAM							
37	SF Alappuzha	0	0	0	0	0	650
ALAPPUZHA - S F DIVISION TOTAL		0	0	0	0	0	650
GRAND TOTAL		16845.81	5291.07	11554.74	9541.83	2012.68	16993

CHAPTER-2 FOREST PLANTATIONS

FOREST PLANTATIONS

The total plantation area under the department as on 31.03.2021 is 156204.017 Ha, which comes to 13.55% of the total forest area. Considering species wise distribution of plantation, Teak covers an extent of 76776.696 Ha which is 49.15% 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	132362.544
2	Wildlife Divisions	23241.346
3	NSC, Kalady	600.127
STATE TOTAL		156204.017

TABLE 2.2 SPECIES WISE DISTRIBUTION OF PLANTATION ABSTRACT			
Sl. No.	Plantation	Area (Ha)	Percentage
1	Hardwood	82767.622	52.99
2	Softwood	11965.214	7.66
3	Bamboo, Cane & Reeds	9240.345	5.91
4	Mangrove	371.068	0.24
5	Others	51859.768	33.20
STATE TOTAL		156204.017	100%

TABLE 2.3 DIVISION WISE AREA OF PLANTATION (SPECIES-WISE) AS ON 31.03.2021 (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	3080.150	585.240	1207.590	156.220	0	5029.200
4	Achenkovil	3301.668	0	3781.652	1338.971	0	8422.291
5	Ranni	4229.020	123.870	1874.910	397.410	0	6625.210
6	Konni	8477.820	51.040	912.620	611.000	0	10052.480
7	Kottayam	4081.041	356.729	1290.801	344.400	0	6072.971
8	Munnar	790.520	4399.200	1326.780	646.460	0	7162.960
9	Kothamangalam	4759.274	321.760	1580.803	244.150	0	6905.987
10	Marayoor	2.000	820.780	94.400	90.800	0	1007.980
11	Mankulam	42.250	117.600	325.630	408.350	0	893.830
12	Malayattoor	5043.610	27.550	2901.130	74.700	0	8046.990
13	Vazhachal	3830.980	479.510	2725.150	330.940	0	7366.580
14	Chalakkudy	4559.630	107.800	1107.470	38.600	0	5813.500
15	Thrissur	2270.220	249.620	4478.936	0	0	6998.776

Sl. No.	Division	Hard wood	Soft wood	Others	Bamboo, cane and reeds	Mangroves	Total
16	Nenmara	1280.108	110.420	1454.135	88.540	0	2933.203
17	Palakkad	1860.810	108.820	1424.590	173.430	0	3567.650
18	Mannarkkad	426.860	143.920	626.900	50.000	0	1247.680
19	Nilambur (South)	4572.841	0	437.416	187.500	0	5197.757
20	Nilambur (North)	4195.104	99.580	3110.007	1251.484	0	8656.175
21	Kozhikkode	26.240	316.450	31.750	11.000	0	385.440
22	Wayanad (South)	2332.100	1055.040	1820.680	206.000	0	5413.820
23	Wayanad (North)	610.740	416.260	2968.070	550.600	0	4545.670
24	Kannur	441.161	543.115	3645.919	102.100	251.979	4984.274
25	Kasaragod	1052.908	0	1863.476	467.212	119.089	3502.685
26	Thiruvananthapuram WL	42.580	166.100	1155.411	1166.468	0	2530.559
27	Peechi WL	457.427	0	1795.754	132.250	0	2385.431
28	Parambikulam WL	8747.466	0	0	0	0	8747.466
29	Silent valley WL	576.300	57.890	0	0	0	634.190
30	Wayanad WL	7320.590	425.000	876.810	0	0	8622.400
31	Aralam WL	291.300	0	30.000	0	0	321.300
32	NSC,Kalady	162.217	0	414.410	23.500	0	600.127
STATE TOTAL		82767.622	11965.214	51859.768	9240.345	371.068	156204.017

TABLE 2.4 SPECIES WISE DISTRIBUTION OF PLANTATION

Sl. No.	Species	Area (Ha)	% to total plantation
1	Teak	76776.696	49.15
2	Teak & soft wood	13455.930	8.61
3	Mangium	2820.755	1.81
4	Acacia auriculoformis	7728.068	4.95
5	Eucalyptus	6821.030	4.37
6	Cane	3435.003	2.20
7	Bamboo	5231.992	3.35
8	Rosewood	375.056	0.24
9	Mahogany	527.102	0.34
10	Sandalwood	358.880	0.23
11	Other Hardwood	1074.364	0.69
12	Reeds	573.350	0.37
13	Pepper	103.940	0.07
14	Medicinal plants	3181.039	2.03
15	Gravelia Robusta	550.630	0.35
16	Pine	546.400	0.35
17	Albezzia	202.290	0.13
18	Anjili	589.609	0.38
19	Kambakam	245.160	0.15
20	Elavu	303.51	0.19
21	Rubber	42.100	0.03
22	Balsa	21.040	0.01
23	Wattle	2122.570	1.36
24	Matti	436.310	0.28
25	Cashew	4397.164	2.81
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	99.220	0.06
31	Mangroves	371.068	0.24
32	Fruit bearing trees	305.543	0.20
33	Miscellaneous	23284.268	14.90
STATE TOTAL		156204.017	100

TABLE 2.5 DIVISION WISE AREA OF PLANTATION (SPECIES-WISE) AS ON 31.03.2021 (Area in Ha)

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Acacia 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	332.130	619.910	10.000	21.500	0	0	0
3	Punalur	1391.830	299.850	1567.150	578.64	585.240	0	156.220	0	0	0
4	Achencoil	3028.122	1059.977	0	0	0	1142.771	144.000	273.546	0	0
5	Ranni	3627.690	984.480	24.320	228.130	0	96.270	115.680	3.000	68.000	0
6	Konni	8280.820	0	0	326.370	30.000	336.500	274.500	72.000	0	0
	Total	18526.584	2833.102	2529.228	3254.637	1471.060	1585.541	825.660	348.546	68.000	0
II	HIGH RANGE CIRCLE KOTTAYAM										
7	Kottayam	3994.445	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	4657.157	0	68.777	45.220	161.310	168.950	75.200	8.100	15.240	0
10	Marayoor	0	0	0	50.000	20.000	0	90.800	0	0	2.000
11	Mankulam	0	0	12.750	0	50.000	68.560	53.100	0	3.500	0
	Total	9442.122	78.000	81.527	151.220	2826.68	378.110	1069.360	8.100	18.740	2.000

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	121.170	0	0	131.340	0	0	0	0	0	0	0
4	Achencoil	0	52.200	0	337.115	0	0	0	0	0	0	0
5	Ranni	506.010	185.460	3.940	0.130	0	0	0	0	0	34.570	0
6	Konni	0	0	0	231.750	0	0	0	0	125.000	0	0
TOTAL		756.320	240.660	3.940	1501.191	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	21.35	0	0	55.000	10.000	0	11.550	0
10	Marayoor	0	0	0	0	0	0	0	0	0	0	0
11	Mankulam	23.000	286.690	0	83.800	67.600	0	0	0	3.000	0	0
TOTAL		100.694	286.690	0	113.650	152.920	546.400	55.000	18.902	3.000	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	25	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	2609.730	5799.040
3	Punalur	0	0	0	0	0	0	0	0	0	0	0	197.760	5029.200
4	Achencoil	0	0	0	0	0	0	0	0	0	0	0	2384.560	8422.291
5	Ranni	0	0	0	0	0	0	0	0	0	0	0	747.530	6625.210
6	Konni	21.040	0	0	0	0	0	0	0	0	0	0	354.500	10052.480
TOTAL		21.040	0	13.100	158.500	0	0	0	0	0	0	0	6717.270	41658.616
II	HIGH RANGE CIRCLE KOTTAYAM													
7	Kottayam	0	0	0	0	0	0	0	0	0	0	0	1178.310	6072.971
8	Munnar	0	1320.790	133.800	0	0	61.60	0	0	0	0	0	1265.180	7162.960
9	Kothamangalam	0	0	93.900	46.000	0	0	0	0	0	0	0	1468.233	6905.987
10	Marayoor	0	800.780	0	0	0	0	0	0	0	0	0	44.400	1007.980
11	Mankulam	0	0	0	0	0	12.75	0	0	0	0	0	229.080	893.8300
TOTAL		0	2121.570	227.700	46.000	0	74.35	0	0	0	0	0	4185.203	22043.728

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Acacia 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	4875.110	2656.310	145.000	121.700	17.250	0	74.700	0	0	0
13	Vazhachal	3780.780	1676.420	0	10.000	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		15467.330	5202.710	145.000	2622.246	410.730	163.660	280.580	18.410	0	0
IV	EASTERN CIRCLE PALAKKAD										
17	Nenmara	1171.348	6	0	431.657	110.420	22.240	66.300	0	2.380	100.320
18	Palakkad	1848.180	76.600	0	55.820	41.920	65.880	107.550	0	0	0
19	Mannarkkad	411.660	0	0	164.540	143.920	17.400	32.600	0	0	0
20	Nilambur (S)	4572.841	206.764	0	57.620	0	153.500	34.000	0	0	0
21	Nilambur (N)	4052.429	0	0	0	41.580	421.560	829.924	0	142.675	0
TOTAL		12056.458	289.364	0	709.637	337.840	680.580	1070.374	0	145.055	100.320

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
III	CENTRAL CIRCLE THRISSUR											
12	Malayattoor	23.500	0	0	0	0	0	0	0	0	0	0
13	Vazhachal	0	0	0	150.750	76.550	0	86.050	0	50.200	105.350	0
14	Chalakkudy	0	0	0	0	0	0	0	0	0	107.800	0
15	Thrissur	0	0	0	38.250	0	0	0	0	0	0	0
16	T S, Perumbavoor	0	0	0	0	0	0	0	0	0	0	0
TOTAL		23.500	0	0	189.000	76.550	0	86.050	0	50.200	213.150	0
IV	EASTERN CIRCLE PALAKKAD											
17	Nenmara	6.060	0	0	11.280	0	0	0	0	0	0	0
18	Palakkad	12.630	0	0	84.520	0	0	0	0	0	0	0
19	Mannarkkad	15.200	0	0	62.820	0	0	0	0	0	0	0
20	Nilambur (S)	0	0	0	78.360	0	0	0	0	0	0	0
21	Nilambur (N)	0	0	0	198.778	0	0	0	0	0	0	0
TOTAL		33.890	0	0	435.758	0	0	0	0	0	0	0

Sl No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total Plantation
1	2	24	25	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	123.120	8046.990
13	Vazhachal	0	0	0	0	0	0	21.070	0	0	0	0	866.910	7366.580
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	58.700	6998.776
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	21.070	0	0	0	0	1048.730	28225.846
IV	EASTERN CIRCLE PALAKKAD													
17	Nenmara	0	0	0	180.440	0	0	0	0	40.000	0	0	784.758	2933.203
18	Palakkad	0	0	66.900	17.170	0	0	0	32.630	0	0	5.000	1152.850	3567.650
19	Mannarkkad	0	0	0	152.710	9.640	0	0	0	0	0	0	237.190	1247.680
20	Nilambur (S)	0	0	0	0	0	0	0	0	0	0	0	94.672	5197.757
21	Nilambur (N)	0	0	0	284.009	0	0	0	0	0	0	0	2685.220	8656.175
TOTAL		0	0	66.9000	634.329	9.640	0	0	32.630	40.000	0	5.000	4954.690	21602.465

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Acacia 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	0	0	293.880	703.980	30.000	166.000	0	4.000	0
24	Wayanadu (N)	483.700	1017.030	65.000	192.800	201.640	195.600	319.000	0	62.040	0
25	Kannur	367.273	2409.295	0	238.830	0	102.100	0	0	73.888	0
26	Kasaragod	818.849	30.352	0	182.918	0	299.412	167.800	0	155.379	57.720
TOTAL		4024.162	3456.677	65.000	918.428	1222.070	627.112	663.800	0	295.307	57.720
VI	AGASTHYAVANAM BIOLOGICAL PARK										
27	Thiruvananthapuram	42.580	0	0	58.500	69.760	0	1166.468	0	0	0
TOTAL		42.580	0	0	58.500	69.760	0	1166.468	0	0	0
VII	WILDLIFE CIRCLE PALAKKAD										
28	Peechi	457.427	719.267	0	0	0	0	132.250	0	0	0
29	Parambikulam	8747.466	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	7121.750	876.810	0	0	425.000	0	0	0	0	198.840
32	Aralam	291.300	0	0	0	0	0	0	0	0	0
TOTAL		17055.243	1596.077	0	0	482.890	0	132.250	0	0	198.840

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
V	NORTHERN CIRCLE KANNUR											
22	Kozhikode	0	0	0	0	0	0	0	0	0	0	0
23	Wayanadu (S)	0	10.000	0	70.060	321.160	0	0	0	0	0	0
24	Wayanadu (N)	0	36	30.000	237.820	0	0	0	0	0	0	0
25	Kannur	0	0	70.000	93.260	0	0	0	0	0	0	0
26	Kasaragod	20.960	0	0	47.400	0	0	0	0	0	0	0
	TOTAL	20.960	46.000	100.00	448.540	321.160	0	0	0	0	0	0
VI	AGASTHYAVANAM BIOLOGICAL PARK											
27	Thiruvananthapuram	0	0	0	398.650	0	0	54.240	0	0	0	42.100
	TOTAL	0	0	0	398.650	0	0	54.240	0	0	0	42.100
VII	WILDLIFE CIRCLE PALAKKAD											
28	Peechi	0	0	0	73.000	0	0	0	0	0	0	0
29	Parambikulam	0	0	0	0	0	0	0	0	0	0	0
30	Silent Valley	139.000	0	0	0	0	0	0	0	0	0	0
31	Wayanad	0	0	0	0	0	0	0	0	0	0	0
32	Aralam	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	139.000	0	0	73.000	0	0	0	0	0	0	0

Sl No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total Plantation
1	2	24	25	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	51.500	0	0	1435.140	5413.820
24	Waynadu (N)	0	1	78.310	12.14	0	0	0	0	7.720	0	0	1605.870	4545.670
25	Kannur	0	0	0	107.250	0	0	0	0	0	251.979	0	1270.399	4984.274
26	Kasaragod	0	0	0	1127.715	0	0	0	86.240	0	119.089	0	388.851	3502.685
TOTAL		0	1	78.310	1268.855	0	0	0	86.240	59.220	371.068	0	4700.260	18831.889
VI	AGASTHYAVANAM BIOLOGICAL PARK													
27	Thiruvananthapuram	0	0	0	25.000	0	0	0	0	0	0	300.543	372.718	2530.559
TOTAL		0	0	0	25.000	0	0	0	0	0	0	300.543	372.718	2530.559
VII	WILDLIFE CIRCLE PALAKKAD													
28	Peechi	0	0	0	35.000	0	0	0	0	0	0	0	968.487	2385.431
29	Parambikulam	0	0	0	0	0	0	0	0	0	0	0	0	8747.466
30	Silent Valley	0	0	0	0	0	0	0	0	0	0	0	0	634.190
31	Waynad WL	0	0	0	0	0	0	0	0	0	0	0	0	8622.400
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	968.487	20710.787

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Acacia 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		76776.696	13455.930	2820.755	7728.068	6821.030	3435.003	5231.992	375.056	527.102	358.880	
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	21.250	0	0	0	0	0	0	0
TOTAL		0	0	0	21.250	0	0	0	0	0	0	0
GRAND TOTAL		1074.364	573.350	103.940	3181.039	550.630	546.400	202.290	589.609	245.160	303.510	42.100

Sl No.	Divisions	Balsa	Wattle	Matti	Cashew	Agave	Alnus	Sesbania	Casuarina	Silver oak	Mangroves	Fruit bearing	Misc	Total Plantation
1	2	24	25	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	336.910	600.127
TOTAL		0	0	0	42.850	0	0	0	0	0	0	0	336.910	600.127
GRAND TOTAL		21.040	2122.570	436.310	4397.164	9.640	74.350	21.070	118.87	99.220	371.068	305.543	23284.268	156204.017

TABLE 2.6 DETAILS OF PLANTATIONS AFFECTED BY FIRE DURING 2020-21 (Area in Ha)

Sl NO	Divisions	Teak	Bamboo	Miscellaneous	Total
1	Thenmala	24.29	0	0	24.29
2	Achenkovil	4.50	0.00	0.00	4.50
3	Kothamangalam	1.00	0.00	0.00	1.00
4	Thrissur	1.25	3.000	0.00	4.25
5	Chalakkudy	1.00	0.00	0.00	1.00
6	Palakkad	3.00	0.00	0.00	3.00
7	Nilambur North	6.50	0.00	1.75	8.25
8	Nilambur South	5.50	0.00	5.50	11.00
9	Wayanad South	3.00	0.00	0.00	3.00
TOTAL		50.04	3.00	7.25	60.29

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 AS ON 31.03.2021		
Sl. No.	Speceis	Area (Ha)
1	Teak	1259.080
2	Acacia Auriculiformis /Acacia Manjium /Acacia Crassicarpa	1785.647
3	Eucalyptus	2174.279
4	Cardamom	253.700
5	Mahagony	9.400
6	Bamboo	694.576
7	Melia Dubia	8.250
8	Casurina	6.020
9	Tea	100.670
10	Coffee	606.167
11	Cashew	324.063
12	Rubber	57.936
13	Pepper	3.800
14	Sandal	17.970
15	Red Sanders	80.977
16	Albizia	62.95
17	Gmelina	47.884
18	Miscellaneous	16.750
TOTAL		7510.119

CHAPTER-3

RESOURCES

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 2020-21	
Sl. No.	Category	Unit	Quantity
1	Industrial wood	M ³	18623.520
2	Ply wood	M ³	555.551
3	Match wood	M ³	405.261
4	Bobbin wood	M ³	95.060
5	Pencil wood	M ³	5.558
6	Packing case wood	M ³	86.596
7	Pulpwood	MT	1083.146
8	Miscellaneous		
	a Teak Poles	M ³	1748.445
	b Fire wood	MT	3437.941
	c Sandal wood	Kg	77872.696
	d Billetts	MT	807.548

PROCUREMENT OF NON TIMBER FOREST PRODUCE (NTFP)

TABLE 3.2		PROCUREMENT OF NON TIMBER FOREST PRODUCE DURING 2020-21	
Sl. No.	Name	Quantity (kg)	
1	Ayurvedic herbs	500733.04	
2	Spices	17396.000	
3	Fibre	1398.000	
4	Grass other than fodder	17685.200	

Sl. No.	Name	Quantity (kg)
5	Medicinal Plants/ Trees	127267.900
6	Honey	26115.700
7	Bee Wax	226.000

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 690.822 tonnes and ₹320.613 lakhs respectively.

Details on species wise procurement and value of Minor Forest Produce during 2020-21.

TABLE 3.3 DETAILS ON SPECIES WISE PROCUREMENT AND VALUE OF MINOR FOREST PRODUCE DURING 2020-21				
Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
1	Adalodakam (Pacha)	25677.00	10.68	274176.00
2	Athithippali	9435.00	70.30	663320.00
3	Broom Grass	17605.00	40.00	704200.00
4	Cheevakkai	100.00	40.00	4000.00
5	Cheenikka	110146.00	45.74	5037944.50
6	Cheruthekku	419.00	69.76	29230.00
7	Cheruthen	79.20	1231.94	97570.00
8	Cheruvazhuthana	45957.00	49.72	2285201.00
9	Chenchelyam	160.00	150.00	24000.00
10	Chittaratha	116.00	120.00	13920.00
11	Chunda Pacha	107683.00	13.97	1504678.00
12	Derpha Pullu	80.20	68.37	5483.00
13	Garudakodi	6.40	10.00	64.00
14	Inchi	147	53.95	7930.00
15	Kakkumkai-Parantakai	1486.300	31.52	46854.00
16	Kalpasam	928.000	290.95	270000.00

Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
17	Karimkurinji	96250.70	13.67	1315616.00
18	Kasturimanjal	558.50	84.70	47303.00
19	Kattukurumulaku valli 1st	1374.00	45.07	61925.00
20	Kattukurumulaku valli 2nd	270.90	24.45	6623.50
21	Koduvalli	1100.00	47.88	52666.67
22	Kattu Mulakin Thandu	7357.00	49.62	365062.00
23	Kattu Padavalam	6447.00	104.53	673930.00
24	Kolinchi	113.00	71.15	8040.00
25	Koovalam	775.00	25.00	19375.00
26	Koppuvella	110.00	150.00	16500.00
27	Kudampuli	320.00	144.38	46200.00
28	Kumil	1862.00	9.00	16758.00
29	Kunthirikkam - 1st	1931.45	206.76	399347.50
30	Kunthirikkam - 2nd	352.15	142.07	50028.50
31	Kunthirikkam - 3rd	797.25	90.92	72484
32	Kurunthotti Vella	15251.00	46.32	706440
33	Kurunthotti Pacha	121596.00	21.89	2661303.00
34	Moovila	15253.00	58.57	893415.00
35	Moovila (Pacha)	7000.00	15.71	110000.00
36	Manjavally	276.05	59.62	16457.50
37	Nannari / Naruneendi	3284.00	50.37	165420.00
38	Orila dry	6530.00	53.05	346440.00
39	Orila Pacha	36516.00	16.36	597288.00
40	Orila dry (Red)	2414.00	45.00	108630.00
41	Pachotti patta	4854.30	88.63	430242.85
42	Padakizhangu	462.14	397.21	183566.00
43	Pathiripoovu 1st	612.15	474.08	290210.00
44	Pathiripoovu 2nd	61.00	333.61	20350.00
45	Pattincha/Incha	1398.00	108.91	152258.00

Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
46	Peenari	3070.00	46.72	143430.00
47	Pollakuru	218.00	35.00	7630.00
48	Ponkurandi	1721.00	74.42	128085.00
49	Putharichundai	2136.00	35.00	74760.00
50	Soapinkai	71.00	19.08	1355.00
51	Thelli	722.00	159.39	115080.00
52	Thelli 2nd	1369.65	95.46	130740.00
53	Vanthen	26036.50	404.62	10534809.50
54	Vianapoovu	100.00	1100.00	110000.00
55	Wax (Bee Wax)	226.00	57.52	13000.00
TOTAL		690821.84		32061339.52

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 2020-21 is shown in below table.

TABLE 3.4 SPECIES WISE RECEIPTS OF MAJOR FOREST PRODUCE DURING 2020-21			
Sl. No.	Species	Unit	Quantity
INDUSTRIAL WOOD			
1	Teak	M ³	11853.431
2	Rosewood	M ³	64.049
3	Mahogany	M ³	2993.405
4	Anjili	M ³	266.039
5	Kambakom	M ³	15.165
6	Thembavu / Karimaruthu	M ³	47.899
7	Vengai	M ³	26.547
8	Venteak	M ³	314.932
9	Jack/ Plavu	M ³	30.739
10	Manimaruthu	M ³	31.987

Sl. No.	Species	Unit	Quantity
11	Maruthu	M ³	1227.921
12	Irul	M ³	961.691
13	Mulluvengai	M ³	171.173
14	Unnam/Chadachi	M ³	284.232
15	Thanni	M ³	250.560
16	Karimthakara	M ³	15.687
17	Pathiri	M ³	9.046
18	Poovam	M ³	37.054
19	Kunnivaka	M ³	8.650
20	Kanjiram	M ³	3.326
21	Mullankaini	M ³	0.400
22	Vediplavu	M ³	9.587
TOTAL			18623.520
PLYWOOD			
1	Kulamavu / Ooravu	M ³	62.014
2	Mavu	M ³	14.427
3	Redcedar/ Chandanavembu	M ³	58.379
4	Poon/Punna/Punnappa	M ³	72.995
5	Cheeni	M ³	40.671
6	Kumbil	M ³	4.899
7	Njaval / Njara	M ³	78.294
8	Chorakali	M ³	26.453
9	Silver Oak	M ³	33.207
10	Vatta	M ³	151.677
11	Karuva	M ³	7.879
12	Vellapine	M ³	4.656
TOTAL			555.551
MATCHWOOD			
1	Elavu/Poola	M ³	278.684
2	Pala / Mukkampala	M ³	74.072
3	Vaka	M ³	13.792
4	Matti	M ³	38.713
TOTAL			405.261
BOBBINWOOD			
1	Akil/Vellakil	M ³	22.883
2	Manjakadambu	M ³	13.860

Sl. No.	Species	Unit	Quantity
3	Kurangagatti	M ³	58.317
TOTAL			95.060
PENCIL WOOD SPECIES			
1	Poochakadambu	M ³	1.910
2	Mazhamaram	M ³	3.648
TOTAL			5.558
PACKING CASE WOOD			
1	Malaveppu	M ³	12.373
2	Vetti	M ³	5.330
3	Ambazham	M ³	19.069
4	Karingazha / Poopathiri	M ³	6.344
5	Uthi	M ³	18.496
6	Pali	M ³	24.984
TOTAL			86.596
PULPWOOD			
1	Eucalyptus	MT	7.773
2	Acacia Auriculoformis	MT	82.585
3	Acacia Mangium	MT	13.180
4	Bamboo	MT	60.668
5	Reeds	MT	918.94
TOTAL			1083.146
MISCELLANEOUS			
1	Fire wood/ Billets	M ³	3437.941
2	Sandal wood	M ³	77872.696
3	Teak Poles	M ³	1748.445
4	Billetts	M ³	807.548

TABLE 3.5 CIRCLEWISE DETAILS OF MAJOR FOREST PRODUCE 2020-21

Sl. No	Production	Unit	Southern Circle		High Range Circle		Central Circle		Eastern Circle		Northern Circle		Wildlife, Tvpm		Total	
			Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value
1	Teak	M ³	4297.696	2630.150	10.839	6.630	3252.885	1990.730	1927.25	1179.460	2364.76	1447.210	0.000	0.000	11853.43	7254.180
2	Other Timber	M ³	2058.811	287.663	911.424	158.274	738.517	131.519	1074.19	188.657	3135.177	823.655	0.000	0.000	7918.115	1589.768
3	Teak Poles	M ³	528.360	98.920	0.000	0.000	409.826	76.730	369.529	69.190	440.730	82.520	0.000	0.000	1748.445	327.360
Total			6884.867	3016.733	922.263	164.904	4401.228	2198.979	3370.966	1437.307	5940.667	2353.385	0.000	0.000	21519.991	9171.308
1	Fire Wood	MT	1164.680	78.650	669.680	45.220	862.590	58.250	413.541	27.930	327.450	22.110	0.000	0.000	3437.941	232.160
2	Billets	MT	685.550	143.000	18.800	3.920	28.948	6.040	3.250	0.680	71.000	14.810	0.000	0.000	807.548	168.450
3	Acacia	MT	0.000	0.000	26.835	3.470	22.330	2.890	2.600	0.330	0.000	0.000	44.000	5.680	95.765	12.370
4	Eucalyptus	MT	0.000	0.000	7.2730	0.9700	0.5000	0.0600	0.000	0.000	0.000	0.000	0.000	0.000	7.773	1.030
5	Bamboo	MT	0.938	0.060	0.000	0.000	20.000	1.320	0.000	0.000	39.730	2.620	0.000	0.000	60.668	4.000
6	Reeds	MT	721.5	31.74	0.000	0.000	197.440	8.690	0.000	0.000	0.000	0.000	0.000	0.000	918.940	40.430
Total			2572.668	253.450	722.588	53.580	1131.808	77.250	419.391	28.940	438.180	39.540	44.000	5.680	5328.635	458.440
Grand Total			9457.535	3270.183	1644.851	218.484	5533.036	2276.229	3790.357	1466.247	6378.847	2392.925	44.000	5.680	26848.626	9629.748

TABLE 3.6

TIMBER STATISTICS FROM TIMBER SALE DIVISIONS FOR THE YEAR 2020-21

Sl. No.	Division	Opening Balance	Receipt during the year (in cum)	Timber sold During the Year						Closing Bal. of Timber within the Division (kg/cum)
				In Auction			Direct (Retail)			
				Qty (kg/cum)	Average price (Rs.)	Amount Released (Rs)	Qty (kg/cum)	Average price (Rs.)	Amount Released (Rs)	
Name of Species : Teak										
1	TS, TVPM	654.623	1303.279	1254.352	2532332	91281618	108.813	369062	10930770	594.422
2	TS, PNLR	2535.709	2203.000	3249.503	72156	234470185	44.097	89520	3947549	1445.109
3	TS, KTM	2038.307	256.812	2204.974	60597	133615573	67.643	112216	7590624	90.145
4	TS, PMBVR	148.85	2205.605	1471.7	69989	103001643	31.732	93953	2981319	851.037
5	TS, PKD	3934.624	3992.468	5471.422	80085.39	438180938	88.311	243637	6863005	2367.359
Name of Species : Rosewood										
1	TS, PNLR	9.653	18.057	12.31	96492	1187812	0	0	0	15.4
2	TS, KTM	25.58	19.913	37.432	101770	3809459	0	0	0	8.061
3	TS, PMBVR		14.512	12.411	207970	2581121	0	0	0	2.101
4	TS, PKD	11.877	50.295	48.363	136579.7	6605405	0	0	0	13.809
Name of Species : Poles										
1	TS, PKD	7.918	0	0	0	0	0	0	0	7.918
Name of Species : Miscellaneous										
1	TS, TVPM	61.958	553.927	345.436	1374910	5229770	0	0	0	270.449
2	TS, PNLR	184.3	2011.039	1692.091	20341	18161154	0	0	8.535	494.713
3	TS, KTM	1082.68	38.118	1082.474	10968	11872476	0	0	0	38.324
4	TS, PMBVR	13.188	630.295	174.19	23434	4082084	0	0	0	469.289
5	TS, PKD	419.106	1115.233	996.866	19568.27	19506941	0	0	0	537.473

HUMAN RESOURCES

STAFF STRENGTH

Sl. No.	Name of post	Sanctioned Strength	In Position
1	Principal Chief Conservator of Forests*	5	5
2	Addl. Principal Chief Conservator of Forests*	6	6
3	Chief Conservator of Forests	11	11
4	Conservator of Forests	13	13
5	Dy. Conservator of Forest (IFS Cadre)	35	35
6	Addl. Dy. Conservator of Forests	3	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	2
13	Asst. Conservator of Forests / Deputy Conservator of Forests (NC)	101	101
14	Senior Administrative Assistant	9	7
15	Administrative Assistant	12	12
16	Personal Assistant	3	2
17	Senior Superintendent	34	33
18	Range Forest Officer	205	201
19	Deputy Range Forest Officer	168	164
20	Public Relation Officer	1	1
21	Assistant Forest Public Relation Officer	3	3
22	Junior Superintendent	71	71
23	Head Accountant	74	73
24	Research Assistant**	3	4
25	Senior Grade Wildlife Assistant	2	1

Sl. No.	Name of post	Sanctioned Strength	In Position
26	Wildlife Assistant	8	7
27	Senior Clerk	443	433
28	Clerk	446	439
29	Statistical Assistant Grade. II & I	34	32
30	Faircopy Superintendent	8	8
31	Selection Grade Typist	33	33
32	Senior Grade Typist	33	20
33	Typist Clerk	1	0
34	UD Typist	33	33
35	LD Typist	34	34
36	Confidential Assistant	39	35
37	Legal Assistant	1	1
38	Section Officer (Law)	1	1
39	Chief Forest Veterinary Officer	1	1
40	Asst. Forest Veterinary Officer	14	8
41	Forest Veterinary Officer	1	1
42	Veterinary Doctor	1	0
43	Documentation Officer	1	0
44	Asst. Director (Survey)	1	1
45	Survey Superintendent	2	1
46	Head Surveyor	2	2
47	Surveyor Grade I & II	66	37
48	Bench Clerk (on deputation)	1	0
49	Section Forest Officer	992	925
50	Beat Forest Officer	2647	2535
51	Sheristadar cum Secretary	1	1
52	Head Draftsman	2	2
53	Draftsman	45	31
54	Circle Inspector of Police	2	1
55	Sub Inspector of Police	4	0
56	Senior Civil Police Officer	22	3
57	Civil Police Officer	110	28

Sl. No.	Name of post	Sanctioned Strength	In Position
58	Librarian	1	1
59	Project Operator	1	0
60	Pharmacist	2	1
61	Dispensary Attender	1	0
62	Nursing Assistant	1	0
63	Binder	2	2
64	PT Instructor	6	1
65	Record cum Store Keeper	3	0
66	Museum Assistant	1	0
67	Office Attendant	420	406
68	Peon cum Sweeper	1	1
69	Daffedar	1	0
70	Attender	18	18
71	Dark Room Attender	1	0
72	Driver	257	197
73	Photographer cum Artist	1	1
74	Gardener	4	1
75	Traker cum Gardener	3	0
76	Gardener cum Marker	1	0
77	Cleaner	2	0
78	Muduvan Watcher	8	6
79	Night Watcher	25	22
80	RF Watcher / Depot Watcher	196	176
81	Tribal Watcher	700	677
82	Watcher cum Cook	6	2
83	Tapal Watcher	3	0
84	Rest House Watcher	1	0
85	Scavenger / Sanitary Worker	1	1
86	Cook / Asst. Cook	1	1
87	Boat Driver	12	7
88	Boat Zrang	1	0
89	Boat Watcher	2	0
90	Boat Cleaner / Cleaner	3	0
91	Lascar	4	1
92	Survey Lascar	11	3
93	Mahouts & Kavadi	26	15
94	Timber Supervisor	1	0
95	Pump Operator	1	0

Sl. No.	Name of post	Sanctioned Strength	In Position
96	Lab Assistant	1	0
97	Radio Mechanic	1	0
98	Helper	2	0
99	Bus Cleaner	1	1
100	Chowkeedar	1	0
101	Part Time Contingent Employees	303	301
TOTAL		7834	7247

* Ex-cadre posts

** Statistical Assistant Gr. I post upgraded at Southern Circle, Kollam. (1) G.O (MS) No. 29/2015 forest dated 14.05.2015 (2)GO (MS) No. 110/2015 forest dated 28.12.2015 as per above GO 182 Supernumerary Watcher Post were existed.

TRAINING

During the year, 410 officials of various cadres were imparted training through different training programmes. An abstract of the same is given in table 3.6

TABLE 3.8 TRAINING DETAILS DURING 2020-21		
Sl. No.	Training	No. of participants
A. TRAINING WITHIN THE STATE		
1	Forestry Training Centre (FTC), (O/o Conservator of Forests (HRD)	43
2	Induction Training of Beat Forest Officer at Kerala Forest Service, Arippa & Walayar	193
3	SFTI Training for Drivers in Arippa & Walayar	22
4	One day Training to the tribal watchers at Parambikulam TR	12
B. KEPA TRAINING		
1	Beat Forest Officers Police Training	121
TOTAL		391
C. TRAININGS OUTSIDE STATE		
1	Extension Education Institute (EEI) , Hyderabad	6
2	CASFOS, Dehradun	8
3	CASFOS, Coimbatore	5
TOTAL		19
GRAND TOTAL		410

CHAPTER-4 INFRASTRUCTURE

ROAD

The type wise details of roads maintained by the department as on 31.03.2021 are given below.

TABLE 4.1 DETAILS OF ROADS DURING 2020-21

Sl. No.	Type of Road	Length (km)
1	Black Topped	552.585
2	Metalled	875.189
3	Cement Concrete	60.418
4	Earthen Road (Unsurfaced)	3419.371
TOTAL		4907.563
1	Motorable	4186.828
2	Non-motorable	720.735

BUILDINGS

A total of 3430 numbers of buildings had been maintained in the Forest Department as on 31.03.2021. The details are given below.

TABLE 4.2 DETAILS OF BUILDINGS UNDER THE DEPARTMENT

Sl. No.	Item	In position (No.)
I	Office Buildings	329
II	Rest house / Government Cottages / IB	60
III	Quarters	
	a) Type VI	21

Sl. No.	Item	In position (No.)
	b) Type V	14
	c) Type IV	59
	d) Type III	202
	e) Type II	697
	f) Type I	345
	g) Other Quarters	186
IV	Dormitory	96
V	Community Hall	50
VI	Forest Stations & Associated Buildings	147
VII	Other Buildings	1224
TOTAL		3430

VEHICLES

Kerala Forest Department possesses 793 numbers of different types of vehicles. Of this 662 were in running conditions. The details as on 31.03.2021 are given below.

TABLE 4.3 DETAILS OF VEHICLES UNDER THE DEPARTMENT

Sl. No.	Vehicles	In position (No.)		Total number of vehicles
		In running condition	Not in running condition	
1	Alpha Pick up	2	1	3
2	Ambassador car	5	10	15
3	Ambulance / Fire Responder	2	0	2
4	Boat	30	9	*39
5	Bolero	119	6	125
6	Bus/Minibus	23	2	25
7	E Rikshaw	0	1	1
8	Ford Fiesta / ATV-1	2	0	2
9	Gurkha Explorer	2	0	2
10	Indigo Car	3	6	9
11	Innova	33	0	33
12	Invader	10	0	10

Sl. No.	Vehicles	In position (No.)		Total number of vehicles
		In running condition	Not in running condition	
13	Mini Lorry / Lorry	4	1	5
14	Mahindra Jeep	115	22	137
15	Mahindra Thar / Camper	138	4	142
16	Mahindra Xylo / Xuv / Scorpio	34	0	34
17	Maruthi Gipsy	1	0	1
18	Maruthi SX4 / Ciaz	16	0	16
19	Mini Van - Tata Ace Magic	0	2	2
20	Motor cycle	98	65	163
21	Scorpio - Get away	9	0	9
22	Tata Winger/Manza	2	2	4
23	Toyota Qualis	9	0	9
24	Verito Car / Other Cars	5	0	5
TOTAL		662	131	793

* Pedal Boat - 5 Nos., Row Boat - 6 Nos., Engine Boat - 28 Nos.

ARMS & AMMUNITION

Necessary arms & ammunition have been given to the Divisional Forest Officers, Range Officers and Forest Station staff in vulnerable areas for effective protection of forests and wildlife. The details as on 31.03.2021 are given below.

Sl. No.	Circle	No. of Rifles	No. of Revolvers	No. of Gun / Pump Action Gun	No. of Ammunition (Cartridges & Bullets)
1	Southern Circle, Kollam	31	11	5	634
2	High Range Circle, Kottayam	59	14	10	2090
3	Central Circle, Thrissur	39	11	4	1137
4	Eastern Circle, Palakkad	50	8	1	1473
5	Northern Circle, Kannur	31	6	3	1483

Sl. No.	Circle	No. of Rifles	No. of Revolvers	No. of Gun / Pump Action Gun	No. of Ammunition (Cartridges & Bullets)
6	ABP, Thiruvananthapuram	12	5	1	1377
7	Field Director (Project Tiger), KTM	91	19	70	1781
8	Wildlife Circle, Palakkad	76	15	3	2712
9	Inspection & Evaluation, Kottayam	15	6	0	338
10	Inspection & Evaluation, Kozhikode	16	8	0	440
11	Training Centre, Aripa	2	2	1	41
12	Estate Office FHQ , TVPM	10	0	0	725
TOTAL		432	105	98	14231

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. Details of Forest Stations are in Table 4.5

TABLE 4.5 DIVISION WISE DETAILS OF FOREST STATIONS

Sl. No.	Division	Range	Forest Stations	
SOUTHERN CIRCLE KOLLAM				
1	Thenmala	Thenmala	1	Kadamanpara
2	Achenkovil	Achenkovil	2	Kumbavaruthy
3	Punalur	Pathanapuram	3	Ambanar
			4	Punnala
		Anchal	5	Ezhamkulam
4	Konni	Konni	6	Kumaramperoor (South)
			7	Kumaramperoor (North)
		Naduvathumoozhy	8	Kokkathodu
			9	Karippanthodu
			10	Padom
		Mannarappara	11	Chempala
	12	Mannarappara		

Sl. No.	Division	Range	Forest Stations	
5	Ranni	Ranni	13	Karikkulam
			14	Kanamala
			15	Rajampara
		Vadasserikkara	16	Chittar
			17	Gurunathanmannu
			18	Thannithodu
		Goodrikkal	19	Plappally
			20	Kochukoickal
			21	Pachakkanam
HIGH RANGE CIRCLE KOTTAYAM				
6	Kottayam	Nagarampara	22	Vazhathoppu
			23	Vairamony
		Ayyappancovil	24	Kanchiyar
		Erumeli	25	Murinjapuzha
			26	Vandanpathal
			27	Placherry
7	Kothamangalam	Thodupuzha	28	Veloor
8	Munnar	Munnar	29	Pettimudy
		Adimali	30	Machiplavu
			31	Panamkutty
		Neriyamangalam	32	Nagarampara
			33	Inchathotty
			34	Valara
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

Sl. No.	Division	Range	Forest Stations	
11	Vazhachal	Charpa	49	Kannamkuzhy
		Vazhachal	50	Vazhachal
			51	Mukkumpuzha
		Kollathirumedu	52	Kollathirumedu
		Sholayar	53	Malakkappara
			54	Sholayar
		Athirappally	55	Athirappally
			56	Ezhattumugham
12	Chalakydy	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
		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
			84	Singappara

Sl. No.	Division	Range	Forest Stations	
16	Nilambur (South)	Karulai	85	Padukka
			86	Nedumkayam
		Kalikavu	87	Chakkikuzhi
			88	Karuvarakundu
17	Nilambur (North)	Edavanna	89	Akampadam
			90	Edacode
			91	Kodumpuzha
		Nilambur	92	Vaniyampuzha
			93	Kanjirapuzha
		Vazhikkadavu	94	Nellikuthu
95	Pothukal			
NORTHERN CIRCLE KANNUR				
18	Wayanad (North)	Mananthavady	96	Makkiyad
			Begur	97
		Periya		98
			99	Kunhome
19	Wayanad (South)	Meppadi	101	Mundakkai
			102	Vythiri
		Chedleth	103	Irulam
			104	Pulpally
20	Kozhikkode	Peruvannamoozhi	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	111	Gavi
23	Periyar West	Pamba	112	Sannidhanam
			113	Mukkuzhi
			114	Pachakkanam
WILDLIFE CIRCLE PALAKKAD				
24	Silent Valley	Bhavani	115	Anavai
			116	Thudukki
25	Peechi	Peechi	117	Olakara

Sl. No.	Division	Range	Forest Stations	
26	Wayanad WL	Kurichiat	118	Vandikkadavu
			119	Kuppady
		Sulthanbathery	120	Naikatty
		Muthanga	121	Muthanga
			122	Thottamoola
		Tholpetty	123	Tholpetty
27	Aralam WL	Aralam	124	Narikkadavu

CHECK POSTS

Division wise number of check posts as on 31.03.2021 is given below

TABLE 4.6		DIVISION WISE NUMBER OF CHECK-POST	
Sl. No.	Division	No. of Check-post	
1	Thiruvananthapuram	1	
2	Thenmala	2	
3	Punalur	2	
4	Konni - 1 Temporary	2	
5	Ranni	3	
6	Achencovil	1	
7	Kottayam	2	
8	Kothamangalam	1	
9	Munnar	4	
10	Marayoor	2	
11	Vazhachal	2	
12	Malayattoor	3	
13	Nilambur North	1	
14	Nilambur South	1	
15	Mannarkkad	4	
16	Nenmara	3	
17	Wayanad South	2	
18	Wayanad North - 1 Temporary	2	
19	Kannur	1	
20	Kasargod	3	
21	Thiruvananthapuram WL	1	
22	Periyar East	5	

Sl. No.	Division	No. of Check-post
23	Idukki	1
24	Munnar WL	5
25	Parambikulam	3
26	Wayanadu WL	5
27	Peechi	1
TOTAL		63

TABLE 4.7 DIVISION / RANGE WISE DETAILS OF CHECK-POST				
Sl. No.	Division	Range	Check-posts	
SOUTHERN CIRCLE KOLLAM				
1	Thiruvananthapuram	Paruthipally	1	Parassala
2	Thenmala	Thenmala	2	Neduvannurkadavu
		Aryankavu	3	Kottavasal (Aryankavu)
3	Punalur	Pathanapuram	4	Karavoor
			5	Uppukuzhi
4	Achenkovil	Achenkovil	6	Kottavasal (Achenkovil)
5	Konni	Naduvathumuzhy	7	Njanaval
		Mannarappara	8	Mullumala (Temporary)
6	Ranni	Gudrical	9	Kochandi
		Vadasserikkara	10	Vadasserikkara
		Ranni	11	Laha (Rajampara)
HIGH RANGE CIRCLE KOTTAYAM				
7	Kottayam	Kumili	12	Cumbummettu
		Erumeli	13	Vazhikadavu
8	Kothamangalam	Thodupuzha	14	Guruthikalam
9	Munnar	Neriyamangalam	15	Thalakkodu
		Adimali	16	Panamkutty
		Devikulam	17	Bodimettu
			18	Palar
10	Marayoor	Marayoor	19	Chattamunnar
		Kanthalloor	20	Pious Nagar

Sl. No.	Division	Range	Check-posts	
CENTRAL CIRCLE THRISSUR				
11	Vazhachal	Charpa	21	Vazhachal
		Sholayar	22	Malakkappara
12	Malayattoor	Kalady	23	Kadappara
		Kuttampuzha	24	Thattekadu
		Thundathil	25	Boothathankettu
EASTERN CIRCLE PALAKKAD				
13	Nenmara	Nellyampathy	26	Pothundi
		Kollengode	27	Gopalapuram
			28	Meenakshipuram
14	Mannarkkadu	Agali	29	Anakkatty
			30	Keralamedu
		Mannarkkadu	31	Anamooly
			32	Inchikunnu
15	Nilambur North	Vazhikkadavu	33	Anamari
16	Nilambur South	Karulai	34	Cherupuzha
NORTHERN CIRCLE KANNUR				
17	Kannur	Kottiyoor	35	Iritty
18	Kasargode	Kanjangad	36	Panathur
		Kasargode	37	Thalappady
			38	Kottayadi
19	Wayanad (North)	Perya	39	Niravilpuzha
			40	Boys Town (Temporary)
20	Wayanad (South)	Meppadi	41	Cholady
		Kalpetta	42	Lakkidy
AGASTHYAVANAM BIOLOGICAL PARK				
21	Thiruvananthapuram WL	Peppara sanctuary	43	Kanithadam
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM				
22	Periyar East	Thekkady	44	Thekkady
		Vallakkadavu	45	Pachakkanam
			46	Anathodu
			47	Vallakkadavu
		Periyar	48	Vellimala

Sl. No.	Division	Range	Check-posts	
23	Munnar WL	Eravikulam NP	49	Rajamala
		Chinnar WLS	50	Chinnar
			51	Karimutty
		Shola NP	52	Pambadum Shola
			53	Methappu
24	Idukki WL	Idukki WLS	54	Vanmavu
WILDLIFE CIRCLE PALAKKAD				
25	Wayanadu WL	Muthanga	55	Muthanga
			56	Pazhoor
		Tholpetty	57	Tholpetty
			58	Bavali
		Kurichiat	59	Kuppadi (3 rd mile)
26	Parambikulam	Sungam	60	Anappadi
			61	Keerappadi
		Orukomban	62	Thuthanppara
27	Peechi	Chimmony	63	Echippara

CHAPTER-5

FINANCE

BUDGET PROVISION AND EXPENDITURE

The total budget outlay for the year 2020-21 was ₹711.45 crore and expenditure incurred to ₹628.52 crore which is 88.35% of the total budget outlay during the year. The details of budget provisions and the expenditure of last five years are given below.

Year	Plan		Non Plan		Total (₹in crores)
	Budget Outlay (₹in crores)	Expenditure (₹in crores)	Budget Outlay (₹in crores)	Expenditure (₹in crores)	
2020-21	269.46	247.61	441.99	380.91	628.52
2019-20	256.01	160.27	408.99	390.91	551.18
2018-19	305.93	171.69	418.85	398.20	569.89
2017-18	307.69	188.03	435.58	399.12	587.15
2016-17	286.24	239.02	353.77	368.14	607.16

REVENUE

The Forest Department 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 ₹236.60 crores during 2020-21. Major portion of the forest revenue was from timber. During 2020-21, ₹215 crores was collected towards revenue from the sale of timber alone which accounted for 90.87 % of the total forest revenue.

TABLE 5.2		REVENUE FROM TIMBER AND OTHER FOREST PRODUCES FOR THE LAST 3 YEARS		
Sl No.	Head of Account	2018-19 (₹.in lakhs)	2019-20 (₹.in lakhs)	2020-21 (₹.in lakhs)
1	2	3	4	5
0406-01-101 Sale of Timber and other Forest produces.				
1	99 Timber	24438.24	22931.68	21508.00
2	98 Firewood and Charcoal	138.27	108.01	194.47
3	97 Receipts from sale of forest produce coming under the Kerala private forest (Vesting and Assignment) Act.	31.27	0.04	0.00
4	96 Receipts from Forest Development Tax	1397.74	1244.56	1160.72
5	95 Receipts under Kerala Forest Produce	32.52	16.85	17.60
6	94 Other Items	191.01	122.21	115.79
Total (101)		26229.05	24423.35	22996.58
0406-01-800 Other Receipts				
1	99 Interests on Arrear of Forest Revenue	100.15	85.60	50.29
2	98 Receipts from Wildlife Department	230.17	221.65	60.01
3	97 Scheme for Provision of House Sites and houses to Landless Worker in Rural Area - Free Supply of Timber	0.00	0.00	0.00
4	96 Revenue Realised from the KFDC on the sale proceeds of residual growth	0.81	1.54	0.06
5	95 Other Items	2057.85	827.93	503.35
6	94 Livestock	0.03	0.34	0.11
7	93 Integrated Wasteland Development Programme	0.00	0.00	0.00
8	91 Receipts on account of Lapsed and Confiscated Deposits	0.00	0.24	1.02
9	90 Forest Land Lease rent	105.16	32.02	49.18
Total (800)		2494.17	1169.32	664.02
Grand Total		28723.22	25592.67	23660.60
	Refunds (0406-01-900-00)	2.38	8.20	0.00
	Net Revenue	28720.84	25584.47	23660.60

TABLE 5.3 REVENUE REALIZED FOR THE LAST FIVE YEARS (₹in crores)

Year	2016-17	2017-18	2018-19	2019-20	2020-21
Revenue	296.85	245.42	287.20	255.84	236.60

FOREST DEVELOPMENT TAX (FDT)

FDT is levied @ 5% on the sale proceeds of forest produce. After deducting the cost of collection of tax, balance amount was placed as additional budgetary source. During the year 2020-21 an amount of ₹1160.72 lakhs was collected.

OUTSTANDING ON ACCOUNT OF FOREST REVENUE

An amount of ₹347.35 crores is outstanding on account of forest revenue (arrears) at the end of the year 2020-21.

TABLE 5.4 SECTOR WISE OUTLAY & EXPENDITURE (₹in crores) DURING 2019-20 & 2020-21

Schemes	2019- 20		2020-21	
	Outlay	Expenditure	Outlay	Expenditure
State Sector	213.60	138.97	216.73	213.36
Central Sector	42.41	21.30	52.73	34.25
EAP	0.00	0.00	0.00	0.00
Total (Plan)	256.01	160.27	269.46	247.61
Non Plan	408.99	390.91	441.99	375.72
Grand Total	665.00	551.18	711.45	623.33

The Plan expenditure under forestry sector during 2020-21 was ₹247.61 crores, which is 91.89% of the total plan outlay. Out of this, state sector accounted an expenditure of ₹213.36 crores and the expenditure for central sector was ₹34.25 crores.

DEVELOPMENTS UNDER 13TH FIVE YEAR PLAN

The year 2020-21 was the fourth year of the 13th Five Year Plan. The target and achievement under 13th Five Year Plan is given below.

TABLE 5.5 | TARGET & ACHIEVEMENT DURING XIIIth FIVE YEAR PLAN (₹in crores)

Year	Target	Achievement
2017-18	307.70	188.03
2018-19	305.94	171.69
2019-20	256.01	160.27
2020-21	269.46	247.61

OUTLAY AND EXPENDITURE UNDER PLAN SCHEMES

During 2020-21, an expenditure of ₹24761.226 lakhs was incurred against the budget provision of ₹26946.140 lakhs. Details of budget head wise allotment and expenditure given below.

TABLE 5.6 | ACHIEVEMENTS ON PLAN SCHEMES (FINANCIAL) DURING 2020-21

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
1	2	3	4
A. State Sector Schemes			
I	Management of Natural Forests		
1	Forest Protection (2406-01-101-81)	2500.000	2495.989
2	Forest Protection (Survey of Forest Boundaries & Forest Protection) (4406-01-101-99)(01)	3200.000	3198.243
3	Regeneration of Denuded Forests (2406-01-101-94)	275.000	274.484
4	Non-wood forest produce including Promotion of	190.000	188.593

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
	medicinal plants (2406-01-101-80)		
	Sub Total	6165.000	6157.309
II	Improving Productivity of Plantations		
1	Hard Wood Species (4406-01-105-87)(01)	650.000	649.150
2	Industrial Raw Materials (4406-01-105-87)(02)	240.000	239.308
	Sub Total	890.000	888.458
III	Infrastructure Development		
1	Roads (4406-01-070-99)	600.000	599.714
2	Buildings (4406-01-070-97)	600.000	598.495
	Sub Total	1200.000	1198.209
IV	Bio-diversity Conservation and PA Management		
1	Conservation of Biodiversity (2406-02-110-68)	1000.000	999.341
2	Eco Development Programme (2406-02-110-56)	375.000	374.964
	Sub Total	1375.000	1374.305
V	Eco-Tourism (4406-01-800-91)	800.00	799.309
VI	Eco-Tourism – Project Green Grass (2406-01-800-52)	8.000	7.990
VII	Human Resource Development		
1	Training (2406-01-003-97)	350.000	321.546
VIII	Resource Planning & Research (2406-01-004-92)	150.000	146.793
IX	Forest Management Information System & GIS (2406-01-800-57)	245.000	242.361
X	Extension Community Forestry & Agro Forestry (2406-01-800-55)		
1	(01) Extension Forestry	1600.000	1595.511
XI	Works with assistance from RIDF (4406-01-800-90)	2609.000	2522.715
XII	Measures to reduce Man Animal Conflict (2406-01-800-56)	2400.000	2397.756
XIII	Zoological Park, Wildlife Protection and Research Centre,	1400.000	1400.000

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
	Puthur (2406-02-110-48)		
	Sub Total (A)	19192.000	19052.262
B. Schemes with Central Assistance (60% CSS)			
I	Sanctuaries		
1	Neyyar Wildlife Sanctuary (2406-02-110-39) (01)	87.500	79.600
2	Wayanad Wildlife Sanctuary (2406-02-110-39) (02)	190.000	137.260
3	Idukki Wildlife Sanctuary (2406-02-110-39)(03)	95.000	64.535
4	Peechi, Vazhani Wildlife Sanctuary (2406-02-110-39)(04)	100.000	60.299
5	Wildlife Sanctuary – Peppara (2406-02-110-39)(05)	80.000	72.508
6	Wildlife Sanctuary – Schendurney (2406-02-110-39)(06)	100.000	81.436
7	Wildlife Sanctuary -Chimmony (2406-02-110-39) (07)	85.000	73.600
8	Wildlife Sanctuary – Aralam (2406-02-110-39) (08)	86.000	70.210
9	Wildlife Sanctuary – Chinnar (2406-02-110-39) (09)	64.000	51.850
10	Bird Sanctuary at Thattekkad (2406-02-110-39)(10)	55.000	50.840
11	Mangalavanam Bird Sanctuary (2406-02-110-39)(11)	17.720	12.022
12	Kurinjimala Sanctuary (2406-02-110-39)(12)	20.000	19.973
13	Choolannur Peacock Sanctuary (2406-02-110-39)(13)	15.000	15.000
14	Malabar Wildlife Sanctuary (2406-02-110-39)(14)	40.000	36.361
15	Kottiyoor Wildlife Sanctuary (2406-02-110-39)(15)	45.000	40.630
	Sub Total	1080.220	866.124
II	National Parks		
1	Eravikulam National Park (2406-02-110-38)(01)	130.000	130.000
2	Silent Valley National Park (2406-02-110-38) (02)	170.000	148.070
3	Anamudi Shola National Park (2406-02-110-38)(03)	35.000	34.997
4	Mathikettan Shola National Park (2406-02-110-38)(04)	35.000	35.000

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
5	Pampadum Shola National Park (2406-02-110-38)(05)	45.000	45.000
	Sub Total	415.000	393.067
III	Community Reserve		
1	Integrated Development of Wildlife Habitats Management of Community Reserve (2406-02-110-37) (01) Kadalundi Reserve	17.500	17.500
	Sub Total	17.500	17.500
IV	Project Tiger		
1	Project Tiger Periyar Tiger Reserve (2406-02-110-36) (01)	772.280	412.375
2	Project Tiger Parambikulam Tiger Reserve (2406-02-110-36) (02)	632.400	362.420
	Sub Total	1404.680	774.795
V	Project Elephant		
1	Project Elephant (2406-02-110-35)	1000.000	819.523
2	Project Elephant SCSP (2406-02-789-99)	117.600	107.854
3	Project Elephant TSP (2406-02-796-99)	20.000	19.996
	Sub Total	1137.600	947.373
VI	Forest Fire Prevention Management Scheme (FPMS) (2406-01-800-53)	400.000	326.715
VII	Integrated Development of Wildlife Habitat (Protection of Wildlife Outside Protected Areas) (2406-02-110-52)	771.770	743.037
VIII	Nilgiri Biosphere Reserve (2406-02-110-34)	250.000	0.000
IX	Agasthyamala Biosphere Reserve (2406-02-110-33)	300.000	16.713
X	Wetland Conservation (2406-02-110-32)	424.000	71.270
XI	Integrated Development of Wildlife Habitats to Wayanad Wildlife Sanctuary for Voluntary Relocation of Settlements from Protected Areas (2406-02-110-31)	1.000	0.000

Sl No.	Scheme & Head of Account	Financial (₹ in lakhs)	
		Budget Outlay	Expenditure
XII	Green India Mission		
1	National Afforestation Programme - General Component (2406-01-102-86)	1450.680	1450.680
2	National Afforestation Programme - Special Component Plan for Scheduled Castes (SCP) (2406-01-789-99)	69.060	69.060
3	National Afforestation Programme - Tribal Area Sub Plan (TSP) (2406-01-796-99)	32.630	32.630
	Sub Total	1552.370	1552.370
	Sub Total (B)	7754.140	5708.964
	Grand Total (A+B)	26946.140	24761.226

OUTLAY AND EXPENDITURE UNDER NON-PLAN SCHEMES

An expenditure of ₹37572.330 lakhs was incurred against the budget provision of ₹44199.76 lakhs during 2020-21. Details on budget head wise allotment and expenditure are shown below.

TABLE 5.7 | ACHIEVEMENTS ON NON-PLAN SCHEMES (FINANCIAL) DURING 2020-21

Sl No.	Scheme & Head of Account	2020-21 (₹in Lakhs)	
		Outlay	Expenditure
I	Direction & Administration (2406-01-001)		
1	Office of the Chief Conservator of Forests (2406-01-001-99)	1745.410	1412.405
2	Office of the Conservator of Forests (2406-01-001-98)- Circle Office	782.830	667.197
3	Working Plan & Research Circle (2406-01-001-97)	72.130	64.638
4	Vigilance & Evaluation Wing (2406-01-001-96)	1701.270	1487.779
5	District Offices (2406-01-001-95)	14164.900	11794.110
6	Statistical Cell (2406-01-001-94)	4.990	4.892
7	Timber Sales Division (2406-01-001-93)	695.800	606.374
	Sub Total	19167.330	16037.395
II	Education & Training (2406-01-003)		
1	Education and Training (2406-01-003-99)	528.820	273.140
	Sub Total	528.820	273.140

Sl No.	Scheme & Head of Account	2020-21 (₹in Lakhs)	
		Outlay	Expenditure
III	Forest Research (2406-01-004)		
1	Forest Research & Training (2406-01-004-99)	61.550	53.574
2	Payment out of the KFDF for Forest Research (2406-01-004-95)	85.000	60.097
	Sub Total	146.550	113.671
IV	Survey and Utilization of Forest Resources (2406-01-005)		
1	Forest Resources Survey (2406-01-005-99)	54.570	46.119
2	Survey of Forest Boundaries (2406-01-005-98)	227.350	184.886
	Sub Total	281.920	231.005
V	Statistics (2406-01-013)		
1	Planning & Statistical Cell (2406-01-013-99)	157.390	157.422
	Sub Total	157.390	157.422
VI	Communication & Buildings (2406-01-070)		
1	Roads & Bridges (2406-01-070-99)	40.500	39.639
2	Buildings (2406-01-070-98)	77.950	77.520
	Sub Total	118.450	117.159
VII	Forest Conservation Development & Regeneration (2406-01-101)		
1	Forest Consolidation & Acquisition of Private Forests (2406-01-101-99)	4247.940	3680.257
2	Working Plans, Evaluation Survey, etc. (2406-01-101-98)	1.900	1.607
3	Silvicultural Works (2406-01-101-97)	8.000	7.788
4	Fire Protection Work (2406-01-101-96)	20.570	17.591
5	Compensatory Afforestation (2406-01-101-92)	5.000	4.994
6	Amount met out of KFDF for Planting Softwood Trees (2406-01-101-91)	400.000	395.981
7	Transfer to the fund for TEAK under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules,1999 (2406-01-101-90)- Teak	851.130	805.318
8	Transfer to the fund for PULPWOOD under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules,1999 (2406-01-101-89)pulpwood	50.000	49.995
9	Forest Protection (2406-01-101-81)	5089.840	4317.177
	Sub Total	10674.380	9280.708
VIII	Social & Farm Forestry (2406-01-102)		
1	Plantation of fast growing species (2406-01-102-99)	371.450	270.118

Sl No.	Scheme & Head of Account	2020-21 (₹in Lakhs)	
		Outlay	Expenditure
2	Ecology Development World Bank Assisted Social Forestry (2406-01-102-98)	2737.530	2365.720
3	Ecology Development World Bank Assisted Social Forestry, Phase-II (2406-01-102-92)	114.120	78.545
Sub Total		3223.100	2714.383
IX	Forest Produces (2406-01-105)		
1	Timber & Other Produces removed by Govt. Agencies (2406-01-105-99)	2250.000	2248.670
2	Firewood & Charcoal removed by Govt. Agencies (2406-01-105-98)	2.250	1.625
3	Other Produce removed by Govt. Agencies (2406-01-105-97)	0.080	0.080
4	Timber & Other Produces removed by Consumer (2406-01-105-96)	0.070	0.000
5	Confiscated Forest Produce, Drift wood, etc. (2406-01-105-95)	0.500	0.000
6	Livestock (2406-01-105-94)	800.000	798.968
7	Miscellaneous Advance Suspense (2406-01-105-93)	1.000	0.000
8	Teakwood (2406-01-105-92)	1255.410	1074.995
9	Softwood (2406-01-105-91)	124.010	84.750
Sub Total		4433.320	4209.088
X	Other Expenditure (2406-01-800)		
1	Forest Extension and Publicity (2406-01-800-98)	86.810	66.612
2	Forest Protection (2406-01-800-95)	0.010	0.000
3	Intensification of Forest Management (2406-01-800-93)	229.010	195.736
4	Relief to Victims Affected by the Attack of Wild Animals (2406-01-800-92)	60.000	59.547
5	Rewards to Informants of forest offences (2406-01-800-91)	0.450	0.00
Sub Total		376.280	321.895
XI	Wildlife Preservation (2406-02-110)		
1	Wildlife Preservation (2406-02-110-99)	2391.550	2050.094
2	Periyar Tiger Reserve Project (2406-02-110-93)	316.910	266.920
3	Eco-Development Global Environmental Facilities (2406-02-110-69)	89.750	74.230
4	Conservation of Bio-diversity (2406-02-110-68)	582.860	504.220
Sub Total		3381.070	2895.464

Sl No.	Scheme & Head of Account	2020-21 (₹in Lakhs)	
		Outlay	Expenditure
XII	LAC ADS (4406-01-101)		
1	Projects under Legislative Assembly Constituency Asset Development Scheme (4406-01-101-97)	132.130	132.115
	Sub Total	132.130	132.115
XIII	EFL (4406-01-102)		
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
XIV	State Authority (Compensatory Aforestation) (2406-04-103-99)	1579.010	1088.885
	Sub Total	1579.010	1088.885
	GRAND TOTAL	44199.760	37572.330

FUNDS RECEIVED DIRECTLY FROM GOVERNMENT OF INDIA

The scheme-wise funds received directly from Government of India and the expenditure incurred during 2020-21 are given below.

TABLE 5.8 EXPENDITURE ON FUNDS RECEIVED DIRECTLY FROM THE GOVT. OF INDIA		
Scheme	Amount Released during 2020-21 (₹in Lakhs)	Expenditure Incurred during 2020-21 (₹in Lakhs)
CAMPA	1578.9	1088.34

WORK DONE FOR OTHER DEPARTMENTS / AGENCY

There is no expenditure incurred for the works done during the year for other Government Departments, autonomous bodies, local bodies or other agencies.

CHAPTER-6

FOREST OFFENCES

TABLE 6.1 ABSTRACT OF NUMBER OF CASES BOOKED			
Cases	Upto 2020	During 2021	Total upto 20201
Under Kerala Forest Act	37950	457	38407
Under Wildlife Protection Act	3524	283	3807
61 A Cases	2186	108	2294
Other Acts	4872	104	4976
TOTAL	48532	952	49484

TABLE 6.2 CIRCLE WISE NUMBER OF CASES DISPOSED				
Sl. No.	Circle	Disposed upto 2020	Disposed during 2021	Disposed upto 2021
1	Southern Circle, Kollam	1642	28	1670
2	High Range Circle, Kottayam	3420	20	3440
3	Central Circle, Thrissur	1428	2	1430
4	Eastern Circle, Palakkad	6207	36	6243
5	Northern Circle, Kannur	1898	46	1944
6	ABP,Thiruvananthapuram	56	7	63
7	FDPT, Kottayam	266	6	272
8	WL, Palakkad	451	10	461
	TOTAL	15368	155	15523

TABLE 6.3		CIRCLE WISE CASES CHARGED IN THE COURT		
Sl. No.	Circle	No. of Cases upto 2020	No. of Cases during 2021	No. of Cases upto 2021
1	Southern Circle, Kollam	1159	22	1181
2	High Range Circle, Kottayam	17657	5	17662
3	Central Circle, Thrissur	1476	2	1478
4	Eastern Circle, Palakkad	3463	11	3474
5	Northern Circle, Kannur	2199	28	2227
6	ABP,Thiruvananthapuram	145	2	147
7	FDPT, Kottayam	661	7	668
8	WL, Palakkad	409	6	415
TOTAL		27169	83	27252

TABLE 6.4		CIRCLE WISE CASES PENDING WITH DEPARTMENT		
Sl. No.	Circle	No. of Cases upto 2020	No. of Cases during 2021	No. of Cases upto 2021
1	Southern Circle, Kollam	1494	63	1557
2	High Range Circle, Kottayam	3304	78	3382
3	Central Circle, Thrissur	1227	33	1260
4	Eastern Circle, Palakkad	2603	113	2716
5	Northern Circle, Kannur	1413	103	1516
6	ABP,Thiruvananthapuram	66	2	68
7	FDPT, Kottayam	422	4	426
8	WL, Palakkad	335	32	367
TOTAL		10864	428	11292

TABLE 6.5 CIRCLE WISE NUMBER OF CASES BOOKED UNDER VARIOUS ACTS

Sl. No.	Circle	Under KF Act upto 2020	KF Act during 2021	KF Act at the end of 2021	Under WLP Act upto 2020	WLP Act during 2021	WLP Act at the end of 2021	Other Acts upto 2020	Other Acts during 2021	Other Act at the end of 2021	No. of 61A cases upto 2020	61 A cases during 2021	61 A cases at the end of 2021
0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	SC, Kollam	3350	85	3435	624	49	673	225	32	257	148	3	151
2	HRC, Kottayam	15433	66	15499	400	28	428	2858	11	2869	592	5	597
3	CC, Thrissur	3135	64	3199	693	52	745	216	11	227	142	11	153
4	EC, Palakkad	10213	126	10339	687	67	754	907	10	917	445	14	459
5	NC, Kannur	3562	75	3637	717	63	780	557	34	591	791	70	861
6	ABP, Thiruvananthapuram	204	4	208	53	3	56	7	0	7	3	0	3
7	FDPT, Kottayam	1185	9	1194	121	4	125	28	4	32	21	2	23
8	WL, Palakkad	868	28	896	229	17	246	74	2	76	44	3	47
TOTAL		37950	457	38407	3524	283	3807	4872	104	4976	2186	108	2294

CHAPTER-7

WILDLIFE CONSERVATION

WILDLIFE SANCTUARIES & NATIONAL PARKS

During the year 2020-21, Kerala has 3441.207 km² of forests under protected area which include 6 National Parks, 18 Wildlife Sanctuaries (includes 2 Tiger Reserves, 2 Bird Sanctuaries, 1 Peafowl Sanctuary) and one Community Reserve which forms 30% 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) *	777.000	1950
2	Neyyar Wildlife Sanctuary	128.000	1958
3	Peechi - Vazhani Wildlife Sanctuary	125.000	1958
4	Parambikulam WLS (Tiger Reserve) **	285.000	1973
5	Wayanad Wildlife Sanctuary	344.440	1973

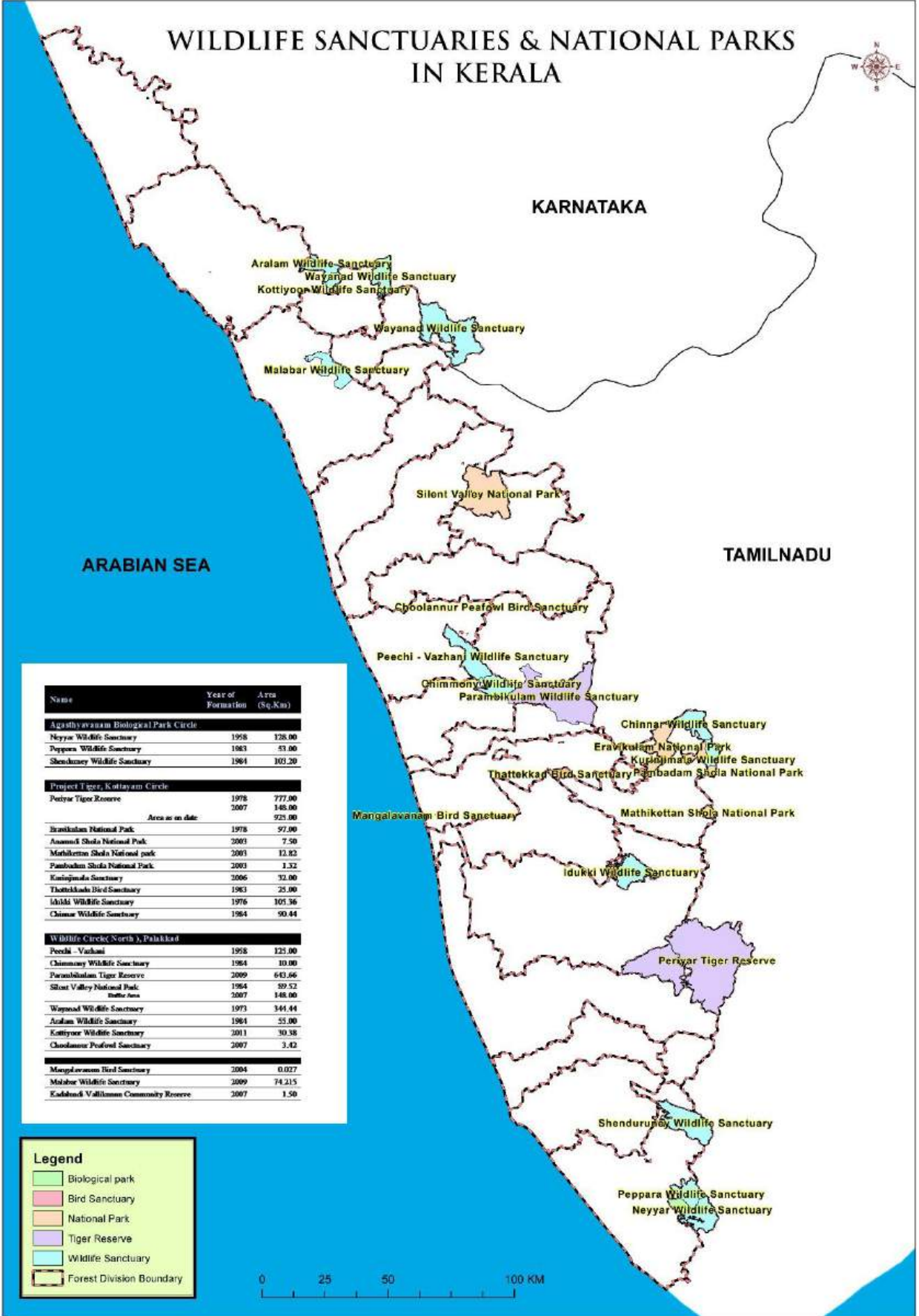
Sl. No.	Name	Area (km ²)	Year of formation
6	Idukki Wildlife Sanctuary	70.000	1976
7	Peppara Wildlife Sanctuary	53.000	1983
8	Thattekkad Bird Sanctuary	25.000	1983
9	Shenduruney Wildlife Sanctuary	171.000	1984
10	Chinnar Wildlife Sanctuary	90.440	1984
11	Chimmony Wildlife Sanctuary	85.000	1984
12	Aralam 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
18	Karimpuzha Wildlife Sanctuary	227.970	2019
TIGER RESERVE			
1	Periyar Tiger Reserve	925.000	2007
2	Parambikulam Tiger Reserve	643.660	2009
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

* Included in the Periyar Tiger Reserve

** Included in the Parambikulam Tiger Reserve

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

WILDLIFE SANCTUARIES & NATIONAL PARKS IN KERALA



Name	Year of Formation	Area (Sq.Km)
Agasthyavanam Biological Park Circle		
Neyyar Wildlife Sanctuary	1958	128.00
Peppara Wildlife Sanctuary	1963	53.00
Shendurney Wildlife Sanctuary	1964	103.20
Project Tiger, Kottayam Circle		
Periyar Tiger Reserve	1978	777.00
	2007	148.00
Area as on date:		925.00
Travancore National Park		
Eravikulam National Park	1978	97.00
Anamudi Shola National Park	2003	7.50
Marthikanda Shola National Park	2003	12.82
Pambadam Shola National Park	2003	1.32
Kunjimoola Sanctuary	2006	32.00
Thattakkada Bird Sanctuary	1963	25.00
Idukki Wildlife Sanctuary	1976	105.36
Chinnar Wildlife Sanctuary	1964	90.44
Wildlife Circle (North), Palakkad		
Peechi - Vazhani	1958	125.00
Chimmony Wildlife Sanctuary	1964	10.00
Parambilam Tiger Reserve	2009	643.66
Silent Valley National Park	1964	89.52
Buffer Area	2007	148.00
Wayanad Wildlife Sanctuary	1973	344.44
Aralam Wildlife Sanctuary	1964	55.00
Kottiyoor Wildlife Sanctuary	2011	30.38
Choolannur Peafowl Sanctuary	2007	3.42
Malappuram Bird Sanctuary		
Malabar Wildlife Sanctuary	2009	74.215
Kadambadi Valluvan Community Reserve	2007	1.50

Legend	
	Biological park
	Bird Sanctuary
	National Park
	Tiger Reserve
	Wildlife Sanctuary
	Forest Division Boundary



TABLE 7.2		STATUS OF MANAGEMENT PLAN	
Sl. No.	Name	Area (km ²)	Period
1	Eravikulam National Park	97.000	2012 - 2022
2	Silent valley National Park	237.520	2012 - 2022
3	Anamudi Shola National Park	7.500	2021 - 2030
4	Mathikettan Shola National Park	12.817	2021 - 2030
5	Pambadum Shola National Park	1.318	2021 - 2030
6	Periyar Tiger Reserve	925.000	2012 - 2022
7	Neyyar Wildlife Sanctuary	128.000	2012 - 2022
8	Peechi - Vazhani Wildlife Sanctuary	125.000	2012 - 2022
9	Parambikulam Tiger Reserve	643.660	2012 - 2022
10	Wayanad Wildlife Sanctuary	344.440	2012 - 2022
11	Idukki Wildlife Sanctuary	70.000	2012 - 2022
12	Peppara Wildlife Sanctuary	53.000	2012 - 2022
13	Thattekkad Bird Sanctuary	25.000	2012 - 2022
14	Shenduruney Wildlife Sanctuary	171.000	2012 - 2022
15	Chinnar Wildlife Sanctuary	90.440	2012 - 2022
16	Chimmony Wildlife Sanctuary	85.000	2012 - 2022
17	Aralam Wildlife Sanctuary	55.000	2012 - 2022
18	Mangalavanam Bird Sanctuary	0.027	Under Processing
19	Kurinjimala Sanctuary	32.000	2012 - 2022
20	Choolannur Pea Fowl Sanctuary	3.420	2011 - 2021
21	Malabar Sanctuary	74.215	Under Processing
22	Kadalundi - Vallikunnu Community Reserve	1.500	2016 - 2026
23	Kottiyoor Wildlife Sanctuary	30.380	2013 - 2023
24	Karimpuzha Wildlife Sanctuary	227.97	Under Processing
TOTAL		3441.207	

DETAILS OF HUMAN-WILDLIFE CONFLICT INCIDENTS

A total of 8017 Human Wildlife conflict incidents have reported in Kerala during 2020-21.

TABLE 7.3 DETAILS OF HUMAN-WILDLIFE CONFLICT INCIDENTS

Incidents	Snake	Elephant	Wild Boar	Wild Gaur	Tiger	Leopard	Others	Total
Human Death	52	27	8	0	1	0	0	88
Human injured	767	34	146	2	0	0	39	988
Cattle Death	27	1	3	0	141	164	64	400
Crop damage & Property loss	0	2945	1898	58	23	7	1610	6541
TOTAL	846	3007	2055	60	165	171	1713	8017

MAJOR PREVENTIVE STRUCTURES

Details of the major preventive structures constructed to mitigate human-wildlife conflict as on 31.03.2021.

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 (km)
SC, Kollam	127.05	9.104	1.407	0	0	0.50	0
HRC, KTM	22.70	0.85	0	0	0	0	0
CC, Thrissur	45.00	3.47	0	0	0	0	0
EC, PKD	25.89	0.85	0.27	0	0	0	0
NC, Kannur	188.35	7.00	10.13	0	0	5.12	0.50
ABP,Tvpm	2.00	0.00	0	0	0	0	0
FDPT, KTM	18.79	2.00	0	0	0	0	0
WL, Palakkad	7.8	0	0	0.085	0	0	0.128
TOTAL	437.58	23.274	11.807	0.085	0	5.62	0.628

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 2020-21 a total of ₹ 1044.82 lakhs have been distributed to the victims.

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	12	45.00	187	37.97	47	7.13	722	48.75	968	138.84
HRC, Kottayam	5	0	75	13.62	41	2.13	332	27.21	453	42.96
CC, Thrissur	11	21.00	132	50.68	58	8.39	459	33.13	660	113.20
EC, Palakkad	34	84.50	144	48.54	49	7.78	710	76.99	937	217.81
NC, Kannur	27	77.00	429	106.08	114	24.37	3467	216.21	4037	423.66
ABP, Tvpm	1	5.00	2	0.05	0	0	46	2.87	49	7.92
FD-PT, Kottayam	2	11.00	1	0.17	0	0	55	3.56	58	14.73
WL, Palakkad	5	27	7	2.16	71	4.00	906	52.53	989	85.69
TOTAL	97	270.5	977	259.27	380	53.80	6697	461.25	8151	1044.82

YEAR	2016	2017	2018	2019	2020
NUMBER OF APPLICATION	6022	7765	9333	8125	6859
AMOUNT PAID (IN LAKHS)	681.69	963.90	1018.68	1115.03	930.06

AGGRESSIVE ANIMALS KILLED WHEN LANDED IN POPULATED AREA

GO No 23/2022/F&WLD DATED 05/05/2022 . The Government had issued an order on 18/05/2020 containing revised guidelines and procedures for the shooting and killing of Wild boars which come out of the forest and cause damage to human life, property and agriculture. The period of said order was for six months and the order was revised by making certain amendments in the guideline and procedures.

TABLE 7.7 | DETAILS OF AGGRESSIVE ANIMALS KILLED WHEN LANDED IN POPULATED AREA

Name of animal	Division	Number of Animals (2020-21)
Southern Circle, Kollam		
Wild Boar	Thiruvananthapuram	98
	Konni	3
	Ranni	6
Tiger	Ranni	1
Elephant	Thiruvananthapuram	1
High Range Circle, Kottayam		
Wild Boar	Munnar	2
	Kothamangalam	6
	Kottayam	1
Sambar Deer	Marayoor	2
Indian Crested Procupine		1
Central Circle, Thrissur		
Wild Boar	Malayattoor	1
Indian Elephant	Malayattoor	1
Eastern Circle, Palakkad		
Wild Boar	Nenmara	1
	Palakkad	6
	Nilambur (N)	97
	Nilambur (S)	1
	Mannarkkad	12
Pea cock	Nenmara	1
	Palakkad	1
	Mannarkkad	7

Name of animal	Division	Number of Animals (2020-21)
Giant Squirrel	Nenmara	1
Sambar Deer	Palakkad	4
	Mannarkkad	4
Python	Palakkad	1
	Mannarkkad	1
Bonnet Macaqueo	Palakkad	1
	Mannarkkad	1
Spotted deer	Palakkad	1
	Mannarkkad	1
Indian Elephant	Palakkad	1
	Nilambur (S)	1
	Mannarkkad	4
Jackal	Mannarkkad	1
Mouse Deer	Mannarkkad	1
Fox	Mannarkkad	1
Northern Circle, Kannur		
Wild Boar	Kannur	2
	Kozhikkode	71
Spotted Deer	Kannur	2
Python	Kannur	1
Sambar Deer	Kannur	1
Jungle Cat	Kannur	1
Bison	Kannur	1
Deer	Kannur	1
Indian Civet	Kannur	1
Gyps Himalayan sis	Kannur	1

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-wildlife conflict.

TABLE 7.8 DETAILS OF RAPID RESPONSE TEAMS DURING 2020-21

Sl. No.	Location of RRT	Officer in charge	District / Division to which the team is attached	Contact Number
1	Kannur	RFO, Kannavam	Kannur District	8547602678
2	Kozhikode (Thamarassery)	RFO, Thamarassery	Kozhikode District	8547602828
3	Wayanad (Sulthan Bathery)	RFO, Muthanga	Wayanad WL Division & Chedleth Range of Wayanad South Division	8547603563
4	Nilambur	RFO, Nilambur	Malappuram District	8547602200
5	Mannarkkad	RFO, Mannarkkad	Mannarkkad Range, Bhavani Range and Western slopes of Agali Range	8547602315
6	Palakkad	RFO, Olavakkode	Nenmara and Palakkad Forest Division and Parambikulam Tiger Reserve	8547602100
7	Ranni	RFO, Ranni	Alappuzha District, Konni and Ranni Forest Divisions	8547600927
8	Peppara	RFO, Paruthippally	Thiruvananthapuram District	8547600954
9	Kasargode	RFO, Kasargode	Kasargode District	6282101501
10	Kalpetta	RFO, Kalpetta	Wayanad North, Kalpetta and Meppady Ranges of Wayanad South Division	8547603486
11	Attappadi	RFO, Attappadi	Agali Range and Attappady Range within Attappady area	
12	Chalakkudy	RFO, Pariyaram	Thrissur District and Malayattoor Forest Division	9495321272
13	Peerumedu	RFO, Azhutha	Periyar East, West and Kottayam Forest Division	8547603140
14	Munnar	RFO, Munnar	Munnar, Marayoor, Mankulam Forest Division and Munnar WL Division	8547601351
15	Punalur	RFO, Anchal	Kollam District	8547600749

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.

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 136 from the population of 71 in 2010. The report states that the tiger population and occupancy has shown a substantial increase in Western Ghats landscape. A comparison of the population of tigers as per the past estimations is given in below.

TABLE 7.10 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 7.11 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 466. Out of this, 437 elephants are privately owned and 29 elephants are owned by the department. The number of private and department owned elephants implanted with microchip are 437 and 29 respectively. During the report year, twenty deaths of captive elephants are reported in the State.

TABLE 7.12 | **DETAILS OF CAPTIVE ELEPHANTS AS ON 31.03.2021**

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
437	29	0	4	19	1

TABLE 7.13 | **DIVISION WISE NUMBER OF DEPARTMENT ELEPHANTS**

Sl. No.	Division	Number of elephants
1	Konni	5
2	Palakkad	1
3	ERC, Kottoor (WL Division TvpM)	16
4	Wayanad Wildlife	11
TOTAL		33

TABLE 7.14

DETAILS OF DEPARTMENTAL ELEPHANTS IMPLANTED WITH MICRO-CHIP

Division	Sl. No	Name of Elephant	Micro-chip number	Age	Sex	Height (cm)
ERC, Kottoor (Wildlife, Tvpm)	1	Soman	00065DB7BJ	80	Male	278
	2	Rajkumar	00065EB67D	43	Makhna	301
	3	Jayasree	00065DA371	48	Female	250
	4	Ammu	00065D95E5	20	Female	258
ERC, Kottoor (Wildlife, Tvpm)	5	Minna	000658BFCF	20	Female	247
	6	Raja	00065DC227	8	Male	215
	7	Rana	00065ECD23	8	Male	228
	8	Podichi	00065ED152	7	Female	195
	9	Hari Krishnan	Not implanted	28	Male	290
	10	Arjun	000658D973	4	Male	180
	11	Poorna	00065EB6C6	4	Female	170
	12	Maya	00065D7A6E	4	Female	149
	13	Manu	00065EBF4D	4	Male	160
	14	Kannan	00065E9E8C	2	Male	130
	15	Sreekutty	Not implanted	1	Female	120
	16	Amena	Not implanted	2	Female	123
Konni	17	Eva	00065DC7E0	20	Female	193
	18	Krishna	000658DD68	9	Male	185
	19	Meena	000658C223	31	Female	240
	20	Neelakandan	00065EA6E9	25	Male	290
	21	Priyadarshini	00065EA5AF	39	Female	242
Wayanad Wildlife	22	Kunju	000658EF9E	34	Male	282
	23	Suryan	00065DAEE3	28	Male	278
	24	Pramugha	00065DAF41	44	Makhna	276
	25	Chandranath	006E4CA5E	26	Male	272
	26	Bharath	00065EC8A5	31	Male	263
	27	Vikram	Not implanted	37	Male	258
	28	Unnikrishnan	000658B4D6	13	Male	238

Division	Sl. No	Name of Elephant	Micro-chip number	Age	Sex	Height (cm)
Wayanad Wildlife	29	Sundari	00065D78F0	12	Female	229
	30	Ammu	00065EB384	7	Female	161
	31	Chandu	00065ECBF4	6	Male	148
	32	Surendran	00065D7F6D	25	Male	287
Palakkad	33	Agasthyan	000658C214	13	Male	233

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 population figures of Nilgiri Tahr in Eravikulam National Park during last 11 years are given below.

TABLE 7.15 | ESTIMATED POPULATION OF NILGIRI TAHR IN EVNP (2010 TO 2020)

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Population	776	831	789	873	894	900	664	575	643	526	723

The estimated population figures of Nilgiri Tahr in Parambikulam Tiger Reserve and Silent Valley National Park in 2021 are given below.

TABLE 7.16 ESTIMATED POPULATION OF NILGIRI TAHR IN PARAMBIKULAM TIGER RESERVE & SILENT VALLEY NATIONAL PARK IN 2021		
Landscape	Division	Number of Nilagiri tahr sighted
Parambikulam	Nenmara	31
	Chalakkudy	2
	Malayattoor	9
Silent Valley	Silent Valley	7
	Mannarkkad	24
	Palakkad	9
TOTAL		82

ELEPHANT CORRIDORS

TABLE 7.17 LIST OF ELEPHANT CORRIDORS						
Sl. No.	Name of the Corridor	Division under which the corridor falls	Corridor		Status of Notification	Remarks
			Length in (km)	Width in (km)		
1	Kottiyoor - Periya	Kannur, Wayand (N)	3	0.1	Not Notified	Land acquisition in progress
2	Begur-Brahmagiri	Wayanad WLS with Brahmagiri WLS & Nagarhole TR (Karnataka)	1	0-0.8	Not Notified	Land acquired
3	Nilambur - Apenkappu	Nilambur (N) & (S) Divisions	0.4	0.5	Not Notified	Land acquired
4	Periya at Pakranthalam	Wayanad (N)	0.5	0.2	Not Notified	Land to be acquired
5	Thirunelli - Kudrakote	Wayanad (N)	6	1 - 1.5	Yes	Land acquired
6	Nilambur - Kovilakom - New Amarambalam	Nilambur (N) & (S) Divisions	1	0.5	Not Notified	Land acquired
7	Muthumalai - Nilambur via O'valley (Ouchterlony Valley)	Nilambur (N) Forest Division & Muthumalai TR (TN)	35	0.1	Not Notified	Land acquired

WILD ANIMALS RESCUED

During the year 2020-21, many cases of human-wildlife 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.

Kerala Forest Department has introduced the mobile application 'SARPA' representing snake awareness, rescue and protection application for monitoring all associated activities related to rescue and release of snakes. Details of wild animals rescued are given in below.

TABLE 7.18 | **DETAILS OF WILD ANIMALS RESCUED**

Sl. No.	Name of Animals	Number
1	Python	5618
2	Spectacled Cobra (Indian Cobra)	4858
3	King Cobra	221
4	Viper	1053
5	Sand Boa	119
6	Rat Snake	268
7	Water Snake	12
8	Krait	154
9	Wild Snake	83
10	Other Snakes	1227
11	Peacock	221
12	Eagle	120
13	Barn Owl / Owl	339
14	Parrot	13
15	King Fisher	1
16	Migrating Birds	33
17	Crane	9

Sl. No.	Name of Animals	Number
18	Grey Hornbill	6
19	Other Birds	193
20	Monkey	581
21	Wild Boar	1173
22	Wild Gaur	1
23	Asian Palm Civet	691
24	Indian Civet	96
25	Elephant	23
26	Jungle Cat	119
27	Toady Cat	288
28	Wild Porcupines	142
29	Fox/Jackal/Wild Dog	140
30	Wolf	2
31	Sambar Deer	44
32	Spotted deer	83
33	Barking deer	7
34	Mouse deer	5
35	Tortoise	103
36	Leopard	2
37	Malabar Giant Squirrel	27
38	Monitor lizard	144
39	Crocodile	4
40	Indian Pangolin	20
41	Mongoose	20
42	Sloth Bear	1
43	Other Animals	18
TOTAL		18282

CHAPTER - 8

OTHER VITAL INFORMATION ON FORESTRY

STATUS OF WORKING PLANS

Working plan is the main instrument of forest management and is defined as a written scheme of management aiming at continuity of policy (normally for a period of 10 years) controlling the treatment of forest. The status of working plans as on 31.03.2021 is given below.

TABLE 8.1		STATUS OF WORKING PLAN AS ON 31-03-2021	
Sl. No.	Division	Valid up to	Status
DIVISIONS WHERE APPROVED WORKING PLAN OR MANAGEMENT PLAN IS AVAILABLE			
1	Thiruvananthapuram	31.03.2014	Submitted to MoEF & CC for approval
2	Thenmala	31.03.2019	New WP is being prepared
3	Achenkoil	31.03.2018	New WP is being prepared
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	New WP is being prepared
9	Marayoor	31.03.2020	New WP is being prepared
10	Mankulam	31.03.2022	Working Plan is current.
11	Kottayam	31.03.2027	Working Plan is current.
12	Vazhachal	31.03.2028	Working Plan is current.
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.

Sl. No.	Division	Valid up to	Status
19	Palakkad	31.03.2019	Submitted to MoEF & CC for approval
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 2020-2021 a total of 150 number of incidents relating to forest fire have been reported amounting for a total destruction of 502.087 Ha. of forest area causing financial loss of ₹ 4500/-.

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	4	1.261	4000
2	Thenmala	1	32.22	0
3	Achenkovil	3	9.4	0
4	Kottayam	35	81.513	0
5	Marayoor	2	7.25	0
6	Kothamangalam	12	17.08	0
7	Munnar	11	24.6	0
8	Chalakydy	4	70.573	0
9	Thrissur	6	22.75	0
10	Nenmara	7	31.65	0
11	Palakkad	13	17.49	0
12	Mannarkad	3	29.514	0
13	Nilambur South	4	11	0

Sl. No.	Name of division	No. of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
14	Nilambur North	12	14.25	500
15	Kozhikode	1	5.2	0
16	Wayanad South	2	5	0
17	Wayanad North	2	11.277	0
TOTAL		122	392.028	4500
WILDLIFE DIVISION				
18	Thiruvananthapuram WL	4	33.75	0
19	Periyar East	4	43.69	0
20	Periyar West	1	3.449	0
28	Peechi Wildlife	1	27.57	0
29	Silent Valley National Park	17	0	0
30	Wayanad Wildlife	1	1.6	0
TOTAL		28	110.059	0
GRAND TOTAL		150	502.087	4500

TABLE 8.3		DETAILS OF FIRE INCIDENTS DURING LAST 5 YEARS		
Year	Number of incidents	Area destroyed by fire (Ha)	Financial loss(₹)	
2016-2017	716	3290.200	295836	
2017-2018	314	1114.814	53100	
2018-2019	434	1737.394	153015	
2019-2020	359	1148.626	62102	
2020-2021	150	502.087	4500	

FIRE PROTECTION MEASURES

Protection of the forests from fire was carried out mainly by undertaking fire lines and engaging fire protection watchers. During 2020-21, 2271.64 km length of fire line was constructed and 144438 numbers of fire watchers engaged and 1811.85 lakhs was expended for this activity.

TABLE 8.4 **DETAILS OF FIRE PROTECTION MEASURES TAKEN UP DURING 2020-21**

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	3.1	2978	4336816
2	Thenmala	87.92	7860	9629000
3	Punalur	32	11646	8644848
4	Konni	70.5	109	11462000
5	Achencovil	84.9	2064	1795988
6	Ranni	182	8200	3633000
7	Kottayam	51.67	3199	4805644
8	Munnar	0	1200	895000
9	Marayoor	7.7	4049	2933078
10	Kothamangalam	91.5	4574	3895000
11	Mankulam	36.2	2137	3801977
12	Malayattoor	183.1	9516	6280640
13	Chalakydy	71	3120	3737702
14	Vazhachal	112.46	2364	3311424
15	Thrissur	0	8325	6984886
16	Nenmara	59	3530	6752000
17	Palakkad	0	2670	1916000
18	Mannarkad	33	4191	4318000
19	Nilambur South	19.17	2821	3258085
20	Nilambur North	74	2242	3463000
21	Kozhikode	5	4709	3933760
22	Wayanad South	40.75	5360	4913770

Sl. No.	Name of division	Length of fire line (km)	No. of fire watchers engaged (man days)	Expenditure (amount in rupees)
23	Wayanad North	87.65	6160	6631784
24	Kannur	72.05	3727	5609000
25	Kasargod	68.4	8388	7134488
TOTAL		1473.07	115139	124076890
WILDLIFE DIVISION				
26	Thiruvananthapuram WL	148.15	93	8962000
27	Shenduruney	48.2	2025	4186000
28	Periyar East	55.5	6075	6527842
29	Periyar West	80	2280	3909164
30	Munnar WL	55.5	464	5784700
31	Idukki WL	65.68	4368	5512865
32	Peechi WL	99.8	4320	3092000
33	Parambikkulam TR	60	1398	4102167
34	Silent valley NP	90.10	1955	6133700
35	Wayanad WL	73.8	5453	7448000
36	Aralam WL	21.84	868	1449634
TOTAL		798.57	29299	57108072
GRAND TOTAL		2271.64	144438	181184962

SEEDLINGS

During 2020-21 Social Forestry Wing raised 57.70 lakh of valuable seedlings have been distributed to public and planted all over the state, from this 49.466 seedlings to Panchayath for planting and distribution. Planting will be executed in tribal colonies, VSS and EDC areas, public lands, institutional lands and also in degraded lands as part of eco restoration.

TABLE 8.5 SPECIES WISE NUMBER OF SEEDLINGS RAISED DURING 2020-21

Division	Teak	Mahogany	Fruit Bear - ing species	Medicinal plants	Flowering Species	Other hardwood	Protection species *	Misc.
Thiruvananthapuram	0	0	145284	72186	37014	32910	21006	1600
Kollam	0	0	140219	62331	11998	37343	30544	17565
Pathanamthitta	12536	0	152952	52300	8588	40760	2396	10468
Alappuzha	30000	0	199238	42370	6000	14250	24142	0
Kottayam	4931	0	114915	45401	17463	63845	28650	24795
Idukki	0	0	104750	23900	20500	51350	21500	500
Ernakulam	7500	8126	214044	31358	15570	87520	40000	882
Thrissur	0	8940	221390	43750	35880	78540	10500	1000
Palakkad	0	18005	193720	39045	40876	106694	6660	0
Malappuram	70000	6000	110305	31350	35420	41925	15000	0
Wayanad	8000	4470	79894	9241	27952	63766	18684	1493
Kozhikkode	5000	0	64400	20500	17360	39990	17750	0
Kannur	8000	0	103600	0	31550	74850	0	0
Kasargode	25000	0	103450	10000	34050	69750	22750	0
TOTAL	170967	45541	1948161	483732	340221	803493	259582	58303

*Protection species are planted in river bank or in coastal area

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 2020-21, there were 427 numbers of VSSs and 213 numbers of EDCs.

TABLE 8.6		DIVISION WISE NUMBER OF VANA SAMRAKSHANA SAMITHIES (VSS)
Sl. No.	Territorial Division	No. of Vana Samrakshana Samithies
1	Thiruvananthapuram	21
2	Thenmala	11
3	Punalur	17
4	Konni	23
5	Ranni	34
6	Achencoil	6
7	Kottayam	14
8	Kothamangalam	11
9	Munnar	11
10	Marayoor	25
11	Mankulam	10
12	Malayattoor	18
13	Vazhachal	11
14	Chalakudy	13
15	Thrissur	22
16	Palakkad	13
17	Mannarkad	17
18	Nilambur South	15
19	Nilambur North	31
20	Nemmara	17
21	North Wayanad	17
22	South Wayanad	19
23	Kozhikode	17
24	Kannur	20
25	Kasargode	14
TOTAL		427

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	8

Sl. No.	Wildlife Division	No. of Eco-Development Committees
4	Wayanad WL	18
5	Peechi	12
6	Thiruvananthapuram WL	33
7	Shendurney	10
8	Idukki	9
9	Munnar WL	27
10	Periyar East	46
11	Periyar West	40
TOTAL		213

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	21	5936.00	394	1045	855
2	Thenmala	11	3200.00	332	408	1010
3	Punalur	17	4730.00	335	361	512
4	Konni	23	6905.00	266	92	1333
5	Ranni	34	5675.00	541	1053	2406
6	Achencoil	6	2700.00	181	141	288
7	Kottayam	14	3552.85	219	313	1465
8	Kothamangalam	11	2510.80	96	169	813
9	Munnar	11	11340.00	53	1047	577
10	Marayoor	25	1436.00	659	907	747
11	Mankulam	10	874.90	16	431	51
12	Malayattoor	18	26957.00	208	820	629
13	Vazhachal	11	14230.00	170	321	573
14	Chalakydy	13	4127.50	142	167	1598
15	Thrissur	22	3994.27	708	100	2455
16	Palakkad	13	2036.98	464	792	2009
17	Mannarkad	17	4976.00	75	537	512
18	Nilambur South	15	14099.00	199	328	1020

Sl. No.	Territorial Division	No. of VSS	Forest area under VSS (Ha)	No. of families		
				SC	ST	Others
19	Nilambur North	31	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	19	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		427	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	8	868.80	23	184	197
4	Wayanad WL	18	0.00	18	716	70
5	Peechi	12	2800.00	178	171	487
6	Thiruvananthapuram WL	33	0.00	972	843	470
7	Shendurney	10	1950.00	207	0	346
8	Idukki	9	3850.00	0	276	473
9	Munnar WL	27	0.00	432	778	1251
10	Periyar East	46	0.00	0	0	0
11	Periyar West	40	0.00	1621	0	1736
TOTAL		213	10887.07	3462	3868	5088

VANASREE ECOSHOPS

During the year 2011-2012, vanasree ecoshops are started in various places to enable the vana samrakshana samithies to sale processed and semiprocessed non timber forest products collected by adivasis from forest areas. The profits from these outlets are being ploughed back to the MFP

collectors through the vana samrakshana samithies. The public will also be getting unadulterated and genuine forest products from these outlets. There are 64 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	Kallar
3	Thiruvananthapuram	Ponmudi
4	Thiruvananthapuram	Mobile Vanasree unit
5	Achenkovil	Achenkovil
6	Thenmala	Palaruvi
7	Punalur	Ayur
8	Punalur	Pathanapuram
9	Konni	Konni
10	Ranni	Angamuzhy
11	Ranni	Pampa (seasonal)
12	Kothamangalam	Thommankuthu
13	Marayoor	Marayoor
14	Marayoor	Anakottappara - Kanthalloor
15	Kottayam	Pullupara
16	Malayattoor	Mulankuzhi
17	Malayattoor	Ernakulam, Fort Shore Road
18	Malayattoor	Panayeliporu
19	Malayattoor	Malayattoor
20	Malayattoor	Mobile Vanasree Unit
21	Chalakydy	Chalakydy
22	Vazhachal	Athirappilly
23	Vazhachal	Vazhachal
24	Palakkad	Malampuzha Snake Park
25	Palakkad	Ananganmala
26	Nilambur North	Aruvakode
27	Nilambur South	Nedumgayam
28	North Wayanad	Mananthavady
29	North Wayanad	Thirunelli
30	South Wayanad	Thariyode 8 th Mile

Sl. No.	Division	Name of Vanasree unit
31	Kozhikkode	Thusharagiri
32	Kozhikkode	Kakkayam
33	Kannur	Nedumpoyil
34	Kasargode	Ranipuram
35	Thiruvananthapuram WL	Neyyar
36	Thiruvananthapuram WL	Kottoor
37	Thiruvananthapuram WL	Peppara
38	Schenduruny Wildlife	Schendurney FIC, Thenmala Dam Jn.
39	Schenduruny Wildlife	Rosemala
40	Idukki Wildlife	Thattekkad
41	Idukki Wildlife	Vellappara
42	Munnar Wildlife	Top Station, Shola NP
43	Munnar Wildlife	Tahr No. 1, Eravikulam NP
44	Munnar Wildlife	Lakkam, Eravikulam NP
45	Munnar Wildlife	Karimutty, Chinnar WLS
46	Munnar Wildlife	Chinnar, Chinnar WLS
47	Parambikulam, Wildlife	Parambikulam
48	Parambikulam, Wildlife	Anappady
49	Parambikulam, Wildlife	Anappady Check Post
50	Wayanad Wildlife	Muthanga
51	Wayanad wildlife	Tholpetty
52	Peechi Wildlife	Range Office, Peechi
53	Peechi Wildlife	Chimmony
54	Silent Valley National Park	Mukkali Town
55	Silent Valley National Park	Silent Valley
56	Periyar (East)	Boat Landing Centre, Thekkady
57	Periyar (East)	Information Centre Outlet
58	Periyar (East)	Bamboo Grove Outlet
59	Periyar (East)	Vallakkadav Checkpost Outlet
60	Periyar (West)	Pamba (seasonal)
61	Periyar (West)	Neelimala (seasonal)
62	Periyar (West)	Uppupara (seasonal)
63	Periyar (West)	Marakkootom (seasonal)
64	SF, Alappuzha	Kommadi

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	4
3	Pathanamthitta	3
4	Alappuzha	0
5	Idukki	9
6	Kottayam	2
7	Ernakulam	2
8	Thrissur	3
9	Palakkad	7
10	Malappuram	4
11	Kozhikkode	6
12	Wayanad	9
13	Kannur	4
14	Kasaragode	1
TOTAL		60

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

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
I. THIRUVANANTHAPURAM DISTRICT						
1	Kottoor (2010)	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.40/- per Indian adult, Rs.25/- per Indian child, Rs.85/- per foreigner adult, Rs.50/- per foreigner child, Boating (Bowl Boat) -Rs.400/- per 4 indians, Rs.600/- per 4 foreigners Pedal Boat : Rs. 100/- for two and Rs. 200/- for four Indians, Rs. 100/- for two and Rs. 560/- for four Foreigners, Bamboo rafting - Rs.500/- (5 person) Indian, Rs. 1200/- (5 person) foreigner, Still Camera : Rs. 45/- Movie Camera : Rs. 335/-	Deputy wadren, Kottoor- 8547602969

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
2	Neyyar WLS (2000)	Crocodile Park, Snug Havens 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	<p>Boat safari cruising at Neyyar Lake - Rs. 250/- per Indian adult, Rs.125/- per Indian child, Rs.500/- per foreigner adult, Rs.250/- per foreigner child, Bus safari - Neyyar - Kottoor visit Minimum 10 persons Rs. 4000/- for Indians, Rs. 8000/- for Foreigners. Maximum 22 persons Rs. 400/- per person for Indians and Rs. 800/- per person for Foreigners, Rs.200/- for Indian child, Rs.800/- for Foreign child,. Agasthyarkoodom - Rs.18310/- for 5 persons and for 10 persons Rs. 36620/- Crocodile Park - Rs.25/- for Indian adult, Rs.40/- for foreign adult, Rs. 15/- for Indian child and Rs. 35/- for foreign child</p> <p>Kombai Boating - Animal sightings Dormetry and one attached separate room. Rs. 10800/- for minimum 6 person and maximum 15 person for Indians (Rs. 1800/- each) Rs. 21600/- for minimum 6 person and maximum 15 person for foreigners (Rs. 3600/- each)</p> <p>Kathirmudy Trekking - Rs. 2500/- for 1-5 Indians, Rs.5000/- for 1-5 foreigners Rs. 5000/- for 6-10 Indians, Rs.10000/- for 6-10 foreigners</p> <p>Anchunazhikathodu - Nature walk and furnished building Rs. 10000/- for 1-5 Indians, Rs. 20000/- for 1-5 foreigners Kizhakkumalapara - Rs. 1300/- for 1-5 Indians, Rs. 2600/- for 1-5 Foreigners, Rs. 2600/- for 6-10 Indians and Rs. 5200/- for 6-10 Foreigners.</p>	Asst.wildlife warden, Neyyar - 8547602955

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
3	Peppara WLS (2010)	Vazhuvanthol falls visit, Agasthyarkoodam trekking, Pandipath camp, Agasthyarkoodam view tower camp, Manchadikkanam Machan camp	By bus- 50 KM from Trivandrum	Temporary camp shed available	<p>Vazhuvanthol falls visit- Rs. 1500/- for 10 persons (Indian child and adult) Rs. 3000/- for 10 persons (Foreign child and adult)</p> <p>Kappukad – Kakkathookki – Rs. 4000/- 1-5 person for Rs. 7200/- 6-9 person for Indians and children (5 to 13 yrs) Rs. 400/- per head Rs. 8000/- 1-5 person for Rs. 14400/- 6-9 person for Foreigners and children (5 to 13 yrs) Rs. 800/- per head.</p> <p>Elephant Rehabilitation Centre, Kottoor – Entrance fee for adult Rs. 40 and children Rs. 25/- for Indians and Rs. 85/- for adult, Rs. 50/- children for Foreigners. Still Camera Rs. 45/- and Movie Camera Rs. 335/-</p> <p>Eco Lodge – Rs. 1200/- (4 persons) for Indians and Rs. 2400/- (4 persons) for Foreigners.</p>	Asst.wildlife warden, Peppara- 8547602951
4	Ponmudi (2007)	Ponmudi hills and adjacent areas	By bus- 61 KM (Trivandrum- Nedumangad- Vithura- Ponmudi)	IB (Water authority), Golden peak (KTDC), Govt.Guest house	<p>Entry fee_ Rs.30/- per Indian Adult, Rs.10/- per indian Child, Rs.300/- per foreigner Adult, Rs.225/- per foreigner Child,</p> <p>Bike / Auto- Rs.15/-, Car / Jeep-Rs.30/-, Bus- Rs.60/-, Still camera - Rs.50/-</p>	Secretary, Ponmudi Vana Samrakshana Samithi 8547600986

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
5	Mankayam (2005)	Mankayam water falls and adjacent areas	By bus- (Trivandrum-Nedumangad-Peringamala-Mangayam)		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	Secretary, Mankayam Vana Samrakshana Samithi 9400879969
6	Kallar (2005)	Meenmutty waterfalls in the evergreen forests in foot hills of Ponmudi	By bus- 29 KM (Trivandrum-Nedumangad-Vithura-Kallar)		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, Kallar Vana Samrakshana Samithi 8547600956
II. KOLLAM DISTRICT						
7	Manalar Kumbhavurutty (Achencovil) (2002)	Evergreen forest, Grass land, Trekking Shola forest, Water falls, Pilgrimage, Achencovil temple of Lord Ayyappa	42 KM- (Punalur AlimukkuMullumala Achen covil) 80 KM- (Punalur-Thenmala-Aryankavu Shenkotta)	Waterfalls, Trekking, Nature camps, Sight seeing	Entry fee- Rs. 50/- per Adult, Rs.25/- per Child (5 years to 15 years), Bike / Auto- Rs.20/-, Car / Jeep- Rs.30/-, Van / Mini bus - Rs.80/-, Bus - Rs.100/-,	0475 - 2342315 RFO, Achencoil 8547600500

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
8	Palaruvi (Thenmala) (2002)	Water falls, Bourdillons plot - First stumped teak plantation of Kerala in 1891	Punalur-36 KM Arayankavu-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 Trukking : Rs. 100/- for Indians and Rs. 200/- for 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/-	DFO,Thenmala, - 9447979037 9400895148 Palaruvi Ecotourism Office -0475 2211200, 2211700
9	Kudukkathupara (2002)	Nature vision and Trucking	Anchal - Alancherry - Anakulam	Resting place, Toilet, Drinking water, Parking area etc.	Entrance fee : Rs. 30/- for adults, Rs. 10/- for children and Rs. 100/- for foreigners Parking : Two wheeler - Rs. 20/-Three wheeler - Rs. 20/- Car/Jeep - Rs. 30/- Mini Bus - Rs. 75/- Bus - Rs. 100/-	8547600726
10	Shendurney (2004) 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. 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) 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)	

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
	Shendurney				Night safari by jeep_ Rs. 6000/- for 4 pax Rs. 500 (extra person) Boating:-Dawn 'n'dusk surfing (Special boating)_ Rs.300/- per Indian (minimum 8 pax Rs. 2400/- Rs.600/- per foreigner, J ungle camping:- Idimuzhangan nights / Woody rockwood / Kurunthotti top hut / Spa 'n' pallivasal - Rs.7500/- per 2 pax Extra person Rs. 1500/- Lake view 'n' kalamkunnu:- Rs.7500/- for 2 persons (for package) Rs. 5000/- for 2 persons Kalamkunnu Safari:- Rs. 60/- per person (minimum 10 pax) Coracle ride :- Rs. 400 per person (for trip) (maximum 4 pax) Bamboo Raft :- Rs. 100/- per person (minimum 5 pax) 30 minute	Wildlife Warden Shendurney- 9447979081
III. PATHANAMTHITTA DISTRICT						
11	Konni Elephant Camp (2009)	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.40/- per adult, Rs. 15/- per child for Indian and Foreigners. Parking fees: LMV - Rs. 20/- Heavy vehicle Rs. 50/-, Two wheeler Rs. 10/- Camera Rs. 100/- Movie Camera Rs. 250/-	04682247645 8547600599
12	Adavi (2012)	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	04682247645 8547600599

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
13	Gavi Anangamoozhy (2009)	Nilgiri Tahr, Lion tailed macaque and more than 260 species of birds including the great pied hornbill, wood pecker and king fishers are often sighted	Pathanamthitta – Vadaserikkara – Chittar – Seethathodu – Anangamoozhy	Resting place	Entrance fee : Rs. 60/- per Indian adult, Rs. 120/- per Foreign adult	8547600897 8547600911
IV. KOTTAYAM DISTRICT						
14	Chellarkovil (2004)	Panoramic view of Cumbum valley in Tamilnadu	Thekkady-17 KM	Telescope watch tower garden	Service charges - Entrance- Rs.20/-, Telescope- Rs.50/- Watch tower- Rs.30/-	8547601146
15	Kalvarimount (2004)	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

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
V. IDUKKI DISTRICT						
16	Viripara (Kainagiri) (2003)	Kainagiri water falls, Semi ever green and grassland vegetation,	By road:- Munnar-23 km Kottayam-156 km Thiruvananthapuram -300 km, Aluva rail way 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
17	Anakottapara Park (2003)	No. of dolmens (on the way from Marayoor to Kanthalloor)	Munnar-41 km Coimbatore airport-110 km	Eco shop	Entrance- Rs-10/-	04865-252988 8594070438
18	Rajeev Gandhi National Park (2003)	A huge banyan tree,	Munnar-41 km Udumalpet railway station-47 km	Park visit, Coffee shop & eco shop	Entrance-Rs-10/-	04865-252988 9446524706
19	Periyar Tiger Reserve (2004)	Gavi & Thekkady, Project tiger Panoramic view of undulating mountains, 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 & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
20	Eravikulam National Park (2003)	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
21	Shola National Park (2002) (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	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	Wildlife warden, Munnar- 9447979093
			Anamudi Shola National Park:- Marayoor- 40 km Aluva railway station-150 km Cochin Airport-160 km		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,	

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
	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
22	Thommankuthu (2004)	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 29 km from Kothamangalam	Trekking, bathing ghats(during summer season), site seeing, Walking through lush evergreen forest, bird watching, Vanasree eco shop, Interpretation centre	Entry fee-Rs 40/- per Adult and Rs 20/- per child, Rs. 10/- for School children Trekking- Rs 1500/- per 5 persons Camera- Rs 50/- Video-Rs 250/-	Vana Samrakshana Samithi 9895712800 Range Officer, Kaliyar- 0486-2247591, 8547601302

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
23	Chokaramudy	Trukking	From Munnar Gap road	Trukking	Entrance fee : Rs. 450/-	8547601338
24	Chinnar Sanctuary (2002)	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

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VI. ERNAKULAM DISTRICT						
25	Mulamkuzhy (2002)	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
26	Paniyeliporu (2002)	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

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VII. THRISSUR DISTRICT						
27	Athirappilly (2000)	Water falls, Beautiful Vazhachal rapids,	Chalakkudy railway station-30 KM Cochin international airport-55 KM	IB & Dormitory, Nature camps, Trekking,	Entry fee:- Rs 50/- per indian adult, Rs 10/- per indian child, Rs 15/- per student, Rs 200/- per foreigner Parking fee:- Bike / Auto- Rs. 15/-, Light motor vehicle-Rs. 25/-, Medium vehicle- Rs. 40/-, Heavy vehicle- Rs. 75/-, Camera-Rs.60/-, Video Camera- Rs.400/-	Athirappilly Ticket Counter 8547601897
28	Vazhachal (2000)	Water falls, Beautiful Vazhachal rapids,	Chalakkudy railway station-30 KM Cochin international airport-55 KM	IB & Dormitory, Nature camps, Trekking,	Entry fee:- Rs 50/- per indian adult, Rs 10/- per indian child, Rs 15/- per student, Rs 200/- per foreigner Parking fee:- Bike / Auto- Rs. 15/-, Light motor vehicle-Rs. 25/-, Medium vehicle- Rs. 40/-, Heavy vehicle- Rs. 75/-, Camera-Rs.60/-, Video Camera- Rs.400/-	Vazhachal Check Post 8547601915,

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
29	Chimmony (2008)	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
VIII. PALAKKAD DISTRICT						
30	Silent Valley (2004)	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 375/- per Indian adult, Rs 55/- per Indian student, Parking Light motor vehicle- Rs. 15/- Heavy vehicle- Rs. 20/-	04924-253225 8589895652

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
31	Parambikulam Tiger Reserve (2004) (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 & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
	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>	Information Centre, Anappady- 9442201690 9442201691

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
32	Thodukappu (2004)	Environment Study	Kozhikkode-Palakkad Highway	Children's Park	Entrance fee : Rs. 20/- for adult, Rs. 10/- for children and Rs. 150/- for foreigners Camera : Rs. 38/-	9447842190
33	Minnampara (2004)	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	Dhoni (2004)	Water falls, Panoramic view	Dhoni-Palakkad railway station-12 km	Bird watching , Trekking	Trekking-Rs. 120/- per person	DFO, Palakkad-0491 2555156 Range Forest Officer, Olavakode 8745602072
35	Ananganmala (2004)	Panoramic view	Ananganmala-PKD railway station-45 km	Trekking	Entrance fee : Rs. 40/- per adult Trukking : Rs. 100/- per person	DFO, Palakkad-0491 2555156 R FO Ottappalam-8745602087
36	Meenvallam (2004)	Water falls	Meenvallam- PKD railway station-34 KM Nearest airport-Nedumbassey, Kkd & Coimbatore	Trekking, Visit to wet evergreen forests	Entrance fee : Rs. 25/- per adult, Rs. 15/- per child Trukking : Rs. 120/- per person	DFO, Palakkad-0491 2555156 Range Forest Officer, Olavakode 8745602072

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VIII. MALAPPURAM DISTRICT						
37	Nedumkayam (2003)	Karimpuzha Wildlife Sanctuary	12 km from Chandamukku on Calicut – Nilambur – Gudalur Road via Karulai	Panoramic view of Karimpuzha river and adjacent forest areas, Water recreation and river side walk.	<p>Entrance fees: Rs. 35/- for adult Rs. 20/- for children and Rs. 80/- for foreigners</p> <p>Parking fees: 2 wheeler – 40 3 wheeler – 40 4 wheeler – 80 Heavy Vehicle – 315</p> <p>Photography : Still Camera – 40 Video Camera – 240</p> <p>Entry time : 9 am to 4 pm</p>	8547602263
38	Kodikuthimala (2003)	Natural Beauty	10 km from Perinthalmanna on Kozhikkode – Palakkad National Highway	Sight seeing	<p>Entrance fees: Rs. 35/- for adult Rs. 20/- for children and Rs. 80/- for foreigners</p>	8547602292

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
39	Kozhippara (2003)	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
40	Canoly Plot (2003)	Fully operated by DTPC, Malappuram				
X. KOZHIKODE DISTRICT						
41	Kakkayam (Malabar Sanctuary) (2004)	Dam site and water falls	Kozhikode- 56 KM	Waterfalls, Trekking in hillocks, Guides.	Rs 40/- per adult, Rs 20/- per child Rs. 60/- per foreigner	DFO, KKD- 9447979073 Thamarassery Range Officer 8547602851
42	Kakkad (2004)	Sight seeing through forest area	Kozhikkode - Eengapuzha-Kakkad	Seating, Resting Shelter etc.	Rs 30/- per adult, Rs 15/- per child Rs. 50/- per foreigner	8547602851

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
43	Peruvanna-muzhy (2004)	Crocodile rescue center, Indian institute of spices research, Agricultural farm	Kozhikode - 45 km	Trekking, Guides	Rs 30/- for adult, Rs 15/- per child, Rs. 50/- per foreigner	DFO, KKD- 9447979073 8547602842
44	Thusharagiri (2004)	Water falls and Trekking	Kozhikode - 54 km	Trekking, Nature education, Guides	Rs 30/- for adult, Rs 15/- per child, Rs. 50/- per foreigner	DFO, KKD - 9447979073 8547602818
45	Kakkavayal (2004)	Bio-diversity garden (Butterfly, Medicinal Plant, Orchid), Star Forest and Bamboo Park	Kozhikode - 41 km	Guides	Rs 30/- for adult, Rs 15/- per child, Rs. 50/- per foreigner	DFO, KKD- 9447979073 8547602792
46	Janakikkad (2004)	Low elevation ever green forest	Kozhikode - 50 km	Trekking, Guides	Rs 30/- for adult, Rs 15/- per child, Rs. 50/- per foreigner	DFO, KKD- 9447979073 8547602773

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
XI. WAYANAD DISTRICT						
47	Tholpetty (2003)	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
48	Muthanga (2003)	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 & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
49	Thirunelli Pakshipathalam (Brahmagiri Hills) (2003)	Temple, Pakshipathalam, Brahmagiri Hills,	Sultan bathery-71km Mananthavady - 30 km	Rain forests, shola, Trekking	Rs. 2355/- for 5 Indian adults Rs. 3200/- for 5 Foreigners	04935-240627
50	Banasuramala (2003)	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
51	Pakkam-Kuruva (2003)	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
52	Soochippara (2003)	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 & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
53	Chembra Peak (2003)	Trekking	Kalpetta- 25 km	Trekking	Entry fee- Rs 24/- per Indian adult, Rs 18/- per Indian student. Rs 36/- per foreigner. Camera-Rs.47/- for Indians, Rs 94/- for foreigners Trekking 10 members- Rs.855/- for Indians and Rs 1770/- for foreigner (5 members)	DFO, South wayanad- 04936 203428, 9447979075 Range Officer- 8547602680
54	Muneeswaran Kunnu Makkimala (2003)	Stay cum trekking, Hill view	Thalapuzha- Mananthavady- Thalapuzha forest station- Makkimala- Muneeswaran- kunnu- 5 km and 10 km from Mananthavadi	Site seing, Recreation activities	Entry fee Rs. 45/- for Indian adult Rs. 25/- for Indian child Rs. 60/- foreigners. The above fee for trekking also Camping Rs. 2100 + 18% GST for 15 Indians and Rs. 3000 + 18% GST for 15 foreigners	04935 - 240627
55	Chirappullu	Trekking	By road from Mananthavady 15 km	Trekking for 5 person	Entry fee – Rs. 2355/- for Indian and Rs. 2760/- for Foreigners	04935 – 240614 8547602494

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
56	Meenmutti Waterfalls, Makkiyad (2003)	Waterfalls, Childrens park	Mananthavady 4 th mile-Korome spot-Korome village office road - 2 KM 20 KM from Mananthavady	Childrens park	Entry fee- Rs 50/- per Indian adult, Rs 30/- per Indian child. Rs. 70/- for foreigners	04935 - 240614 Chalil Vana Samrakshana Samithi - 8547602483
XII. KANNUR DISTRICT						
57	Paithalmala (Purathotty) (Manjapullu) (2006)	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
58	Kanhirakolly (Alakapuri Water falls) (2006)	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
59	Sasippara View Point (2006)	Sight Viewing	Kannur Railway Station - 65 km		Entry fee- Rs. 30/- per Indian adult Rs. 15/- per Indian child Rs. 200/- per foreigners	8547602620

Sl. No.	Name of Destination & Yr of Establishment	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
XIII. KASARGOD DISTRICT						
60	Ranipuram (2006)	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 8547602601 8547602605

INCOME FROM ECO-TOURISM ACTIVITIES

A. TERRITORIAL DIVISIONS: An amount of 400.723 lakh has been generated towards eco-tourism activities in various eco-tourism centres in 23 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 2020-21						
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	240712	56	15432	256200	7368315
			Mankayam	17235	3	914	18152	592940
		Paruthippally	Kallar	57749	15	5720	63484	1842850

Sl. No.	Division	Name of range	Location of eco-tourism centre	No. of Visitors				Income generated (in rupees)
				Native	Foreigners	Students	Total	
2	Thenmala	Aryankavu	Palaruvi	26686	6	30	26722	1700095
3	Achencovil	Achencovil	Manalar-Kumbhavuruty	85	2	2	89	2835
4	Punalur	Anchal	Kudukkathupara	12566	0	656	13222	257880
5	Ranni	Goodrical	Gavi	15530	5	0	15535	932400
6	Konni	Konni	Eco Tourism	52686	0	5637	58323	1689870
		Adavi	Adavi	20171	0	1990	22161	3526500
		Naduvathumoozhy	Gavi Bus Tour	158	18	0	176	333800
			Tree Top Huts	317	0	31	348	392000
7	Kothamangalam	Kaliyar	Thommankuthu	16298	0	889	17187	522870
8	Kottayam	Kumily	Chellarcovil	3765	3	566	4334	119110
		Ayyappancoil	Kalvari mount	91365	0	1136	92501	2711595
9	Mankulam	Mankulam	Kainagiri (Viripara)	13743	0	4974	18717	672055
			Nakshathrakuthu	3189	0	830	4019	165070
10	Munnar	Devikulam	Chokramudi	565	0	0	565	226000
11	Marayur Sandal	Marayur	Rajiv Gandhi National Park	4189	0	3350	7539	41890
		Kanthalloor	Anakottapara Park	27567	0	4612	32179	275670
12	Vazhachal	Charpa	Athirappilly	219578	68	4231	223877	1365804
			Vazhachal	16147	7	909	17063	102110

Sl. No.	Division	Name of Range	Location of Eco-tourism Centre	No. of Visitors				Income Generated (in rupees)
				Native	Foreigners	Students	Total	
13	Malayattoor	Kodanad	Paniyeliporu VSS	33916	1	3291	37208	1319270
		Kalady	Mulamkuzhy VSS	0	0	0	0	0
		Thundathil	Bhoothathankettu	8447	0	1414	9861	265890
14	Mannarkkad	Agali	Singapara (Siruvani)	0	0	0	0	0
			Thodukappu	250	0	127	377	6308
15	Nilambur South	Karulai	Nedungayam	9800	0	916	10716	574130
16	Nilambur North	Edavanna	Conolly Plot, Aruvacode	8808	0	113	8921	423500
			Kozhipara	27944	0	1143	29087	1156110
		Nilambur	Chandakkunnu	13085	0	756	13841	681680
17	Palakkad	Ottappalam	Ananganmala	12573	0	0	12573	306205
		Olavakkode	Meenvallam Waterfalls	6441	0	0	6441	154895
			Dhoni Waterfalls	12337	0	0	12337	1480440
18	Nemmara	Kollengode	Minnampara	25426	2	10	25438	1880890
19	Kozhikode	Thamarassery	Thusharagiri	97768	10	3335	101113	2983565
			Kakkad	3559	0	22	3581	115190
			Kakkavayal	6107	0	378	6485	188880
		Peruvannamuzhi	Peruvannamuzhi	7370	0	1097	8467	237555
		Kuttiady	Janakikkad	11001	0	193	11194	332925

Sl. No.	Division	Name of Range	Location of Eco-tourism Centre	No. of Visitors				Income Generated (in rupees)
				Native	Foreigners	Students	Total	
20	Wayanad North	Begur	Brahmagiri Trekking	2734	0	0	2734	678432
			Muneeswarakunnu	5829	0	153	5982	223309
		Mananthavady	Chirappullu	334	0	0	334	256430
21	Wayanad south	Kalpetta	Banasura -Meenmutty	0	0	0	0	0
		Meppady	Soochippara	0	0	0	0	0
			Chembra	0	0	0	0	0
		Chedalathu	Pakkom-Kuruva	0	0	0	0	0
22	Kannur	Thaliparamba	Paithalmala (Manjapullu)	24836	4	694	25534	778530
			Alakapuri & Soojippara	1499	1	1	1501	30190
			Sasippara view point	3289	0	90	3379	66470
23	Kasargod	Kanhangad	Ranipuram	22932	1	809	23742	1089810
TOTAL				1186586	202	66451	1253239	40072263

B. WILDLIFE DIVISIONS: An amount of 1105.608 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 2020-21

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	Thiruvanantha - puram WL Division	36355	27	4411	40793	1895235
2	Neyyar WLS			9783	11	0	9794	1775252
3	Peppara WLS			4593	0	0	4593	7644006
4	Shenduruney WLS	Kollam	Shenduruney WL	28925	0	625	29550	3425960
5	Thattekad bird sanctuary	Eranakulam	Idukki WLS	27176	15	2594	29785	1384938
6	Idukki WLS	Idukki		9320	4	1239	10563	1962399
7	Malabar Sanctuary	Kozhikode	Kozhikode	36892	2	1329	38223	1126795
8	Wayanad WLS	Wayanad	Tholpetty EDC	23060	3	2597	25660	3876863
			Muthanga EDC	32567	2	2256	34825	4886318
9	Parambikulam Tiger Reserve	Palakkad	Parambikkulam	17779	0	0	17779	13049956
10	Periyar East Tiger Reserve	Idukki	Thekkady in PTR	97753	67	161	97981	27553209
			Vallakkadavu PTR	2507	0	0	2507	813770
11	Silent Valley NP	Palakkad	Mukkali	6381	7	0	6388	2000490

Sl. No.	Name of Wildlife Sanctuary/National Park	District	Division	No. of Visitors				Income generated (in rupees)
				Native	Foreigners	Students	Total	
12	Eravikulam NP	Idukki	Munnar wildlife	125489	0	56	125545	26974992
13	Chinnar WLS			6859	2	0	6861	8353058
14	Pampadum shola NP			413	0	0	413	1607416
15	Chimmony WLS	Thrissur	Peechi	23531	0	61	23592	1859230
16	Aralam WLS	Kannur	Aralam	2474	0	105	2579	370945
TOTAL				491857	140	15434	507431	110560832

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	Kalayapuram Scheduled Tribe Co-operative Society
2		Paruthippally, Palode	Njaraneeli Scheduled Tribe Co-operative Society
3	Thenmala	Aryankavu	Aryankavu Girijan Co-op. Society, Aryankavu
4	Punalur	Anchal	Vanchiyodu SC/ST Society Ltd.No.Q1032, Venkolla.P.O, Madathara
5	Ranni	Ranni	Chollanavayal Girijan Service Co-op. society Ltd. No. Q 759 Adichippuzha
6		Vadasserikkara	Perunthenaruvi Girijan Service Co-op. Society Ltd No. Q 763, Vechoochira
7		Goodrical	Seethathodu- Chittar Tribal Co-op. Society.

Sl. No.	Division	Range	Name of society
8	Mankulam	Mankulam, Anakulam	Adimali Girijan Service Society
9	Kottayam	Nagarampara	Vazhathope ST Service Co-op. Society, Idukki
10	Kothamangalam	Thodupuzha, Mullaringad, Kaliyar	Tribal Co-op. Society, Vazhathoppe
11	Thrissur	Pattikkad/Vadakkancherry/Machad	Thalappilly Taluk Girijan service co-op. society Ltd No. R-673
12	Palakkad	Olavakkode, Walayar	Malampuzha Pattika Varga Co-op. Society
13	Mannarkad	Agali	Sholayar Girijan Co-op. Society
14			Kottathara Tribal Co-op Society
15		Attappadi, Mannarkad	Kurumba Tribal Co-op Society
16	Nemmara	Nelliyampathi, Kollengode	Pattikavarga Sevana Sahakarana Sangam Ltd, Malampuzha.
17	Nilambur North	Edavanna, Nilambur, Vazhikkadavu	Nilambur SC/ST Co-op. Society, Ramankuth
18	Nilambur South	Kalikavu, Karulai	Nilambur Tribal Co-op. society (No. M/114)
19	Wayanad South	Chedleth	Pulpally ST Co-op. Society
20			Sulthan Bathery ST Co-op. Society
21		Meppady, Kalpetta	Meppady ST Co-op. Society
22	Wayanad North	Begur	Thirunelly Tribal Co-op. Society, Appapara, Thirunelly. P.O.
23		Periya	Thavinhal Tribal Society, Thalapuzha
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 ON 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

Sl. No.	Circle	Sales Division	Depots	
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

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	EEL	Extension Education Institute
17	CASFOS	Central Academy for State Forest Service
18	HRD	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
31	RRT	Rapid Response Team

ABBREVIATIONS

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	Minor Forest Produce
43	FTC	Forest Training Centre
44	FIC	Forest Information Centre
45	NSC	Nature Study Centre
46	BS	Bird Sancturries
47	FSI	Forest Survey of India
48	EAP	Externally Aided Project
49	KF Act	Kerala Forest Act
50	WLP Act	Wildlife Protection Act



GOVERNMENT OF KERALA
KERALA FOREST DEPARTMENT

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