



KERALA FOREST
STATISTICS
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KERALA FOREST STATISTICS

2020





PREFACE

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

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

'Forest Statistics 2020' is one such effort made by Statistics Wing of the Department, headed by its Deputy Director (Statistics), to compile and provide vital statistical data much needed by the policy makers to formulate future policies. It is equally needed by various Scientific Institutions, Research Scholars and students of science in their endeavour.

I hope this compilation of data base about the Kerala Forest Department will be of value for all segments of the society, who are having stake on the subject

A handwritten signature in black ink, appearing to read 'P.K. Kesavan'.

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



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KERALA AT A GLANCE

<i>Geographical Area of Kerala State</i>	38863 km ²
<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 31.3.2020)

<i>Total Forest Area</i>	11521.993 km ²
<i>Total Plantation Area</i>	1563.164 km ²
<i>Total Ecologically Fragile Land (EFL) Area</i>	135.997 km ²
<i>Extent of Diversion of Forest Land</i>	384.0932 km ²
<i>Forest Cover(Forest Survey of India 2019)</i>	21144 km ²
<i>Tree Cover (Forest Survey of India 2019)</i>	2936 km ²
<i>Mangroves (Forest Survey of India 2019)</i>	9 km ²
<i>Carbon Stock in Forest</i> (Forest Survey of India 2019)	212.96 million tones
<i>Extent of Water Bodies within Forest</i> (Forest Survey of India 2019)	373 km ²
<i>Encroachment</i>	50.217 km ²
<i>Revenue from Forest (in crores)</i>	255.84
<i>Expenditure incurred (in crores)</i>	551.18
<i>Number of Wildlife Sanctuaries</i>	18
<i>Number of National Parks</i>	6
<i>Number of Community Reserve</i>	1
<i>Number of Biosphere Reserve</i>	2
<i>Area under Sanctuaries & National Parks</i>	3437.027 km ²
<i>Number of Forest Stations</i>	124
<i>Number of Check Posts</i>	66
<i>Number of Timbersales Depots</i>	28
<i>Number of Vanasree eco Shops</i>	36
<i>Number of Tribal Co-operative Societies</i>	26
<i>Number of Eco-tourism National Park and Wild life Sanctuaries Destination</i>	60
<i>Tourist Arrival in Ecotourism Destinations</i>	5598717
<i>Income Generated from Ecotourism Destinations</i>	4134.086 lakhs



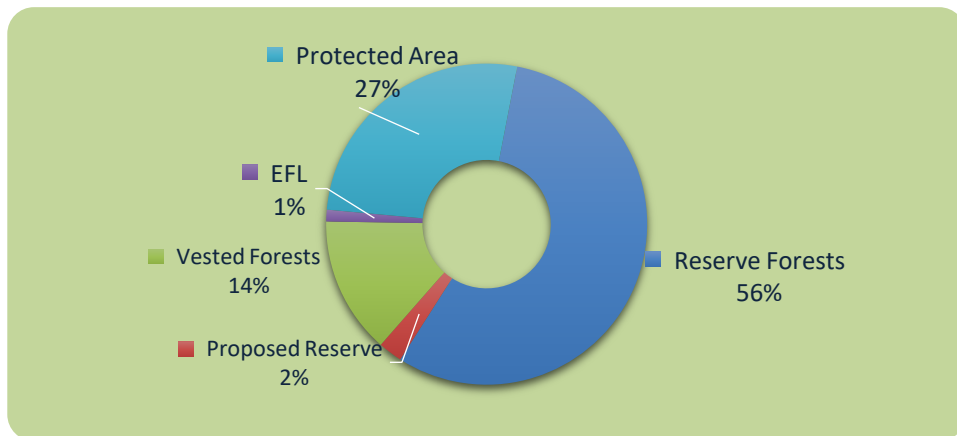
<u>Quantity of Major Forest produce</u>	
Timber	28757.16 M ³
Firewood & Billets	5793.04 MT
Sandal Wood	69692 kg
Teak Poles	14094.721 MT
Length of Road in charge of forest Department	4895.099 km
Human Wild life incidents during the year under the Report	6662 Nos.
Compensation paid to victims of wild life attack	930.06 lakhs
<u>Estimation of some important wild life species</u>	
Elephant (Dung count method-2017)	5706
Tiger (Tiger Census -2018)	190
Nilgiri Tahr (Est. population-2019)	526
Number of fire incidents relating to forest fire	359
Total destructed area by fire	11.49 km ²
Financial loss of fire incidents	0.62 lakhs
No. of seedlings raised by the department	57.70 lakhs
No. of seedlings distributed during the year	63.18 lakhs
Plantation under Kerala Forest Development Corporation	90.22 km ²
No. of Vana Samrakshana Samithies (VSS)	400
No. of Eco Development Committees (EDC)	190
Forest Area under VSS/EDC	1860.20 km ²
Number of families under VSS/EDC	
SC	10524
ST	19093
Others	41886



The forest area under the administrative charge of the department is 11521.993km² at the close of the year 2019 -20 and forms 29.65% of the total geographical area of Kerala State (38863 km²).

Reserve Forests	Proposed Reserve	Vested Forests	EFL	Protected Area	Division Total
6450.839	279.495	1589.478	135.997	3066.184	11521.993
55.99%	2.42%	13.80%	1.18%	26.61%	100%

LEGAL STATUS-WISE DISTRIBUTION OF FOREST AREA OF KERALA



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.

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.

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.

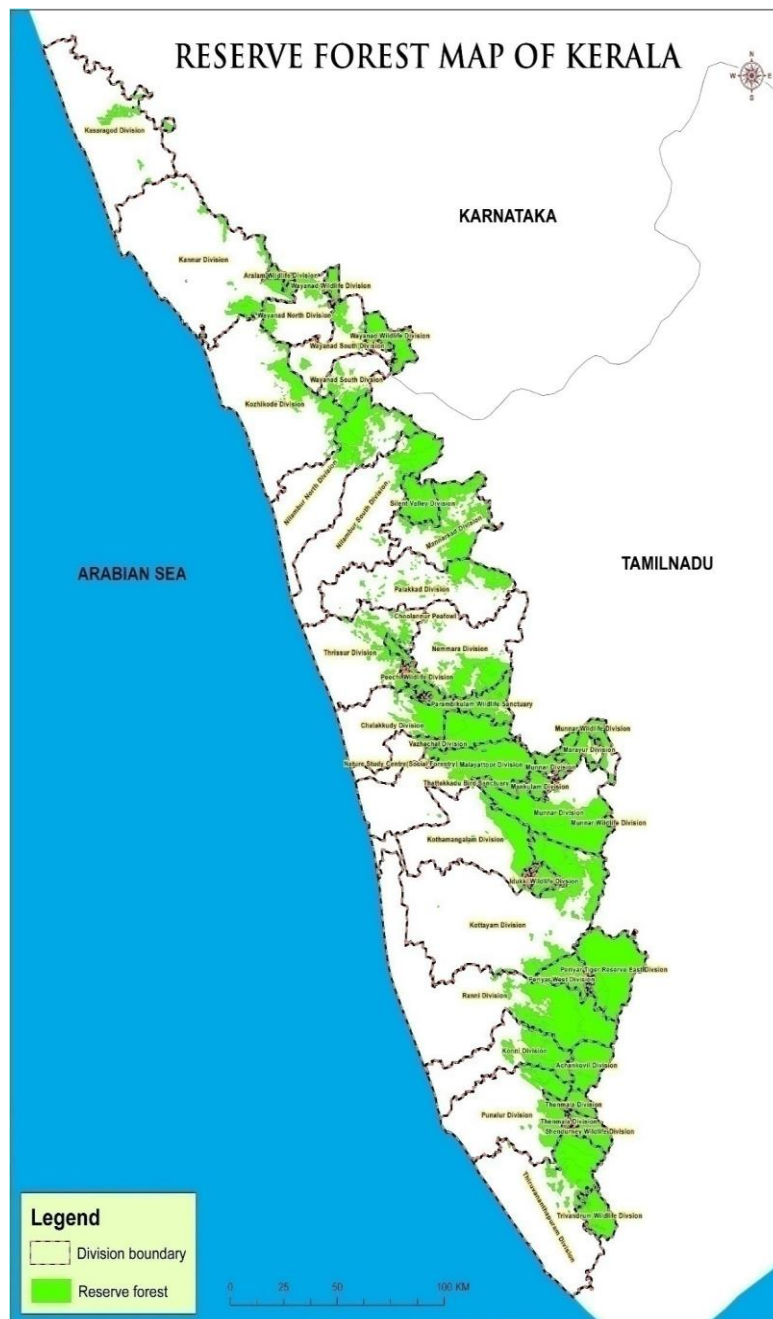


TABLE 1.2 DIVISION-WISE AREA OF FOREST AS ON 31.03.2020 (km²)

Sl. No.	Division	Reserve Forest	Proposed Reserve	Vested Forest	EFL	Protected Area	Division Total	% of Division Total
SOUTHERN CIRCLE KOLLAM								
1	Thiruvananthapuram	359.124	5.825	0.376	7.169	0	372.494	3.23
2	Thenmala	140.753	0	7.736	0.455	0	148.944	1.29
3	Achencoil	284.330	0	0.208	1.331	0	285.869	2.48
4	Ranni	902.329	7.225	1.568	0	0	911.122	7.91
5	Punalur	275.381	0	0.169	0.157	0	275.707	2.39
6	Konni	320.553	11.102	3.012	0	0	334.667	2.90
SOUTHERN CIRCLE DIVISION TOTAL		2282.470	24.152	13.069	9.112	0	2328.803	20.21
HIGH RANGE CIRCLE KOTTAYAM								
7	Kothamangalam	316.840	0	0.158	0	0	316.998	2.75
8	Munnar *	693.535	69.095	2.575	5.148	0	770.353	6.69
9	Marayoor	14.375	47.260	0.076	2.465	0	64.176	0.56
10	Mankulam	0	90.057	0	0	0	90.057	0.78
11	Kottayam **	627.286	1.069	31.967	2.666	0	662.988	5.75
HIGH RANGE CIRCLE DIVISION TOTAL		1652.036	207.481	34.776	10.279	0	1904.572	16.53
CENTRAL CIRCLE THRISSUR								
12	Vazhachal	353.414	0	0	0	0	353.414	3.07
13	Chalakydy	237.470	0	0	0.040	0	237.510	2.06
14	Malayattoor	609.725	0.556	0	0	0	610.281	5.30
15	Thrissur	207.007	0.034	4.314	0.739	0	212.094	1.84
CENTRAL CIRCLE DIVISION TOTAL		1407.616	0.590	4.314	0.779	0	1413.299	12.27

Sl. No.	Division	Reserve Forest	Proposed Reserve	Vested Forest	EFL	Protected Area	Division Total	% of Division Total
EASTERN CIRCLE PALAKKAD								
16	Mannarkkad	150.732	0	271.697	7.250	0	429.679	3.73
17	Nilambur North	58.393	0.252	371.720	9.622	0	439.987	3.82
18	Nilambur South	56.509	0	40.505	3.009	227.970	327.993	2.84
19	Palakkad	73.410	0	160.553	29.843	0	263.806	2.29
20	Nenmara	205.517	0.038	141.778	9.586	0	356.919	3.10
EASTERN CIRCLE DIVISION TOTAL		544.561	0.290	986.253	59.310	227.970	1818.384	15.78
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 Forest	Proposed Reserve	Vested Forest	EFL	Protected Area	Division Total	% of Division 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	1.86
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	6.161	0.04	0	0	0	6.201	0.06
40	Mangalavanam BS	0	0	0	0	0.027	0.027	0
DIVISION TOTAL		6.647	0.071	0	0	0.027	6.745	0.06
GRAND TOTAL		6450.839	279.495	1589.478	135.997	3066.184	11521.993	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 CLASSIFICATION OF FOREST AREA ACCORDING TO UTILIZATION AS ON 31.03.2020

Sl No.	Mode of utilization	Area (km ²)	% of Division Total
1	Dense Forests / Degraded Forest	9020.843	78.29
2	Plantation	1563.164	13.57
3	Area under lease	553.893	4.81
4	Forest land diverted under FCA	384.093	3.33
DIVISION TOTAL		11521.993	100

FOREST AREA UTILIZATION IN KERALA

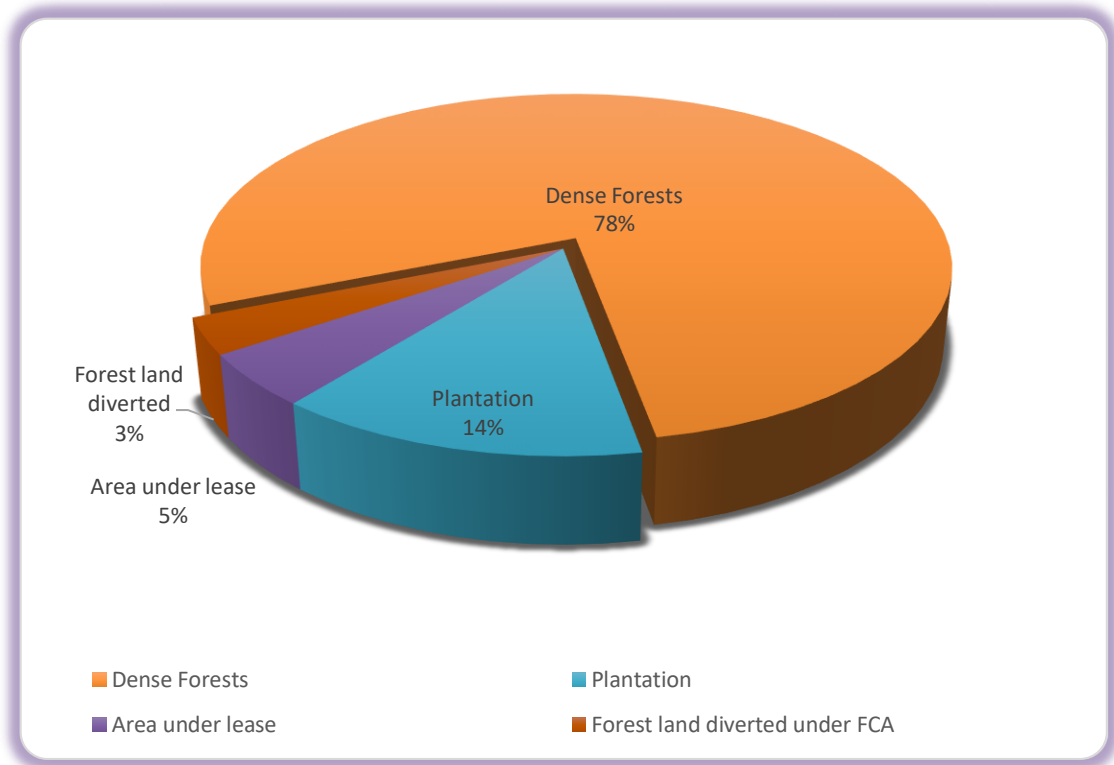


TABLE 1.4 RANGE WISE FOREST AREA AS ON 31.03.2020		
Sl. No.	Name of Range	Area(km²)
TERRITORIAL DIVISIONS		
1	Kulathupuzha	223.274
2	Palode	107.838
3	Paruthippally	41.382
THIRUVANANTHAPURAM DIVISION TOTAL		372.494
4	Ariyankavu	74.707
5	Thenmala	74.237
THENMALA DIVISION TOTAL		148.944
6	Achancovil	90.286
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	141.948
16	Mannarappara	129.914
KONNI DIVISION TOTAL		334.667
17	Thodupuzha	218.385
18	Kothamangalam	12.153
19	Kaliyar	49.080
20	Mullaringad	37.380
KOTHAMANGALAM DIVISION TOTAL		316.998
21	Munnar	136.361
22	Devikulam	356.778
23	Adimali	174.474
24	Neriyamangalam	102.740
MUNNAR DIVISION TOTAL		770.353
25	Marayoor	41.520
26	Kanthalloor	22.656
MARAYOOR DIVISION TOTAL		64.176
27	Mankulam	51.877
28	Anakulam	38.180
MANKULAM DIVISION TOTAL		90.057

Sl. No.	Name of Range	Area(km ²)
29	Erumeli	164.318
30	Ayyappancovil	89.278
31	Nagarampara	143.800
32	Kumili	265.592
KOTTAYAM DIVISION TOTAL		662.988
33	Charpa	59.975
34	Vazhachal	90.643
35	Sholayar	78.350
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	55.434
43	Thundathil	131.400
44	Kuttampuzha	187.040
45	Edamalayar	170.070
MALAYATTOOR DIVISION TOTAL		610.281
46	Vadakkancherry	56.865
47	Pattikkad	81.604
48	Machad	73.625
THRISSUR DIVISION TOTAL		212.094
49	Attappadi	170.281
50	Agali	131.469
51	Mannarkkad	127.929
MANNARKKAD DIVISION TOTAL		429.679
52	Nilambur	125.317
53	Edavanna	136.589
54	Vazhikadavu	178.081
NILAMBUR NORTH DIVISION TOTAL		439.987
55	Kalikavu	62.385
56	Karulai	265.608
NILAMBUR SOUTH DIVISION TOTAL		327.993
57	Olavakkode	81.732
58	Walayar	144.470
59	Ottappalam	37.604
PALAKKAD DIVISION TOTAL		263.806

Sl. No.	Name of Range	Area(km ²)
60	Nelliyampathi	206.577
61	Kollengode	69.714
62	Alathur	80.628
NENMARA DIVISION TOTAL		356.919
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 (Chedleth)	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	Shendurney Sancutuary	172.233
SHENDURNEY 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
85	Azhutha	149.070
PERIYAR WEST (PEERUMEDU)DIVISION TOTAL		216.000

Sl. No.	Name of Range	Area(km ²)
86	Eravikulam NP	97.000
87	Chinnar wild life sanctuary	90.442
88	Anamudy Shola NP	7.500
89	Mathikettan Shola NP	12.817
90	Pampadum Shola NP	1.318
91	Kurinjimala Sanctuary	32.000
MUNNAR WL DIVISION TOTAL		241.077
92	Idukki	105.364
93	Thattekkad	25.160
IDUKKI DIVISION TOTAL		130.524
94	Sunkom	98.620
95	Parambikulam	102.030
96	Orukkomban	75.260
97	Karimala	100.990
PARAMBIKULAM DIVISION TOTAL		376.900
98	Tholpetty	77.760
99	Kurichiyatt	106.453
100	Muthanga	74.293
101	Sulthan Bathery	86.028
WAYANAD DIVISION TOTAL		344.534
102	Silent Valley National Park	143.491
103	Bhavani	94.000
SILENT VALLEY DIVISION TOTAL		237.491
104	Peechi	125.000
105	Chimmini	85.067
106	Chulannur	3.437
PEECHI DIVISION TOTAL		213.504
107	Aralam	85.380
ARALAM DIVISION TOTAL		85.380
OTHERS		
108	TS Kozhikode	0.202
109	TS Perumbavoor	0.315
110	NSC Kalady	6.201
111	Mangalavanam BS	0.027
OTHERS TOTAL		6.745
GRAND TOTAL		11521.993

DIVERSION OF FOREST LAND

A total area of 384.0932 km² has been allotted to different agencies for non-forestry purposes as per Forest Conservation Act 1980 are summarised below.

TABLE 1.5		DETAILS OF AREA ALLOTTED TO DIFFERENT AGENCIES					
Sl. No	Category	Area diverted (Ha)	No. of cases	Degraded Forest Land (DFL) identified (Ha)	No. of cases (DFL)	Non Forest Land (NFL) identified (Ha)	No. of cases (NFL)
1	Defense	36.00	2	65.00	1	0	0
2	Dispensary/Hospital	0.61	2	0	0	0	0
3	Drinking water	7.21	23	6.71	1	0.26	1
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	38.632	26	48.76	5	0	0
10	School	12.96	5	25.90	2	0	0
11	Transmission line	755.19	66	739.86	10	351.99	9
12	Village electricity	29.255	71	12.91	2	0	0
13	Others	8034.66	71	85.26	5	158.20	4
Total		38409.317	310	58646.55	39	789.99	24

ECOLOGICALLY FRAGILE LAND (EFL) AREA

The state has notified an approximate extent of 13599.70 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 31.03.2020 is given in table 1.6

TABLE 1.6		DIVISION WISE STATUS OF ECOLOGICALLY FRAGILE LAND	
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	

Sl. No.	Division	Area (Ha)
6	Marayoor	246.50
7	Kottayam	266.60
8	Chalakydy	4.00
9	Thrissur	73.90
10	Mannarkkad	725.00
11	Nilambur North	962.20
12	Nilambur South	300.90
13	Palakkad	2984.30
14	Nenmara	958.60
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		13599.70

ENCROACHMENT

Details of encroachment of forest land as on 31.03.2020 is as follows

TABLE 1.7 DETAILS OF ENCROACHMENT OF FOREST LAND AS ON 31.03.2020			
Circle	District	Division	Extent of Encroachment (Ha)
Southern Circle Kollam	Pathanamthitta	Konni	10.59
		Ranni	1.74
	Kollam	Thenmala	7.22
SOUTHERN CIRCLE KOLLAM TOTAL			19.55
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

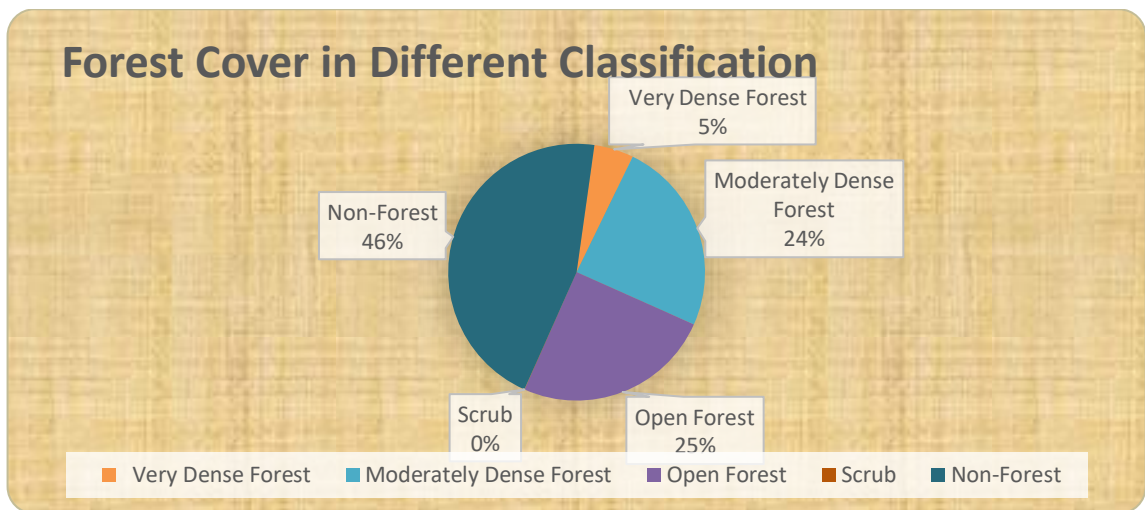
Circle	District	Division	Extent of Encroachment (Ha)
Central Circle Thrissur	Thrissur	Thrissur	189.88
		Chalakkudy	0.26
	Ernakulam	Malayattoor	126.65
CENTRAL CIRCLE THRISSUR TOTAL			316.79
Eastern Circle Palakkad	Malappuram	Nilambur North	657.87
		Nilambur South	2.12
	Palakkad	Palakkad	37.69
		Mannarkkad	664.32
		Nenmara	237.65
EASTERN CIRCLE PALAKKAD TOTAL			1599.65
Northern Circle Kannur	Kozhikode	Kozhikode	63.68
		Kozhikkode TS	0.51
	Wayanad	Wayanad South	717.63
		Wayanad North	230.51
	Kannur	Kannur	50.66
	Kasargod	Kasargod	22.67
NORTHERN CIRCLE KANNUR TOTAL			1085.66
Wildlife Circle Palakkad	Kannur	Aralam	2.00
WILDLIFE CIRCLE PALAKKAD TOTAL			2.00
Grand Total			5021.68

FOREST COVER

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

TABLE 1.8		CLASSIFICATION OF FOREST COVER	
Class	Area (sq km)	% of Geographic Area	
Very Dense forest	1935	4.98	
Moderately Dense Forest	9509	24.47	
Open Forest	9700	24.97	
Total Forest Cover *	21144	54.42	
Scrub	13	0.03	
Non-forest	17695	45.54	

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



Source: FSI 2019

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

In Kerala there are 10 Hill districts 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**

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

Source: FSI 2019

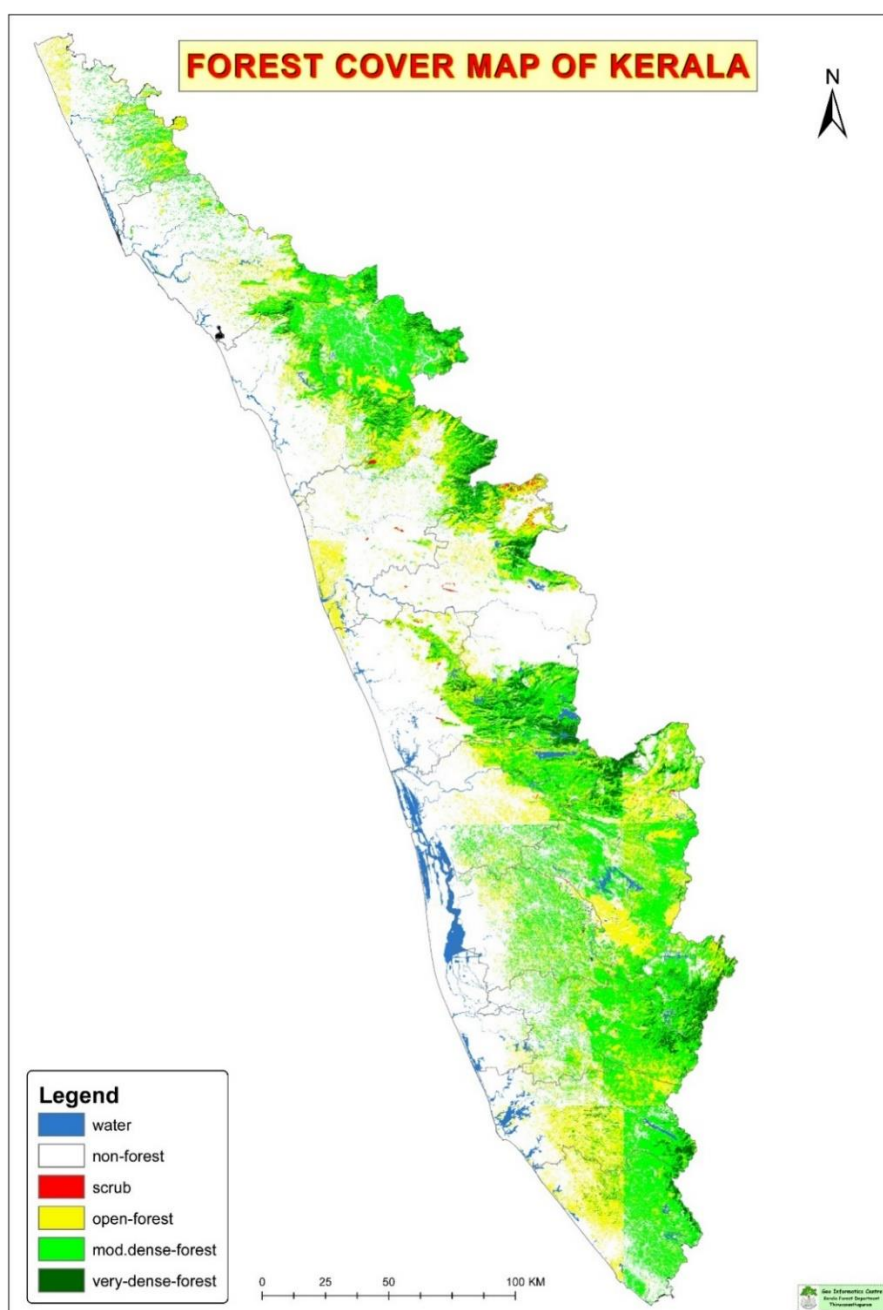


TABLE 1.9

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

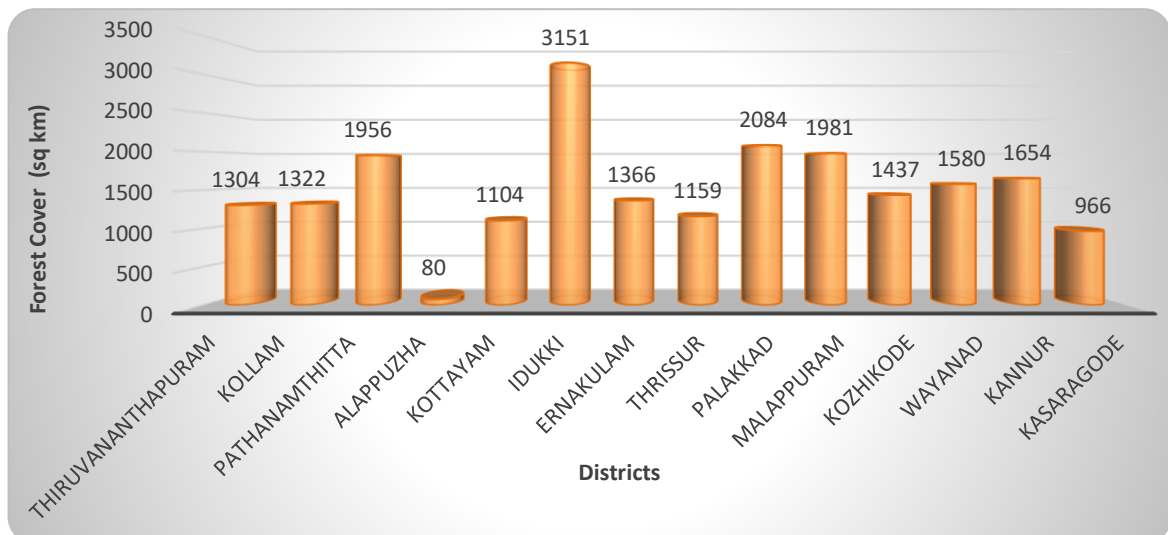
District	Geographic Area	2019 Assessment				% of Geographic Area	Change*	Scrub	Non-Forest
		Very Dense Forest	Moderately Dense Forest	Open Forest	Total Forest Cover				
Thiruvananthapuram TH	2189	57	698	549	1304	59.57	-23		885
Kollam TH	2483	104	657	561	1322	53.26	-34		1161
Pathanamthitta	2652	162	1236	558	1956	73.74	126		696
Alappuzha	1415	0	27	53	80	5.65	12		1335
Kottayam	2206	12	532	560	1104	50.06	137		1102
Idukki TH	4356	348	1796	1007	3151	72.33	12	1	1204
Ernakulam TH	3063	167	615	584	1366	44.59	93		1697
Thrissur	3027	219	476	464	1159	38.30	7	0	1868
Palakkad TH	4482	403	637	1044	2084	46.49	258	12	2386
Malappuram TH	3554	143	424	1414	1981	55.75	170	0	1573
Kozhikode ^H	2345	71	410	956	1437	61.28	-47		908
Wayanad TH	2130	189	1221	170	1580	74.19	0		550
Kannur TH	2961	58	486	1110	1654	55.86	93		1307
Kasaragode TH	1989	2	294	670	966	48.59	19		1023
State Total	38852	1935	9509	9700	21144	54.42	823	13	17695

H – Hill District ; TH – Tribal Hill Districts

*Change compared to updated FSI 2017 assessment.

Source: FSI 2019

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



Forest Cover In Kerala From 2011 To 2019

Year	2011	2013	2015	2017	2019
Forest Cover(in sq km)	17300	17922	19239	20321	21144

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

MANGROVE COVER

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

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

TABLE 1.10 DISTRICT WISE MANGROVE COVER IN KERALA (km²)

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

Source: FSI 2019

NATIONAL SCENARIO

After taking account the changes observed during assessment period ISFR 2017 and ISFR 2019, there has been increase of 3,976sq. km. forest cover at the national level. The top three states showing increase in forest cover are Karnataka (1,025 sq. km) followed by Andhra Pradesh (990 sq km) and Kerala (823 sq km). The total forest cover of the country as per the India State of Forest Report 2019 is 7,12, 249sq. km., which constitutes 21.67 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 Scurb forest cover are 3.02%, 9.39%,9.26% and 1.41% respectively. The mangrove cover in the country is 4,975 sq. km. which is 0.15% of the country's geographical area.

Source: FSI 2019

DEMARCATATION 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. 11779 numbers of jundas has constructed for demarcation of boundaries during 2019-20.

TABLE 1.11 DIVISION-WISE DEMARCATION OF FOREST BOUNDARIES AS ON 31.03.2020

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. 2020	Length of boundary which require demarcation as on 31.03. 2020	Junda constructed during 2019-20 (No.)
SOUTHERN CIRCLE KOLLAM							
1	Thiruvananthapuram	397.29	53.25	344.04	240.04	104.00	1341
2	Thenmala	250	41.21	208.79	202.55	6.24	253
3	Punalur	843.55	483.00	360.55	341.77	18.78	545
4	Achencoil	221.44	85.52	135.92	128.93	6.99	69
5	Ranni	760.92	337.35	423.57	423.57	0	0
6	Konni	159.70	51.42	108.28	108.28	0	115
SC KOLLAM-DIVISION TOTAL		2632.90	1051.75	1581.15	1445.14	136.01	2323
HIGH RANGE CIRCLE KOTTAYAM							
7	Kottayam	596.14	59.00	537.14	533.99	3.15	538
8	Munnar	1407.00	115.00	1292.00	392.38	899.62	833
9	Kothamangalam	484.11	72.51	411.60	329.75	81.85	216
10	Marayoor	105.00	27.00	78.00	75.58	2.42	75

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. 2020	Length of boundary which require demarcation as on 31.03. 2020	Junda constructed during 2019-20 (No.)
11	Mankulam	211.17	58.00	153.17	140.49	12.68	189
HRC KOTTAYAM -DIVISION TOTAL		2803.42	331.51	2471.91	1472.19	999.72	1851
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	1400
17	Palakkad	764.99	158.19	606.80	472.67	134.13	1883
18	Mannarkkad	893.00	286.00	607.00	465.11	141.89	1501
19	Nilambur (S)	294.88	128.73	166.15	164.05	2.10	0
20	Nilambur (N)	721.00	356.00	365.00	337.29	27.71	324
EC PALAKKAD - DIVISION TOTAL		3561.72	1100.62	2461.10	1998.46	462.64	5108

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. 2020	Length of boundary which require demarcation as on 31.03. 2020	Junda constructed during 2019-20 (No.)
NORTHERN CIRCLE KANNUR							
21	Kozhikode	815.39	175.49	639.9	552.49	87.41	959
22	Wayanadu (S)	1096.30	386.50	709.80	605.52	104.28	351
23	Wayanadu (N)	343.55	103.95	239.60	169.26	70.34	226
24	Kannur	503.35	48.00	455.35	455.35	0	0
25	Kasaragod	630.99	24.40	606.59	593.43	13.16	30
NC KANNUR- DIVISION TOTAL		3389.58	738.34	2651.24	2376.05	275.19	1566
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	96
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. 2020	Length of boundary which require demarcation as on 31.03. 2020	Junda constructed during 2019-20 (No.)
31	Munnar WL	342.00	41.50	300.50	216.14	84.36	238
FDPT (KOTTAYAM) WL DIVISION TOTAL		839.77	289.1	550.67	466.31	84.36	334
WILDLIFE CIRCLE PALAKKAD							
32	Peechi	161.90	151.07	10.83	5.85	4.98	9
33	Parambikulam	153.50	153.50	0	0	0	0
34	Silent Valley	198.23	121.92	76.31	62.37	13.94	102
35	Wayanad WL	474.00	300.60	173.40	150.59	22.81	486
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	597
GRAND TOTAL		16845.81	5291.07	11554.74	9541.83	2012.68	11779



The total plantation area under the department as on 31.03.2020 is 156316.351 Ha, which comes to 13.57% of the total forest area. Considering species wise distribution of plantation, Teak covers an extent of 76530.328 Ha which is 48.96% of total plantation areas. The annual revenue of the department comes mainly from the thinning and final felling of these plantations.

PLANTATION STATISTICS

Sl. No.	Category	Area (Ha)
1	Territorial Divisions	132480.778
2	Wildlife Divisions	23368.696
3	NSC, Kalady	466.877
STATE TOTAL		156316.351

Sl. No.	Plantation	Area (Ha)	Percentage
1	Hardwood	82676.333	52.89
2	Softwood	11784.564	7.54
3	Bamboo, cane & reeds	9359.465	5.99
4	Mangrove	371.068	0.24
5	Others	52124.921	33.34
STATE TOTAL		156316.351	100%

TABLE 2.3 DIVISION WISE AREA OF PLANTATION (SPECIES-WISE) AS ON 31.03.2020 (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	2978.870	589.190	1423.440	129.220	0	5120.720
4	Achenkovil	3301.668	0	3781.652	1288.971	0	8372.291
5	Ranni	4318.320	34.570	1874.910	397.410	0	6625.210
6	Konni	8477.820	51.040	912.620	611.000	0	10052.480
7	Kottayam	4034.341	356.729	1290.801	344.400	0	6026.271
8	Munnar	790.520	4399.200	1326.780	646.460	0	7162.960
9	Kothamangalam	4741.455	304.040	1208.357	282.550	0	6536.402
10	Marayoor	2.000	820.780	194.400	90.800	0	1107.980
11	Mankulam	42.250	117.600	325.630	408.350	0	893.830
12	Malayattoor	5071.860	27.550	2901.130	74.700	0	8075.240
13	Vazhachal	3830.980	479.510	2725.150	330.940	0	7366.580
14	Chalakkudy	4559.630	132.800	1332.500	232.320	0	6257.250
15	Thrissur	2252.720	249.620	4478.936	0	0	6981.276

Sl. No.	Division	Hard wood	Soft wood	Others	Bamboo, cane and reeds	Mangroves	Total
16	Nenmara	1280.108	110.420	1454.135	88.54	0	2933.203
17	Palakkad	1850.810	108.820	1424.590	173.430	0	3557.650
18	Mannarkkad	434.210	143.920	626.900	50.000	0	1255.030
19	Nilambur (south)	4536.841	0	437.416	187.500	0	5161.757
20	Nilambur (north)	4184.404	0	3209.587	1251.484	0	8645.475
21	Kozhikkode	26.240	316.450	31.750	11.000	0	385.440
22	Wayanad (south)	2332.100	1053.040	1791.580	206.000	0	5382.720
23	Wayanad (north)	610.740	415.260	3005.070	514.600	0	4545.670
24	Kannur	464.612	543.115	3645.919	102.100	251.979	5007.725
25	Kasaragod	1053.267	0	1858.615	467.212	119.089	3498.183
26	Thiruvananthapuram WL	42.580	166.100	1282.761	1166.468	0	2657.909
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	281.160	23.500	0	466.877
STATE TOTAL		82676.333	11784.564	52124.921	9359.465	371.068	156316.351

TABLE 2.4 SPECIES WISE DISTRIBUTION OF PLANTATION

Sl. No.	Species	Area (Ha)	% to total plantation
1	Teak	76530.328	48.96
2	Teak & soft wood	13449.930	8.60
3	Mangium	2895.575	1.85
4	Accacia auriculiformis	7893.918	5.05
5	Eucalyptus	6781.400	4.34
6	Cane	3431.003	2.19
7	Bamboo	5391.112	3.45
8	Rosewood	375.056	0.24
9	Mahogany	527.461	0.34
10	Sandalwood	358.880	0.23
11	Other Hardwood	1154.264	0.74
12	Reeds	537.350	0.34
13	Pepper	103.940	0.07
14	Medicinal plants	3165.779	2.02
15	Gravelia robusta	550.630	0.35
16	Pine	546.400	0.35
17	Albezzia	150.570	0.10
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	2121.570	1.36
24	Matti	495.310	0.32
25	Cashew	4446.624	2.84
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	91.500	0.06
31	Mangroves	371.068	0.24
32	Fruit bearing trees	305.543	0.20
33	Miscellaneous	23215.791	14.85
STATE TOTAL		156316.351	100

TABLE 2.5 DIVISION WISE AREA OF PLANTATION (SPECIES-WISE) AS ON 31.03.2020 (Area in Ha)

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
I	SOUTHERN CIRCLE KOLLAM										
1	Thiruvananthapuram	361.702	217.395	842.808	1789.367	235.910	0	113.760	0	0	0
2	Thenmala	1836.420	271.400	94.950	332.130	619.910	10.000	21.500	0	0	0
3	Punalur	1391.830	299.850	1475.270	711.270	589.190	0	129.220	0	0	0
4	Achencoil	3028.122	1059.977	0	0	0	1092.771	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	2437.348	3387.267	1475.010	1535.541	798.660	348.546	68.000	0
II	HIGH RANGE CIRCLE KOTTAYAM										
7	Kottayam	3947.745	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	4472.638	0	235.477	14.200	161.310	214.950	67.600	8.100	15.240	0
10	Marayoor	0	0	0	100.000	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	9210.903	78.000	248.227	170.200	2826.68	424.110	1061.760	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	111.770	0	0	137.430	0	0	0	0	0	0	0
4	Achencoil	0	52.200	0	337.115	0	0	0	0	0	0	0
5	Ranni	595.310	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	836.220	240.660	3.940	1507.281	0	0	7.000	570.707	191.960	34.570	0
II	HIGH RANGE CIRCLE KOTTAYAM											
7	Kottayam	77.694	0	0	8.500	0	61.400	0	8.902	0	0	0
8	Munnar	0	0	0	0	85.320	485.000	0	0	0	44.240	0
9	Kothamangalam	0	0	0	0	0	0	3.280	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	92.300	152.920	546.400	3.280	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	274.890	5120.720
4	Achencoil	0	0	0	0	0	0	0	0	0	0	0	2384.560	8372.291
5	Ranni	0	0	0	0	0	0	0	0	0	0	0	658.230	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	6705.100	41700.136
II	HIGH RANGE CIRCLE KOTTAYAM													
7	Kottayam	0	0	0	0	0	0	0	0	0	0	0	1178.310	6026.271
8	Munnar	0	1320.790	133.800	0	0	61.60	0	0	0	0	0	1265.180	7162.960
9	Kothamangalam	0	0	127.900	54.000	0	0	0	0	0	0	0	1140.157	6536.402
10	Marayoor	0	800.780	0	0	0	0	0	0	0	0	0	94.400	1107.980
11	Mankulam	0	0	0	0	0	12.75	0	0	0	0	0	229.080	893.8300
TOTAL		0	2121.570	261.700	54.000	0	74.35	0	0	0	0	0	3907.127	21727.443

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
III	CENTRAL CIRCLE THRISSUR										
12	Malayattoor	4903.360	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	89.860	0	0	232.320	0	0	0
15	Thrissur	2234.310	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	15478.080	5202.710	145.000	2636.486	410.730	163.660	474.300	18.410	0	0
IV	EASTERN CIRCLE PALAKKAD										
17	Nenmara	1171.348	0	0	431.657	110.420	22.240	66.300	0	2.380	100.320
18	Palakkad	1838.180	76.600	0	55.820	41.920	65.880	107.550	0	0	0
19	Mannarkkad	419.010	0	0	164.540	143.920	17.400	32.600	0	0	0
20	Nilambur (S)	4536.841	206.764	0	57.620	0	153.500	34.000	0	0	0
21	Nilambur (N)	4041.729	0	0	0	0	421.560	829.924	0	142.675	0
	TOTAL	12007.108	283.364	0	709.637	296.260	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	8075.240
13	Vazhachal	0	0	0	0	0	0	21.070	0	0	0	0	866.910	7366.580
14	Chalakkudy	0	0	25.000	215.470	0	0	0	0	0	0	0	157.190	6257.250
15	Thrissur	0	0	40.000	1994.760	0	0	0	0	0	0	0	58.700	6981.276
16	TS,Perumbavoor	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	75.300	2210.230	0	0	21.070	0	0	0	0	1205.920	28680.346
IV	EASTERN CIRCLE PALAKKAD													
17	Nenmara	0	0	0	180.440	0	0	0	0	40.000	0	0	790.758	2933.203
18	Palakkad	0	0	66.900	17.170	0	0	0	32.630	0	0	5.000	1152.850	3557.650
19	Mannarkkad	0	0	0	152.710	9.640	0	0	0	0	0	0	237.190	1255.030
20	Nilambur (S)	0	0	0	0	0	0	0	0	0	0	0	94.672	5161.757
21	Nilambur (N)	0	0	0	284.009	0	0	0	0	0	0	0	2726.800	8645.475
	TOTAL	0	0	66.900	634.329	9.640	0	0	32.630	40.000	0	5.000	5002.270	21553.115

Sl. No.	Divisions	Teak	Teak & Softwood	Mangium	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood
1	2	3	4	5	6	7	8	9	10	11	12
V	NORTHERN CIRCLE KANNUR										
22	Kozhikode	26.240	0	0	10.000	316.450	0	11.000	0	0	0
23	Wayanadu (S)	2328.100	0	0	293.880	701.980	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	390.724	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	155.738	57.720
	TOTAL	4047.613	3456.677	65.000	918.428	1220.070	627.112	663.800	0	295.666	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	0	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	10.000	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	1406.040	5382.720
24	Waynadu (N)	0	0	78.310	0	0	0	0	0	0	0	0	1662.730	4545.670
25	Kannur	0	0	0	107.250	0	0	0	0	0	251.979	0	1270.399	5007.725
26	Kasaragod	0	0	0	1127.715	0	0	0	86.240	0	119.089	0	383.990	3498.183
	TOTAL	0	0	78.310	1256.715	0	0	0	86.240	51.500	371.068	0	4723.159	18819.738
VI	AGASTHYAVANAM BIOLOGICAL PARK													
27	Thiruvananthapuram	0	0	0	25.000	0	0	0	0	0	0	300.543	500.068	2657.909
	TOTAL	0	0	0	25.000	0	0	0	0	0	0	300.543	500.068	2657.909
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	Accacia auriculiformis	Eucalyptus	Cane	Bamboo	Rosewood	Mahogany	Sandalwood	
1	2	3	4	5	6	7	8	9	10	11	12	
VIII	SOCIAL FORESTRY, ERNAKULAM											
33	NSC,Kalady	162.217	0	0	13.400	0	0	23.500	0	0	0	
TOTAL		162.217	0	0	13.400	0	0	23.500	0	0	0	
GRAND TOTAL		76530.328	13449.930	2895.575	7893.918	6781.400	3431.003	5391.112	375.056	527.461	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		1154.264	537.350	103.940	3165.779	550.630	546.400	150.570	589.609	245.160	303.510	42.100

SI 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	203.660	466.877
TOTAL		0	0	0	42.850	0	0	0	0	0	0	0	203.660	466.877
GRAND TOTAL		21.040	2121.570	495.310	4446.624	9.640	74.350	21.070	118.87	91.500	371.068	305.543	23215.791	156316.351

TABLE 2.6 DETAILS OF PLANTATIONS AFFECTED BY FIRE DURING 2019-20 (Area in Ha)

SI No.	Division	Teak	Bamboo	Accacia	Pulpwood	Miscellaneous	RDF/Mixed	Total
1	Thiruvananthapuram	0.00	0.150	0.00	0.00	0.00	0.00	0.150
2	Thenmala	9.405	0.00	0.00	0.00	0.00	0.00	9.405
3	Achenkovil	0.10	0.00	0.00	0.00	0.00	0.00	0.100
4	Ranni	2.00	0.00	0.00	0.00	0.00	0.00	2.000
5	Konni	15.25	0.00	0.00	0.00	0.00	0.00	15.25
6	Kottayam	1.90	0.00	0.00	0.00	14.40	0.00	16.300
7	Kothamangalam	8.50	0.00	0.00	0.00	0.20	0.121	8.821
8	Thrissur	4.50	8.000	133.100	8.100	4.000	0.00	157.700
9	Malayattoor	0.00	0.00	0.00	0.00	0.00	11.10	11.100
10	Chalakkudy	18.00	0.00	0.00	0.00	3.75	3.00	24.750
11	Palakkad	0.00	0.00	0.00	0.00	0.00	2.70	2.700
12	Nilambur North	13.00	0.00	0.00	0.00	0.00	2.00	15.000
13	Wayanad South	0.80	0.00	0.00	0.00	0.00	0.00	0.800
TOTAL		73.455	8.150	133.100	8.100	22.350	18.921	264.076

PLANTATIONS UNDER KERALA FOREST DEVELOPMENT CORPORATION (KFDC)

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

TABLE 2.7		SPECIES WISE PLANTATION AREA OF KFDC
Sl. No.	Species	Area (Ha)
1	Teak	1256.580
2	Acacia Auriculifomis /Acacia Manjium /Acacia Crassicarpa	1892.007
3	Eucalyptus	2024.859
4	Cardamom	994.710
5	Mahagony	9.400
6	Bamboo	834.576
7	Matti	1.800
8	Casurina	6.020
9	Tea	100.670
10	Coffee	606.167
11	Cashew	357.563
12	Rubber	57.936
13	Pepper	3.800
14	Sandal	17.970
15	Red Sanders	80.977
16	Albizia	62.95
17	Medicinal Species	0.780
18	Gmelina	47.884
19	Miscellaneous	80.263
20	Alnus	1.000
21	Pine	18.080
22	Ecological Restoration	565.930
TOTAL		9021.922



NATURAL 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 2019-20	
Sl. No.	Category	Unit	Quantity
1	Industrial wood	M ³	24029.270
2	Plywood	M ³	4173.751
3	Match wood	M ³	451.470
4	Bobbin wood	M ³	44.411
5	Pencilwood	M ³	26.121
6	Packing case wood	M ³	32.137
7	Pulpwood	MT	2900.551
8	Miscellaneous		
	a Teak Poles	MT	14094.721
	b Fire wood	MT	4322.955
	c Sandal wood	Kg	69692.000
	d Billetts	MT	1470.085

PROCUREMENT OF NON TIMBER FOREST PRODUCE (NTFP)

TABLE 3.2		PROCUREMENT OF NON TIMBER FOREST PRODUCE DURING 2019-20
Sl. No.	Name	Quantity (kg)
1	Ayurvedic herbs	329789.150
2	Spices	58418.000
3	Fibre	3820.000
4	Grass other than fodder	43843.000
5	Medicinal Trees	10226.500
6	Honey	27788.310
7	Bee Wax	118.300

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 474.003 tonnes and ₹291.045 lakhs respectively.

Details on species wise procurement and value of Minor Forest Produce during 2019-20

TABLE 3.3		DETAILS ON SPECIES WISE PROCUREMENT AND VALUE OF MINOR FOREST PRODUCE DURING 2019-20		
Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
1	Adalodakam (Pacha)	16374.00	34.00	556694.00
2	Athithippali	3614.00	63.41	229158.00
3	Broom Grass	43300.00	27.11	1174000.00
4	Cheruthen	543.06	1754.17	952620.00
5	Cheenikka	64837.10	44.11	2860271.00
6	Cheruthekku	991.00	59.12	58590.00
7	Cheruvazhuthana Pacha	20158.00	14.00	282212.00
8	Cheruvazhuthana	20618.00	47.61	981568.00

Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
9	Chittamruthu Dry	191.00	30.00	5730.00
10	Derpha Pullu	543.00	5.54	3010.00
11	Kakkumkai-Parantakai	3102.10	26.17	81195.00
12	Kalpasam	6850.10	306.84	2101889.00
13	Karimkurinji	80671.00	13.25	1068685.00
14	Kasturimanjal	564.50	84.57	47738.00
15	Kattukurumulaku valli 1st	21629.10	20.57	444989.00
16	Kattumanjal	108.00	100.00	10800.00
17	Kattu Mulakin Thandu	12658.70	197.20	2496305.00
18	Koppuvella	207.00	150.00	31050.00
19	Kudampuli	171.00	247.25	42280.00
20	Kunthirikkom 1st	4157.00	164.01	681772.80
21	Kunthirikkom 2nd	410.00	94.37	38690.00
22	Kunthirikkom 3rd	629.50	79.63	50130.00
23	Kurumthotti	15207.00	53.63	815570.00
24	Kurumthotti Pacha	92944.00	16.00	1487104.00
25	Kazhanchikuru	75.00	45.00	3375.00
26	Manjakoova	150.00	75.00	11250.00
27	Malyinchi	143.00	50.91	7280.00
28	Marottikkuru	20.00	90.00	1800.00
29	Moovila	5823.00	62.47	363744.00
30	Manjavally	417.00	64.38	26845.00
31	Njannari / Naruneendi	42.60	800.00	34080.00
32	Orila dry (Red)	300.00	45.00	13500.00
33	Orila Pacha	3862.00	51.40	198510.00
34	Pachotti patta	13091.50	60.09	786715.00
35	Padakizhangu	1336.85	338.76	452870.00
36	Palmuthakku	112.00	27.23	3050.00

Sl. No.	Item	Quantity procured (kg)	Unit price (Amount in Rs.)	Value (Amount in Rs.)
37	Pathiripoovu 1st	293.00	324.40	95050.00
38	Pathiripoovu 2nd	83.60	236.06	19735.00
39	Pattincha/Incha	3180.00	51.12	162560.00
40	Peenari	5030.00	47.03	236560.00
41	Pollakuru	83.00	35.00	2905.00
42	Ponkurandi	1364.00	66.55	90780.00
43	Raw Honey	2127.30	400.00	850920.00
44	Sathavari	490.00	15.00	7350.00
45	Soapinkai	60.00	18.00	1080.00
46	Seethari	42.00	22.00	924.00
47	Thippali/Kattuthippali	63.00	40.00	2520.00
48	Vanthen	25117.95	362.47	9104412.00
49	Vayanapoovu	100.00	900.00	90000.00
50	Wax (Bee Wax)	118.30	292.48	34600.00
TOTAL		474003.26		29104465.80

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 2019-20 is shown in below table.

TABLE 3.4		SPECIES WISE RECEIPTS OF MAJOR FOREST PRODUCE DURING 2019-20	
Sl. No.	Species	Unit	Quantity
INDUSTRIAL WOOD			
1	Teak	M ³	19492.944
2	Rosewood	M ³	186.799
3	Mahogany	M ³	48.33
4	Anjili	M ³	237.025
5	Kambakom	M ³	333.718
6	Thembavu / Karimaruthu	M ³	107.914
7	Venga	M ³	192.377
8	Venteak	M ³	245.337
9	Jack/ Plavu	M ³	94.545

Sl. No.	Species	Unit	Quantity
10	Manimaruthu	M ³	5.831
11	Maruthu	M ³	1699.035
12	Irul	M ³	794.915
13	Mulluvengai	M ³	50.894
14	Unnam/Chadachi	M ³	87.588
15	Thanni	M ³	192.619
16	Karimthakara	M ³	5.832
17	Pathiri	M ³	1.298
18	Poovam	M ³	135.448
19	Kunnivaka	M ³	14.534
20	Kanjiram	M ³	1.530
21	Mullankaini	M ³	97.429
22	Vediplavu	M ³	3.328
TOTAL			24029.270
PLYWOOD			
1	Kulamavu / Ooravu	M ³	371.876
2	Mavu	M ³	32.312
3	Redcedar/ Chandanavembu	M ³	2844.256
4	Poon/Punna/Punnavu	M ³	45.794
5	Cheeni	M ³	63.820
6	Kumbil	M ³	5.375
7	Njaval / Njara	M ³	99.854
8	Chorakali	M ³	505.615
9	Silver Oak	M ³	27.632
10	Vatta	M ³	148.897
11	Parakom	M ³	0.104
12	Thelli	M ³	8.266
13	Pothondi	M ³	7.650
14	Poomaram	M ³	2.194
15	Karuva	M ³	10.106
TOTAL			4173.751
MATCHWOOD			
1	Elavu/Poola	M ³	220.164
2	Pala / Mukkampala	M ³	142.401
3	Vaka	M ³	49.121
4	Matti	M ³	39.268
5	Murikku	M ³	0.516
TOTAL			451.470

Sl. No.	Species	Unit	Quantity
BOBBINWOOD			
1	Akil/Vellakil	M ³	19.383
2	Manjakadambu	M ³	13.644
3	Kurangagatti	M ³	11.384
TOTAL			44.411
PENCILWOODSPECIES			
1	Poochakadambu	M ³	21.251
2	Mazhamaram	M ³	4.870
TOTAL			26.121
PACKING CASE WOOD			
1	Malaveppu	M ³	1.454
2	Vetti	M ³	2.844
3	Ambazham	M ³	5.495
4	Karingazha / Poopathiri	M ³	6.653
5	Uthi	M ³	4.812
6	Pali	M ³	10.879
TOTAL			32.137
PULPWOOD			
1	Eucalyptus	MT	23.264
2	Acacia auriculiformis	MT	234.153
3	Acacia Mangium	MT	2.604
4	Bamboo	MT	1986.570
5	Reeds	MT	653.96
TOTAL			2900.551
MISCELLANEOUS			
1	Fire wood	MT	4322.955
2	Sandal wood	Kg	69692.000
3	Teak Poles	MT	14094.721
4	Billetts	MT	1470.085



HUMAN RESOURCES



STAFF STRENGTH

TABLE 3.5		DESIGNATION WISE DETAILS OF SANCTIONED STRENGTH & IN POSITION AS ON 31-03-2020	
Sl. No.	Name of post	Sanctioned Strength	In Position
1	Principal Chief Conservator of Forests	4	4
2	Addl. Principal Chief Conservator of Forests	5	5
3	Chief Conservator of Forests	11	10
4	Conservator of Forests	13	11
5	Dy. Conservator of Forest (IFS Cadre)	35	32
6	Addl. Dy. Conservator of Forests	5	2
7	Forest Tribunal (Judicial Staff)	1	1
8	Joint Secretary (Law)	1	1
9	Senior Finance Officer	1	1
10	Senior Administrative Officer	1	1
11	Deputy Director (Statistics)	1	1
12	Deputy Director (Wildlife Education)	3	3
13	Asst. Conservator of Forests / Deputy Conservator of Forests (NC)	101	101

Sl. No.	Name of post	Sanctioned Strength	In Position
14	Senior Administrative Assistant	9	7
15	Administrative Assistant	12	12
16	Personal Assistant	3	2
17	Senior Superintendent	34	34
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	70
23	Head Accountant	74	73
24	Research Assistant**	3	4
25	Senior Grade Wildlife Assistant	2	1
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	7
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

Sl. No.	Name of post	Sanctioned Strength	In Position
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
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	Gardner	4	1
75	Traker cum Gardner	3	0
76	Gardner 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

Sl. No.	Name of post	Sanctioned Strength	In Position
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
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	7239

** 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, 1310 officials of various cadres were imparted training through different training programmes. An abstract of the same is given in table 3.6

TABLE 3.6		TRAINING DETAILS DURING 2019-20
Sl. No	Training	No. of participants
A. TRAINING WITHIN THE STATE		
1	Forestry Training Centre (FTC), (O/o Conservator of Forests (HRD)	29
2	Induction Training of Beat Forest Officer at Kerala Forest Service, Arippa & Walayar	324
3	Induction Training of Deputy Range Forest Officer Trainees at Kerala Forest Service, Arippa	40
4	Induction Training of Range Forest Officer (FNTR) Trainees at Kerala Forest Service, Arippa	26
5	Induction Training of Wild Life Assistant, Trainees at Kerala Forest Service, Walayar	1

Sl. No	Training	No. of participants
6	IMG Training	545
7	Other Trainings	11
B. KEPA TRAINING		
1	Beat Forest Officers Police Training	274
TOTAL		1250
C. TRAININGS OUTSIDE STATE		
1	Extension Education Institute (EEI) , Hyderabad	6
2	IFGTB, Coimbatore	14
3	Forest Research Institute, Dehradun	2
4	Forest Survey of India, Dehradun	5
5	CASFOS, Dehradun	11
6	CASFOS, Burnihat	14
7	CASFOS, Coimbatore	4
8	Foreign Training	4
TOTAL		60
GRAND TOTAL		1310





ROAD

The type wise details of roads maintained by the department as on 31.03.2020 are given below.

TABLE 4.1		DETAILS OF ROADS DURING 2019-20
Sl. No.	Type of Road	Length (km)
1	Black Topped	493.173
2	Metalled	901.033
3	Cement Concrete	47.719
4	Earthen Road (Unsurfaced)	3453.174
TOTAL		4895.099
1	Motorable	4159.303
2	Non-motorable	735.796

BUILDINGS

A total of 3294 numbers of buildings had been maintained in the Forest Department as on 31.03.2020. The details are given below.



TABLE 4.2		DETAILS OF BUILDINGS UNDER THE DEPARTMENT
Sl. No.	Item	In position (No.)
I	Office Buildings	317
II	Rest house / Government Cottages / IB	65
III	Quarters	
	a) Type VI	23
	b) Type V	16
	c) Type IV	55
	d) Type III	204
	e) Type II	696
	f) Type I	389
	g) Other quarters	160
IV	Dormitory	90
V	Community Hall	41
VI	Forest Stations & Associated Buildings	147
VII	Other Buildings	1091
TOTAL		3294

VEHICLES

Kerala Forest Department possesses 795 numbers of different types of vehicles. Of this 686 were in running conditions. The details as on 31.03.2020 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	7	10	17
3	Ambulance / Fire Responder	2	0	2
4	Boat	36	3	39
5	Bolero	111	8	119
6	Bus/Minibus	23	1	24
7	E Rikshaw	1	0	1
8	Ford Fiesta / ATV-1	3	0	3
9	Gurkha Explorer	1	0	1
10	Indigo Car	4	6	10
11	Innova	35	0	35
12	Invader	9	1	10
13	Lorry	2	0	2
14	Mahindra Jeep	134	25	159
15	Mahindra Thar / Camper	129	3	132
16	Mahindra Xylo / Xuv / Scorpio	38	0	38
17	Maruthi Gipsy	1	0	1
18	Maruthi SX4 / Ciaz	18	0	18
19	Mini Lorry	4	0	4
20	Mini Van - Tata Ace Magic	0	2	2
21	Motor cycle	104	47	151
22	Scorpio – Get away	6	0	6
23	Tata Winger	2	2	4
24	Toyota Qualis	9	0	9
25	Verito Car / Other Cars	5	0	5
TOTAL		686	109	795

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 31.03.2020 are given below.

TABLE 4.4 DETAILS OF ARMS & AMMUNITION

Sl. No.	Circle	No. of Rifles	No. of Revolvers	No. of Gun / Pump Action Gun	No. of Ammunition (Cartridges & Bullets)
1	Sothern Circle, Kollam	30	11	4	346
2	High Range Circle, Kottayam	58	14	5	891
3	Central Circle, Thrissur	37	10	1	317
4	Eastern Circle, Palakkad	52	8	1	1475
5	Northern Circle, Kannur	30	5	0	1047
6	ABP, Thiruvananthapuram	12	7	1	1357
7	Field Director (Project Tiger), KTM	94	19	69	1765
8	Wildlife Circle, Palakkad	76	15	2	1835
9	Inspection & Evaluation, Kottayam	13	6	0	311
10	Inspection & Evaluation, Kozhikode	16	8	0	440
11	Estate Office FHQ , TVPM	10	0	0	4065
TOTAL		428	103	83	13849

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 & 4.6

TABLE 4.5 DIVISION WISE NUMBER OF FOREST STATIONS		
Sl. No.	Division	No. of Forest Stations
1	Thenmala	1
2	Achenkovil	1
3	Punalur	3
4	Konni	7
5	Ranni	9
6	Kottayam	6
7	Kothamangalam	1
8	Munnar	6
9	Marayoor	4
10	Thrissur	10
11	Vazhachal	8
12	Chalakydy	3
13	Malayattoor	14
14	Nilambur North	7
15	Nilambur South	4
16	Mannarkkad	8
17	Nemmara	3
18	Wayanad North	5
19	Wayanad South	4
20	Kozhikkode	2
21	Periyar East	1
22	Periyar West	3
23	Munnar WL	4
24	Silent Valley	2
25	Peechi	1
26	Wayanad WL	6
27	Aralam WL	1
TOTAL		124

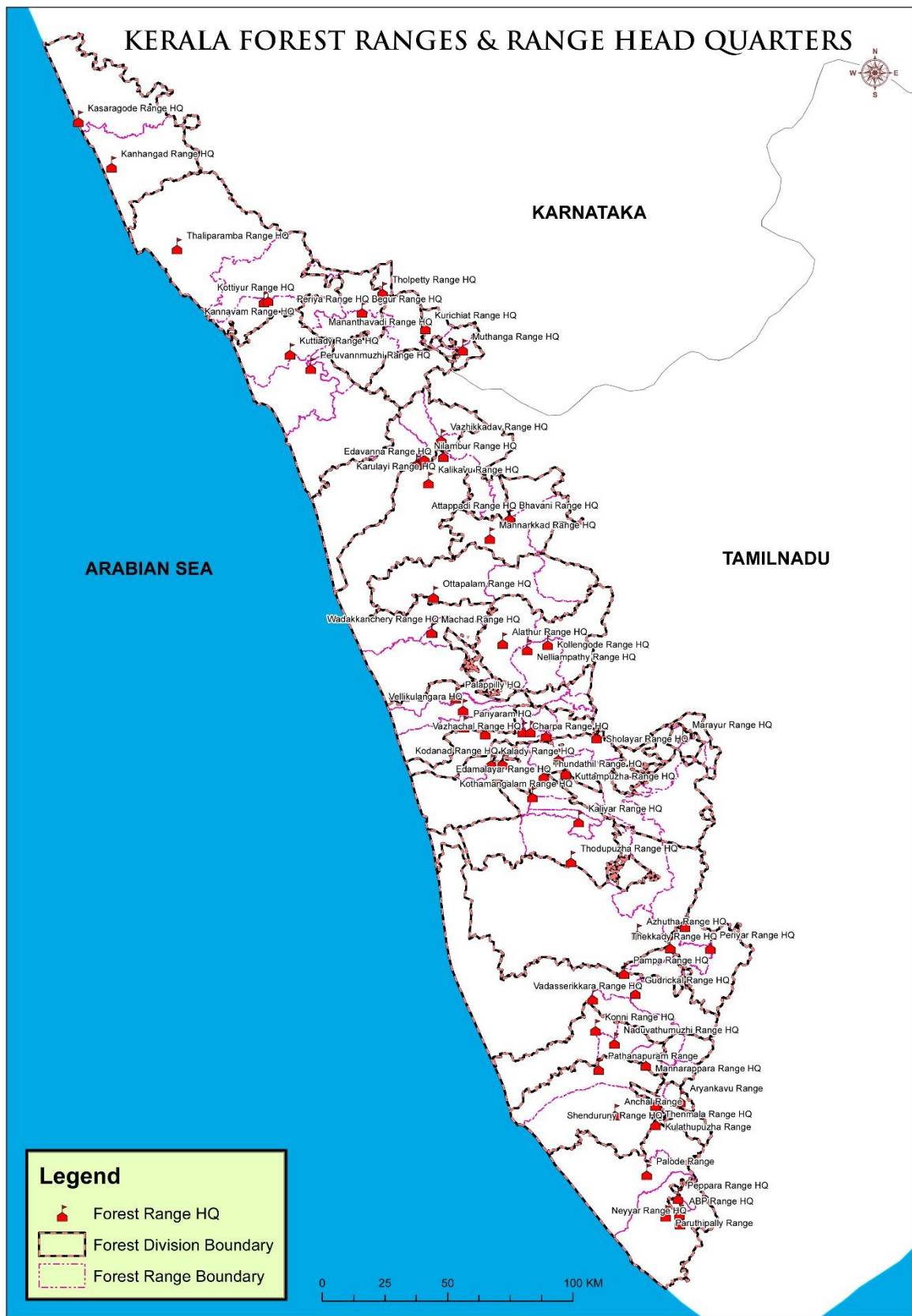


TABLE 4.6 | DIVISION / RANGE WISE DETAILS OF FOREST STATIONS

Sl.No	Division	Range	Forest Stations
SOUTHERN CIRCLE KOLLAM			
1	Thenmala	Thenmala	1 Kadamanpara
2	Achenkovil	Achenkovil	2 Kumbavarutty
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			
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
		Ayyappancoil	24 Kanchiyar
		Erumeli	25 Murinjapuzha
			26 Vandanpathal
			27 Placherry
7	Kothamangalam	Thodupuzha	28 Velloor
8	Munnar	Munnar	29 Pettimudy
		Adimali	30 Machiplavu
			31 Panamkutty
		Neriyamangalam	32 Nagarampara
			33 Inchathotty
		34 Valara	

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

Sl. No.	Division	Range	Forest Stations	
	Malayattoor	Kuttampuzha	70	Pooyamkuttu
			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
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	Pothukallu
NORTHERN CIRCLE KANNUR				
18	Wayanad (North)	Mananthavady	96	Makkiyad
		Begur	97	Thirunelly
			98	Thalapuzha
			99	Kunhome
		Periya	100	Varayal

Sl. No.	Division	Range	Forest Stations	
19	Wayanad (South)	Chedleth	101	Irulam
			102	Pulpally
		Meppadi	103	Mundakkai
			104	Vythiri
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
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 31.03.2020 is given below

TABLE 4.7 DIVISION WISE NUMBER OF CHECK-POST		
Sl. No.	Division	No. of Check-post
1	Thiruvananthapuram	1
2	Thenmala	2
3	Punalur	2
4	Konni (Temporary – 1)	2
5	Ranni	3
6	Achencovil	1
7	Kottayam	4
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 (Temporary – 1)	2
19	Kannur	1
20	Kasargod	3
21	Shenduruney	1
22	Thiruvananthapuram WL	1
23	Periyar East	5
24	Idukki	1
25	Munnar WL	5
26	Parambikulam	3
27	Wayanadu WL	5
28	Peechi	1
TOTAL		66

TABLE 4.8 | 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 (T)
6	Ranni	Gudrical	9 Kochandi
		Vadasserikkara	10 Vadasserikkara
		Ranni	11 Laha (Rajampara)
HIGH RANGE CIRCLE KOTTAYAM			
7	Kottayam	Kumili	12 Kumili
			13 Cumbummettu
		Erumeli	14 Pulluppara
			15 Vazhikadavu
8	Kothamangalam	Thodupuzha	16 Guruthikalam
9	Munnar	Neriyamangalam	17 Thalakkodu
		Adimali	18 Panamkutty
		Devikulam	19 Bodimettu
			20 Palar
10	Marayoor	Marayoor	21 Chattamunnar
		Kanthalloor	22 Pious Nagar
CENTRAL CIRCLE THRISSUR			
11	Vazhachal	Charpa	23 Vazhachal
		Sholayar	24 Malakkappara
12	Malayattoor	Kalady	25 Kadappara
		Kuttampuzha	26 Thattekadu
		Thundathil	27 Boothathankettu

Sl. No.	Division	Range	Check-posts	
EASTERN CIRCLE PALAKKAD				
13	Nenmara	Nellyampathy	28	Pothundi
		Kollengode	29	Gopalapuram
			30	Meenakshipuram
14	Mannarkkadu	Agali	31	Anakkatty (cs)
			32	Keralamedu (cs)
		Mannarkkadu	33	Anamooly (cs)
			34	Inchikunnu (cs)
15	Nilambur North	Vazhikkadavu	35	Anamari
16	Nilambur South	Karulai	36	Cherupuzha
NORTHERN CIRCLE KANNUR				
17	Kannur	Kottiyoor	37	Iritty
18	Kasargode	Kanjangad	38	Panathur
		Kasargode	39	Thalappady
			40	Kottayadi (ws)
19	Wayanad (North)	Perya	41	Niravilpuzha
			42	Boys Town (T)
20	Wayanad (South)	Meppadi	43	Cholady
		Kalpetta	44	Lakkidy
AGASTHYAVANAM BIOLOGICAL PARK				
21	Thiruvananthapuram WL	Peppara sanctuary	45	Kanithadam
22	Shenthurney	Shenthurney WLS	46	Rosemala(T)
FIELD DIRECTOR (PROJECT TIGER) KOTTAYAM				
23	Periyar East	Thekkady	47	Thekkady
		Vallakkadavu	48	Pachakkanam
			49	Anathodu
			50	Vallakkadavu
		Periyar	51	Vellimala

Sl. No.	Division	Range	Check-posts	
24	Munnar WL	Eravikulam NP	52	Rajamala
		Chinnar WLS	53	Chinnar
			54	Karimutty
		Shola NP	55	Pambadum Shola
			56	Methappu
25	Idukki WL	Idukki WLS	57	Vanmavu
WILDLIFE CIRCLE PALAKKAD				
26	Wayanadu WL	Muthanga	58	Muthanga
			59	Pazhoor
		Tholpetty	60	Tholpetty
			61	Bavali
		Kurichiat	62	Kuppadi (3 rd mile)
27	Parambikulam	Sungam	63	Anappadi
			64	Keerappadi
		Orukomban	65	Thuthanppara
28	Peechi	Chimmony	66	Echippara

ws- watching station cs - checking station T – temporary checkpost



REVENUE AND EXPENDITURE

The Forest Revenue by the way of sale of timber and other forest produce amounting to ₹255.84 crores was realised during the year 2019-20 against the target of ₹287.72 crores. The total expenditure incurred during the year was ₹551.18 crores. Comparative position of revenue and expenditure for the year 2015-16 to 2019-20.

TABLE 5.1		THE COMPARATIVE POSITION OF REVENUE & EXPENDITURE 2015-16 TO 2019-20		
Financial Year	Revenue	Expenditure (Amount in crores)		
		Plan	Non Plan	Total
2019-20	255.84	160.27	390.91	551.18
2018-19	287.20	171.69	398.20	569.89
2017-18	245.42	188.03	399.12	587.15
2016-17	296.85	239.02	368.14	607.16
2015-16	290.21	144.26	300.50	444.76

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 ₹255.84 crores during 2019-20. Major portion of the forest revenue was from timber. During 2019-20, ₹229.31 crores was collected towards revenue from the sale of timber alone which accounted for 89.63% of the total forest revenue.

TABLE 5.2 REVENUE FROM TIMBER AND OTHER FOREST PRODUCE

Sl No.	Head of Account	Amount (L)
0406-01-101 Sale of Timber and other Forest produces.		
1	99 Timber	22931.68
2	98 Firewood and Charcoal	108.01
3	97 Receipts from sale of forest produce coming under the Kerala private forest (Vesting and Assignment) Act.	0.04
4	96 Receipts from forest development tax	1244.56
5	95 Receipts under Kerala Forest Produce	16.85
6	94 Other Items	122.21
Total (101)		24423.35
0406-01-800 Other Receipts		
1	99 Interests on Arrear of Forest Revenue	85.60
2	98 Receipts from Wildlife department	221.65
3	97 Scheme for Provision of House Sites and houses to Landless Worker in Rural Area - Free Supply of Timber	0.00
4	96 Revenue Realised from the KFDC on the sale proceeds of residual growth	1.54
5	95 Other Items	827.93
6	94 Livestock	0.34
7	93 Integrated Wasteland Development Programme	0.00
8	91 Receipts on account of Lapsed and Confiscated Deposits	0.24
9	90 Forest Land Lease rent	32.02
Total (800)		1169.32
Grand Total		25592.67
	Refunds (0406-01-900-00)	8.20
	Net Revenue	25584.47

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 2019-20 an amount of ₹1244.56 lakhs was collected.

OUTSTANDING ON ACCOUNT OF FOREST REVENUE

An amount of ₹320.40 crores is outstanding on account of forest revenue (arrears) at the end of the year 2019-20.

EXPENDITURE

The total expenditure incurred during the year was 551.18 crores.

OUTLAY AND EXPENDITURE

The outlay and expenditure during 2018-19 and 2019-20 is given below.

TABLE 5.3 OUTLAY AND EXPENDITURE				
Schemes	2018-19 (crore)		2019- 20 (crore)	
	Outlay	Expenditure	Outlay	Expenditure
State sector	205.75	121.41	213.60	138.97
Central sector	100.19	50.28	42.41	21.30
EAP	0.00	0.00	0.00	0.00
Total (Plan)	305.94	171.69	256.01	160.27
Non Plan	418.85	398.20	408.99	390.91
Grand Total	724.79	569.89	665.00	551.18

The Plan expenditure under forestry sector during 2019-20 was ₹160.27 crores, which is 62.60% of the total plan outlay. Out of this, state sector accounted an expenditure of ₹138.97 crores and the expenditure for central sector was ₹21.30 crores.

DEVELOPMENTS UNDER 13TH FIVE YEAR PLAN

The year 2019-20 was the third year of the 13th Five Year Plan. The target and achievement under 13th Five Year Plan is given below.

TABLE 5.4 TARGET AND ACHIEVEMENT DURING XIII FIVE YEAR PLAN		
Year	Target(crores)	Achievement(crores)
2017-18	307.70	188.03
2018-19	305.94	171.69
2019-20	256.01	160.27

OUTLAY AND EXPENDITURE UNDER PLAN SCHEMES

During 2019-20, an expenditure of ₹16027.744 lakhs was incurred against the budget provision of ₹25601.66 lakhs. Details of budget head wise allotment and expenditure given below.

TABLE 5.5 ACHIEVEMENTS ON PLAN SCHEMES (FINANCIAL) DURING 2019-20

Sl. No.	Scheme & Head of Account	Financial(<i>in lakhs</i>)	
		Budget Outlay	Expenditure
A. State Sector Schemes			
I	Management of Natural Forests		
1	Forest Protection (2406-01-101-81)	2800.000	2588.488
2	Forest Protection (Survey of Forest Boundaries & Forest Protection) (4406-01-101-99)	2900.000	1553.489
3	Regeneration of Denuded Forests (2406-01-101-94)	277.000	193.071
4	Non-wood forest produce including Promotion of medicinal plants (2406-01-101-80)	195.000	116.009
Sub Total		6172.000	4451.057
II	Improving Productivity of Plantations		
1	Hard Wood Species (4406-01-105-87)(1)	800.000	465.630
2	Industrial Raw Materials (4406-01-105-87)(2)	300.000	238.510
Sub Total		1100.000	704.140
III	Infrastructure Development		
1	Roads (4406-01-070-99)	500.000	225.899
2	Buildings (4406-01-070-97)	1125.000	855.983
Sub Total		1625.000	1081.882
IV	Bio-diversity Conservation and PA Management		
1	Conservation of Biodiversity(2406-02-110-68)	1280.000	960.992
2	Eco Development Programme (2406-02-110-56)	350.000	244.030
Sub Total		1630.000	1205.022
V	Eco-Tourism (4406-01-800-91)	510.000	197.215
VI	Eco-Tourism – Project Green Grass (2406-01-800-52)	20.010	0.000
VII	Human Resource Development		
1	Training (2406-01-003-97)	395.000	302.759
VIII	Resource Planning & Research (2406-01-004-92)	250.000	149.252
IX	Forest Management Information&GIS (2406-01-800-57)	150.000	56.632
X	Extension Community Forestry & Agro Forestry (2406-01-800-55)		

Sl. No.	Scheme & Head of Account	Financial(in lakhs)	
		Budget Outlay	Expenditure
1	(01) Extension Forestry	1400.000	1088.735
XI	Works with assistance from RIDF (4406-01-800-90)	2500.000	816.895
XII	Measures to reduce Man Animal Conflict (2406-01-800-56)	2400.000	2063.583
XIII	Zoological Park, Wildlife Protection and Research Centre, Puthur (2406-02-110-48)	500.000	500.000
	Sub Total (A)	18652.010	12617.172
B. Schemes with Central Assistance (60% CSS)			
I	Sanctuaries		
1	Neyyar Wildlife Sanctuary (2406-02-110-39)(01)	87.500	38.950
2	Wayanad Wildlife Sanctuary (2406-02-110-39)(02)	125.000	80.136
3	Idukki Wildlife Sanctuary (2406-02-110-39)(03)	102.500	44.919
4	PeehiVazhani Wildlife Sanctuary (2406-02-110-39) (04)	102.500	56.605
5	Wildlife Sanctuary – Peppara (2406-02-110-39(05))	70.000	36.335
6	Wildlife Sanctuary – Schendurney (2406-02-110-39)(6)	90.000	42.384
7	Wildlife Sanctuary-Chimmony(2406-02-110-39) (7)	112.500	52.767
8	Wildlife Sanctuary – Aralam (2406-02-110-39) (8)	112.500	61.340
9	Wildlife Sanctuary–Chinnar (2406-02-110-39) (09)	70.000	40.518
10	Bird Sanctuary at Thattekkad (2406-02-110-39)(10)	55.000	33.392
11	Mangalavanam Bird Sanctuary(2406-02-110-39) (11)	10.000	7.521
12	Kurinjimala Sanctuary (2406-02-110-39)(12)	20.000	16.578
13	Chulannur Peacock Sanctuary (2406-02-110-39) (13)	15.000	9.809
14	Malabar Wildlife Sanctuary (2406-02-110-39)(14)	40.000	27.477
15	Kottiyoor Wildlife Sanctuary (2406-02-110-39)(15)	45.000	27.432
	Sub Total	1057.500	576.163
II	National Parks		
1	Eravikulam National Park(2406-02-110-38)(01)	110.000	66.634
2	Silent Valley National Park(2406-02-110-38)(02)	150.000	76.839
3	Anamudi Shola National Park(2406-02-110-38)(03)	30.000	25.345

Sl. No.	Scheme & Head of Account	Financial(in lakhs)	
		Budget Outlay	Expenditure
4	Mathikettan Shola National Park(2406-02-110-38) (04)	30.000	24.644
5	Pampadum Shola National Park(2406-02-110-38) (05)	40.000	31.949
	Sub Total	360.000	225.411
III	Community Reserve		
1	Integrated Development of Wildlife Habitats Management of Community Reserve (2406-02-110-37)(01)	17.500	8.377
	Sub Total	17.500	8.377
IV	Project Tiger		
1	Project Tiger Parambikulam Tiger Reserve (2406-02-110-36(01))	700.000	564.856
2	Project Tiger Parambikulam Tiger Reserve (2406-02-110-36(02))	610.000	501.916
	Sub Total	1310.000	1066.772
V	Project Elephant(2406-02-110-35)	950.000	628.208
VI	Forest Fire Prevention Management Scheme (FPMS) (2406-01-800-53)	400.000	224.869
VII	Integrated Development of Wildlife Habitat (Protection of Wildlife Outside Protected Areas (2406-02-110-52)	0.000	0.000
VIII	Nilgiri Biosphere Reserve(2406-02-110-34)	390.000	18.853
IX	Agasthyamala Biosphere Reserve (2406-02-110-33)	390.000	24.829
X	**Wetland Conservation(2406-02-110-32)	425.000	1.000
XI	Integrated Development of Wildlife Habitats to Wayanad Wildlife Sanctuary for Voluntary Relocation of Settlements from Protected Areas (2406-02-110-31)	100.000	0.000
XII	Green India Mission		
1.	National Afforestation Programme – General Component (2406-01-102-86)	876.100	0.000
2.	National Afforestation Programme - Special Component Plan for Scheduled Castes (SCP) (2406-01-789-99)	79.440	79.440
3.	National Afforestation Programme - Tribal Area Sub Plan (TSP) (2406-01-796-99)	17.460	0.000
	Sub Total	973.000	79.440
	Sub Total (B)	6373.000	2853.922

Sl. No.	Scheme & Head of Account	Financial(in lakhs)	
		Budget Outlay	Expenditure
C. Schemes with Central Assistance (75% CSS)			
1	Minimum Support Price For Minor Forest Produce (2406-01-105-89)	556.650	556.650
	Sub Total (C)	556.650	556.650
D. Assistance to Kerala Agricultural University			
1	Assistance to Kerala Agricultural University to support the training and extension needs of Kerala Forest Department (2415-01-277-86)	20.000	0.000
	Sub Total (D)	20.000	0.000
Grand Total (A+B+C+D)		25601.66	16027.744

** Under Wetland Conservation GOI approved ₹178.2017 lakhs.As per Order No F3(1)/17/2002 Dated.21.10.2019 of MoFF,GOI & Order No F.No.3-14/2005-CS(M) dated. 21.10.2019 of MoFF,GOI . GOI released an amount of ₹ 54.411 lakhs and ₹ 52.51002 lakhs respectively. (Total of ₹ 106.921 lakhs) through bank account. Total expenditure under the scheme is ₹107.790 lakhs (₹1 lakh by BAMS &106.79 lakhs by Bank account)

OUTLAY AND EXPENDITURE UNDER NON-PLAN SCHEMES

An expenditure of ₹39091.804 lakhs was incurred against the budget provision of ₹40899.580 lakhs during 2019-20. Details on budget head wise allotment and expenditure are shown in Table 5.6

TABLE 5.6 ACHIEVEMENTS ON NON-PLAN SCHEMES (FINANCIAL) DURING 2019-20			
Sl No.	Scheme & Head of Account	2019-20 (Amount In lakhs)	
		Outlay	Expenditure
I	Direction & Administration (2406-01-001)		
1	Office of the Chief Conservator of Forests (2406-01-001-99)	1634.320	1540.981
2	Office of the Conservator of Forests (2406-01-001-98)- Circle Office	715.300	757.70
3	Working Plan & Research Circle (2406-01-001-97)	72.420	652.768
4	Vigilance & Evaluation Wing (2406-01-001-96)	1754.020	1613.022
5	District Offices (2406-01-001-95)	12917.450	13316.154
6	Statistical Cell (2406-01-001-94)	4.560	4.282
7	Timber Sales Division (2406-01-001-93)	667.840	659.657
8	FD Fund Collection of add. tax on sales of Forest Produce (2406-01-001-92)	0.010	0.000
	Sub Total	17765.920	17957.075

Sl No.	Scheme & Head of Account	2019-20 (Amount In lakhs)	
		Outlay	Expenditure
II	Education & Training (2406-01-003)		
1	Training (2406-01-003-99)	428.810	491.762
Sub Total		428.810	491.762
III	Forest Research (2406-01-004)		
1	Forest Research & Training (2406-01-004-99)	62.430	60.401
2	Payment out of the KFDF for Forest Research (2406-01-004-95)	70.000	69.990
Sub Total		132.430	130.391
IV	Survey and Utilization of Forest Resources (2406-01-005)		
1	Forest Resources Survey(2406-01-005-99)	50.520	55.953
2	Survey of Forest Boundaries (2406-01-005-98)	204.150	216.239
Sub Total		254.670	272.192
V	Statistics (2406-01-013)		
1	Planning & Statistical Cell (2406-01-013-99)	196.160	146.708
Sub Total		196.160	146.708
VI	Communication & Buildings (2406-01-070)		
1	Roads & Bridges (2406-01-070-99)	56.000	23.724
2	Buildings (2406-01-070-98)	92.510	46.930
Sub Total		148.510	70.654
VII	Forest Conservation Development & Regeneration (2406-01-101)		
1	Forest Consolidation & Acquisition of Private Forests(2406-01-101-99)	4270.930	4018.724
2	Working Plans, Evaluation Survey, etc. (2406-01-101-98)	2.500	2.005
3	Silvicultural Works (2406-01-101-97)	8.000	7.895
4	Fire Protection Work (2406-01-101-96)	17.350	18.159
5	Compensatory Afforestation (2406-01-101-92)	10.000	5.440
6	Amount met out of KFDF for Planting Softwood Trees (2406-01-101-91)	400.000	355.789
7	Transfer to the fund for TEAK under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules,1999 (2406-01-101-90)	879.180	716.127

Sl No.	Scheme & Head of Account	2019-20 (Amount In lakhs)	
		Outlay	Expenditure
8	Transfer to the fund for PULPWOOD under the Kerala Forest Revolving Fund for Teak and Pulpwood Rules, 1999. (2406-01-101-89)	214.390	165.705
9	Forest Protection (2406-01-101-81)	5054.880	4809.837
Sub Total		10857.230	10099.681
VIII	Social & Farm Forestry (2406-01-102)		
1	Plantation of fast growing species (2406-01-102-99)	389.520	342.532
2	Ecology Development World Bank Assisted Social Forestry (2406-01-102-98)	2659.990	2671.139
3	Ecology Development World Bank Assisted Social Forestry, Phase-II (2406-01-102-92)	152.920	111.277
Sub Total		3202.430	3124.948
IX	Forest Produces (2406-01-105)		
1	Timber & Other Produces removed by Govt. Agencies (2406-01-105-99)	2500.000	1507.530
2	Firewood & Charcoal removed by Govt. Agencies (2406-01-105-98)	10.000	0.462
3	Other Produce removed by Govt. Agencies (2406-01-105-97)	0.080	0.000
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)	1.150	0.097
6	Livestock (2406-01-105-94)	550.000	541.952
7	Miscellaneous Advance Suspense (2406-01-105-93)	33.000	0.000
8	Teakwood (2406-01-105-92)	1043.280	1158.248
9	Softwood (2406-01-105-91)	105.420	113.293
Sub Total		4243.000	3321.582
X	Other Expenditure (2406-01-800)		
1	Forest Publicity (2406-01-800-98)	62.360	73.662
2	Forest Protection (2406-01-800-95)	1.000	0.000
3	Intensification of Forest Management (2406-01-800-93)	244.890	213.216
4	Relief to Victims Affected by the Attack of Wild Animals (2406-01-800-92)	40.000	32.731

Sl No.	Scheme & Head of Account	2019-20 (Amount In lakhs)	
		Outlay	Expenditure
5	Rewards to Informants (2406-01-800-91)	0.500	0.00
Sub Total		348.750	319.609
XI	Wildlife Preservation (2406-02-110)		
1	Wildlife Preservation (2406-02-110-99)	2303.990	2244.227
2	Periyar Tiger Reserve Project (2406-02-110-93)	296.290	279.063
3	Eco-Development Global Environmental Facilities (2406-02-110-69)	102.800	82.462
4	Conservation of Biodiversity (2406-02-110-68)	518.630	551.450
Sub Total		3221.710	3157.202
XII	LAC ADS (4406-01-101)		
1	Projects under Legislative Assembly Constituency Asset Development Scheme (4406-01-101-97)	99.950	0.000
Sub Total		99.950	0.000
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
Grand Total		40899.580	39091.804

Note: - Since the reconciliation process of the Financial Year 2019-20 was not completed, figures given in tables 44 and 45 are as per the report of Accountant General.

FUNDS RECEIVED DIRECTLY FROM GOVERNMENT OF INDIA

The scheme-wise funds received directly from Government of India and the expenditure incurred during 2019-20 are given below.

Scheme	EXPENDITURE ON FUNDS RECEIVED DIRECTLY FROM THE GOVT. OF INDIA	
	Amount Released during 2019-20 (₹in Lakhs)	Expenditure Incurred (₹in Lakhs)
CAMPA	796.00	500.00

Note: APO for the year 2016-17 to 2019-20 were approved by State CAMPA Steering Committee meeting held on 06.02.2018 and was send to Adhoc CAMPA for release of funds. Accordingly, an amount of ₹7.96 crore for the Financial Year 2016-17 & 2019-20 was released during the year 2019-20.

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 2019	During 2020	Total upto 2020
Under Kerala Forest Act	37521	429	37950
Under Wildlife Protection Act	3288	236	3524
61 A Cases	2120	66	2186
Other Acts	4811	61	4872
TOTAL	47740	792	48532

TABLE 6.2 CIRCLE WISE NUMBER OF CASES DISPOSED

Sl. No.	Circle	Disposed upto 2019	Disposed during 2020	Disposed upto 2020
1	Southern Circle, Kollam	1596	46	1642
2	High Range Circle, Kottayam	3409	11	3420
3	Central Circle, Thrissur	1427	1	1428
4	Eastern Circle, Palakkad	6115	92	6207
5	Northern Circle, Kannur	1874	24	1898
6	ABP, Thiruvananthapuram	55	1	56
7	FDPT, Kottayam	265	1	266
8	WL, Palakkad	447	4	451
	TOTAL	15188	180	15368

TABLE 6.3		CIRCLE WISE CASES CHARGED IN THE COURT		
Sl. No.	Circle	No. of Cases upto 2019	No. of Cases during 2020	No. of Cases upto 2020
1	Southern Circle, Kollam	1145	14	1159
2	High Range Circle, Kottayam	17639	18	17657
3	Central Circle, Thrissur	1464	12	1476
4	Eastern Circle, Palakkad	3438	25	3463
5	Northern Circle, Kannur	2168	31	2199
6	ABP,Thiruvananthapuram	145	0	145
7	FDPT, Kottayam	655	6	661
8	WL, Palakkad	409	0	409
TOTAL		27063	106	27169

TABLE 6.4		CIRCLE WISE CASES PENDING WITH DEPARTMENT		
Sl. No.	Circle	No. of Cases upto 2019	No. of Cases during 2020	No. of Cases upto 2020
1	Southern Circle, Kollam	1439	55	1494
2	High Range Circle, Kottayam	3245	59	3304
3	Central Circle, Thrissur	1201	26	1227
4	Eastern Circle, Palakkad	2514	89	2603
5	Northern Circle, Kannur	1315	98	1413
6	ABP,Thiruvananthapuram	66	0	66
7	FDPT, Kottayam	413	9	422
8	WL, Palakkad	304	31	335
TOTAL		10497	367	10864

TABLE 6.5 CIRCLE WISE NUMBER OF CASES BOOKED UNDER VARIOUS ACTS

Sl. No.	Circle	Under KF Act upto 2019	KF Act during 2020	KF Act at the end of 2019	Under WLP Act upto 2020	WLP Act during 2019	WLP Act at the end of 2020	Other Acts upto 2019	Other Acts during 2020	Other Act at the end of 2020	No. of 61A cases upto 2019	61 A cases during 2020	61 A cases at the end of 2020
1	SC, Kollam	3276	74	3350	583	41	624	215	10	225	137	11	148
2	HRC, Kottayam	15384	49	15433	383	17	400	2842	16	2858	587	5	592
3	CC, Thrissur	3084	51	3135	659	34	693	214	2	216	140	2	142
4	EC, Palakkad	10089	124	10213	636	51	687	900	7	907	438	7	445
5	NC, Kannur	3465	97	3562	643	74	717	536	21	557	752	39	791
6	ABP, Thiruvananthapuram	203	1	204	53	0	53	7	0	7	3	0	3
7	FDPT, Kottayam	1168	17	1185	115	6	121	28	0	28	21	0	21
8	WL, Palakkad	852	16	868	216	13	229	69	5	74	42	2	44
TOTAL		37521	429	37950	3288	236	3524	4811	61	4872	2120	66	2186

WILDLIFE SANCTUARIES & NATIONAL PARKS

During the year 2019-20, Kerala has 3437.0272 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) ***	925.000	1950
2	Neyyar Wildlife Sanctuary	128.000	1958
3	Peechi - Vazhani Wildlife Sanctuary	125.000	1958

Sl. No.	Name	Area (km ²)	Year of formation
4	Parambikulam WLS (Tiger Reserve) ****	643.660	1973
5	Wayanad Wildlife Sanctuary	344.440	1973
6	Idukki Wildlife Sanctuary	70.000	1976
7	Peppara Wildlife Sanctuary	53.000	1983
8	Thattekkad Bird Sanctuary	25.000	1983
9	Shenduruney Wildlife Sanctuary*****	166.820	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	227.97	2019
COMMUNITY RESERVE			
1	Kadalundi-Vallikunnu Community Reserve	1.500	2007
BIOSPHERE RESERVE			
1	Agasthyamala Biosphere Reserve	1828.00	2001
2	Nilgiri Biosphere Reserve	1455.40	1986

* Includes Periyar National Park (350 km²) is included in Periyar Wildlife Sanctuary

** Includes 148 km² of Buffer Zone added to Bhavani Range during 2007.

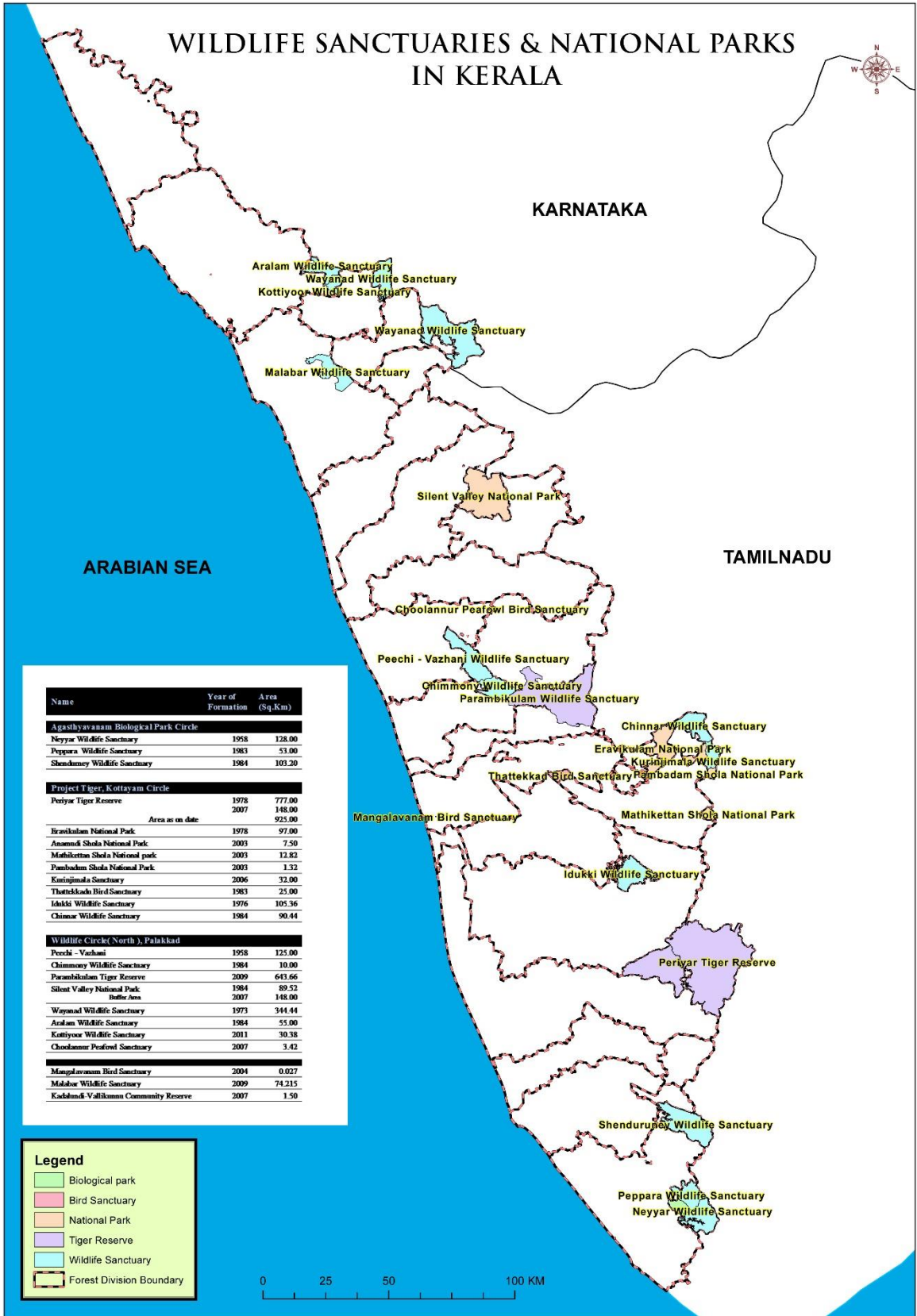
***Includes 148 km² of Critical Tiger Core area from Goodricial Range.

**** Includes Core or Critical Tiger Habitat (390.89 km²) & Buffer Zone (252.77 km²).

***** GPS surveyed area excluding estates/enclosures, pending government notification.

***** 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	1983	53.00
Shendurupay Wildlife Sanctuary	1984	103.20

Project Tiger, Kottayam Circle		
Periyar Tiger Reserve	1978	777.00
	2007	148.00
Area as on date		925.00

Eravikulam National Park	1978	97.00
Anamudi Shola National Park	2003	7.50
Mathikettan Shola National Park	2003	12.82
Pambadum Shola National Park	2003	13.32
Kattinjada Sanctuary	2006	32.00
Thattakkad Bird Sanctuary	1983	25.00
Idukki Wildlife Sanctuary	1976	105.36
Chinnar Wildlife Sanctuary	1984	90.44

Wildlife Circles (North), Palakkad		
Peechi - Vazhani	1958	125.00
Chimmony Wildlife Sanctuary	1984	10.00
Parambikulam Tiger Reserve	2009	643.66
Silent Valley National Park	1984	89.52
Buffer Area		148.00
Wayanad Wildlife Sanctuary	1973	344.44
Aralam Wildlife Sanctuary	1984	55.00
Kottiyoor Wildlife Sanctuary	2011	30.38
Choolannur Peafowl Sanctuary	2007	3.42

Mangalavanam Bird Sanctuary	2004	0.027
Malabar Wildlife Sanctuary	2009	74.215
Kadambal-Vallikunnu Community Reserve	2007	1.50

Legend

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

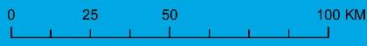


TABLE 7.2		STATUS OF MANAGEMENT PLAN	
Sl. No.	Name	Area (km ²)	Period
1	Eravikulam National Park	97.000	2012 - 2022
2	Silent valley National Park	237.520	2012 - 2022
3	Anamudi Shola National Park	7.500	2010 - 2020
4	Mathikettan Shola National Park	12.817	2010 - 2020
5	Pambadum Shola National Park	1.318	2010 - 2020
6	Periyar Tiger Reserve	925.000	2011 - 2021
7	Neyyar Wildlife Sanctuary	128.000	2012 - 2022
8	Peechi - Vazhani Wildlife Sanctuary	125.000	2012 - 2022
9	Parambikulam Tiger Reserve	643.660	2011 - 2021
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	Shenduruneey 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	2010 - 2020
19	Kurinjimala Sanctuary	32.000	2012 - 2022
20	Choolannur Pea fowl Sanctuary	3.420	2011 - 2021
21	Malabar sanctuary	74.215	2010 - 2020
22	Kadalundi - Vallikunnu Community Reserve	1.500	2016 - 2026
23	Kottiyoor Wildlife Sanctuary	30.380	2013 - 2023
24	Karimbuzha Wildlife Sanctuary	227.97	Under Processing
TOTAL		3437.027	

DETAILS OF HUMAN-WILDLIFE CONFLICT INCIDENTS

A total of 6662 Human Wildlife conflict incidents have reported in Kerala during 2019-20.

Incidents	Snake	Elephant	Wild Boar	Wild Gaur	Tiger	Leopard	Others	Total
Human Death	71	13	3	0	2	0	3	92
Human injured	548	34	97	3	0	1	16	699
Cattle Death	23	0	3	0	84	96	115	321
Cropdamage & Property loss	0	2848	1250	47	0	17	1386	5550
TOTAL	642	2895	1353	50	86	114	1520	6662

MAJOR PREVENTIVE STRUCTURES

Details of the major preventive structures constructed to mitigate human-wildlife conflict as on 31.03.2020

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	110.96	8.06	0.51	0	0	0.32	0
HRC, KTM	21.5	0	0	0	0	0	0
CC, Thrissur	33.04	0.18	0	0	0	0	0
EC, PKD	39.08	0	0	0	0	0	0
NC, Kannur	16.7	14.95	0	0	0	0	0
ABP, Tvpm	112	0.56	0	0	0	0	0
FD-PT, KTM	17.61	8.72	2.8	0	0	0.07	0
WL, Palakkad	9.5	0.26	0.19	0.09	0	0	0.13
TOTAL	360.390	32.730	3.500	0.09	0	0.39	0.13

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 2019-20, a total of ₹ 930.065 lakhs have been distributed to the victims.

TABLE 7.5		COMPENSATION PAID TO VICTIMS OF WILDLIFE ATTACK DURING 2019-20								
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	23	53.00	145	40.60	52	9.10	565	34.91	785	137.62
HRC Kottayam	8	16.40	47	14.71	32	5.82	241	35.91	328	72.83
CC Thrissur	11	27.00	128	47.36	48	6.72	571	56.32	758	137.40
EC Palakkad	33	61.80	121	49.82	37	6.66	684	69.08	875	187.35
NC Kannur	23	52.00	243	60.34	100	28.23	2742	171.47	3108	312.04
ABP Tvpmm	0	0	0	0	0	0	49	5.06	49	5.06
FD-PT Kottayam	1	10.00	1	0.10	4	0.98	75	4.31	81	15.39
WL Palakkad	3	1.5	9	2.89	57	14.23	806	43.74	875	62.37
TOTAL	102	221.7	694	215.82	330	71.74	5733	420.80	6859	930.06

RAPID RESPONSE TEAM (RRT)

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

TABLE 7.6		DETAILS OF RAPID RESPONSE TEAMS DURING 2019-20	
Sl. No.	Location of RRT	Controlling RFO	Territorial Area of Operation
1	Kannur	RFO, Kannavam	Kannur District
2	Kozhikode (Thamarassery)	RFO, Thamarassery	Kozhikode District
3	Wayanad (Sulthan Bathery)	RFO, Muthanga	Wayanad WL Division & Chedleth Range of Wayanad South Division
4	Nilambur	RFO, Nilambur	Malappuram District
5	Mannarkkad	RFO, Mannarkkad	Mannarkkad Range, Bhavani Range and Western slopes of Agali Range
6	Palakkad	RFO, Olavakkode	Nenmara and Palakkad Forest Division and Parambikulam Tiger Reserve
7	Ranni	RFO, Ranni	Alappuzha District, Konni and Ranni Forest Divisions
8	Peppara	RFO, Paruthippally	Thiruvananthapuram District
9	Kasargode	RFO, Kasargode	Kasargode District
10	Kalpetta	RFO, Kalpetta	Wayanad North, Kalpetta and Meppady Ranges of Wayanad South Division
11	Attappadi	RFO, Attappadi	Agali Range and Attappady Range within Attappady area
12	Chalakkudy	RFO, Pariyaram	Thrissur District and Malayattoor Forest Division
13	Peerumedu	RFO, Azhutha	Periyar East, West and Kottayam Forest Division
14	Munnar	RFO, Munnar	Munnar, Marayoor, Mankulam Forest Division and Munnar WL Division
15	Punalur	RFO, Anchal	Kollam District

Rapid Response Teams, from Sl. No. 1 to 8 are sanctioned vide GO(MS) 07/2012 dated 15/02/2012.

WILDLIFE CENSUS

A general Wildlife census has been conducted from 18th to 20th May 2011 in collaboration with Kerala Forest Research Institute (KFRI), Peechi, and Thrissur. Last general Wildlife census was conducted during 2002 and previously during 1993 and 1997.

TABLE 7.7		SPECIES WISE POPULATION OF ANIMALS			
Sl. No.	Species	No. of animals (1993)	No. of animals (1997)	No. of animals (2002)	No. of animals (2011)
1	Elephant	4286	5737	6965	7490
2	Gaur	4840	4151	14787	17860
3	Malabar Giant Squirrel	1384	63474	88919	---
4	Nilgiri Langur	2987	24809	51517	---
5	Sambar Deer	10665	13661	30414	32148
6	Spotted Deer	6259	14881	38391	11398
7	Wild Boar	40963	40425	60940	48034
8	Nilgiri Tahr	1075	1008	902	---
9	Tiger	76	73	71±7	---

TIGER CENSUS

Monitoring of tigers, co-predators, their prey and habitats was carried out in the forests of Kerala as part of the all India tiger estimation, as per the guidelines issued by National Tiger Conservation Authority (NTCA) from 16th to 23rd December 2013 and the new census is also in progress. The status report of tigers in India published by the Ministry of Environment, Forest and Climate Change (MoEF&CC) shows that the population of tigers in Kerala has increased to 190 from the population of 136 in 2014. The report states that the tiger population and occupancy has shown a substantial increase in Western Ghats landscape. A comparison of the population of tigers as per the past estimations is given in below.

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

ELEPHANT CENSUS

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

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

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

Source: Elephant Population Estimation 2012- Kerala

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

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 493. Out of this, 459 elephants are privately owned and 34 elephants are owned by the department. The number private and department owned elephants implanted with microchip are 459 and 29 respectively. During the report year, twenty three deaths of captive elephants are reported in the State.

TABLE 7.10 **DETAILS OF CAPTIVE ELEPHANTS AS ON 31.03.2020**

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
459	29	0	5	22	1

TABLE 7.11 **DIVISION WISE NUMBER OF DEPARTMENT ELEPHANTS**

Sl. No.	Division	Number of elephants
1	Konni	6
2	Palakkad	1
3	ERC, Kottoor (WL Division Tvpm)	16
4	Wayanad Wildlife	11
TOTAL		34

TABLE 7.12 **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	79	Male	278
	2	Rajkumar	00065EB67D	42	Makhna	301
	3	Jayasree	00065DA371	47	Female	250
	4	Ammu	00065D95E5	19	Female	258
	5	Minna	000658BFCF	19	Female	247
	6	Raja	00065DC227	7	Male	215
	7	Rana	00065ECD23	7	Male	228
	8	Podichi	00065ED152	6	Female	195
	9	Chandranath	Not implanted	27	Male	270
	10	Hari Krishnan	Not implanted	27	Male	290
	11	Arjun	000658D973	3	Male	180
	12	Poorna	00065EB6C6	3	Female	170
	13	Maya	00065D7A6E	3.5	Female	149
	14	Manu	00065EBF4D	3	Male	160
	15	Kannan	00065E9E8C	1	Male	130
	16	Sreekutty	Not implanted	1	Female	120

Division	Sl. No	Name of Elephant	Micro-chip number	Age	Sex	Height (cm)
Konni	17	Eva	00065DC7E0	18	Female	193
	18	Krishna	000658DD68	6	Male	185
	19	Meena	000658C223	26	Female	240
	20	Pinchu	Not implanted	4	Female	110
	21	Moni	00065EBD04	74	Male	308
	22	Priyadarshini	00065EA5AF	33	Female	242
Wayanad WL Division	23	Kunju	000658EF9E	33	Male	282
	24	Suryan	00065DAEE3	27	Male	278
	25	Pramugha	00065DAF41	43	Makhna	276
	26	Bharath	00065EC8A5	30	Male	263
	27	Vikram	Not implanted	36	Male	258
	28	Unnikrishnan	000658B4D6	12	Male	238
	29	Sundari	00065D78F0	11	Female	229
Wayanad WL Division	30	Ammu	00065EB384	6	Female	161
	31	Chandu	00065ECBF4	5	Male	148
	32	Neelakandan	00065EA6E9	24	Male	306
	33	Surendran	00065D7F6D	21	Male	287
Palakkad	34	Agasthyan	000658C214	12	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 populations of Nilgiri Tahr are given below.

TABLE 7.13 ESTIMATED POPULATION OF NILGIRI TAHR (2010 TO 2019)										
Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Population	776	831	789	873	894	900	664	575	643	526

TABLE 7.14		ESTIMATED POPULATION OF NILGIRI TAHR IN PARAMBIKULAM TIGER RESERVE & SILENT VALLEY NATIONAL PARK IN 2020	
Landscape	Division	Number of Nilagiri tahr sighted	
Parambilkulam	Nenmara	31	
	Chalakkudy	2	
	Malayattoor	9	
Silent Valley	Silent Valley	7	
	Mannarkkad	24	
	Palakkad	9	
TOTAL		82	

ELEPHANT CORRIDORS

TABLE 7.15		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 to be acquired
3	Nilambur - Apenkappu	Nilambur (N) & (S) Divisions	0.4	0.5	Not Notified	Land to be acquired
4	Periya at Pakranthalam	Wayanad (N)	0.5	0.2	Not Notified	Land to be acquired

Sl. No.	Name of the Corridor	Division under which the corridor falls	Corridor		Status of Notification	Remarks
			Length in (km)	Width in (km)		
5	Thirunelli - Kudrakote	Wayanad (N)	6	1 - 1.5	Yes	9.63 acres notified as extension to Wayanad WLS & remaining 8.37 acres as Reserve Forest
6	Nilambur - Kovilakom - New Amarambalam	Nilambur (N) & (S) Divisions	1	0.5	Not Notified	No acquisition needed
7	Muthumalai - Nilambur via O'valley (Ouchterlony Valley)	Nilambur (N) Forest Division & Muthumalai TR (TN)	35	0.1	Not Notified	No acquisition needed on the Kerala side

WILD ANIMALS RESCUED

During the year 2019-20, many cases of man - animal conflicts were identified and further action was taken on scientific manner. Wild animals came into human habitations were caught as per regulations and released in their natural habitat. The wildlife wing gives permissions to such operations under strict guidelines. Details of wild animals rescued are given in below.

TABLE 7.16 DETAILS OF WILD ANIMALS RESCUED		
Sl. No.	Name of Animals	Number
1	Python	4842
2	Spectacled Cobra (Indian Cobra)	3350
3	Monkey	495
4	Other Snakes	1624
5	Wild boar	931
6	Viper	627
7	Asian Palm Civet	436
8	Parrot	17
9	Ratsnake	321
10	Other Animals	37
11	Krait	152

Sl. No.	Name of Animals	Number
12	King Cobra	94
13	Other Birds	196
14	Elephant	54
15	Jungle Cat	51
16	Peacock	154
17	Sand Boa	38
18	Wild Porcupines	97
19	Fox/Jackal/Wild Dog	78
20	Eagle	75
21	Toady Cat	198
22	Sambar Deer	23
23	Tortoise	32
24	Grey Hornbill	6
25	Leopard	6
26	Malabar Giant Squirrel	25
27	Monitor lizard	98
28	Spotted deer	77
29	Barking deer	37
30	Crane	4
31	Wolf	2
32	Indian Pangolin	23
33	Mongoose	14
34	Mouse deer	5
35	Roe Deer	1
36	Tiger	2
37	Viverra	155
38	Barn Owl / Owl	227
39	Migrating Birds	17
TOTAL		14621

CHAPTER 8 OTHER VITAL INFORMATION ON FORESTRY

STATUS OF WORKING PLAN



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 31.03.2020 is given below.

TABLE 8.1 STATUS OF WORKING PLAN AS ON 31-03-2020

Sl. No.	Division	Valid up to	Status
DIVISIONS WHERE APPROVED WORKING PLAN OR MANAGEMENT PLAN IS AVAILABLE			
1	Thiruvananthapuram	31.03.2014	New WP under preparation
2	Thenmala	31.03.2019	New WP under preparation
3	Achenkoil	31.03.2018	New WP under preparation
4	Ranni	31.03.2024	Working Plan is current
5	Punalur	31.03.2021	Working Plan is current
6	Konni	31.03.2025	Working Plan is current
7	Kothamangalam	31.03.2026	Working Plan is current
8	Munnar	31.03.2020	Working Plan is current
9	Marayoor	31.03.2020	Working Plan is current
10	Mankulam	31.03.2022	Working Plan is current.
11	Kottayam	31.03.2027	Working Plan is current.
12	Vazhachal	31.03.2028	Working Plan is current.
13	Chalakkudy	31.03.2015	New WP under preparation

Sl. No.	Division	Valid up to	Status
14	Malayattoor	31.03.2025	Working Plan is current
15	Thrissur	31.03.2024	Working Plan is current
16	Mannarkkad	31.03.2022	Working Plan is current
17	Nilambur (North)	31.03.2025	Working Plan is current
18	Nilambur (South)	31.03.2024	Working Plan is current.
19	Palakkad	31.03.2019	New WP under preparation
20	Nenmara	31.03.2025	Working Plan is current
21	Kozhikkode	31.03.2021	Working Plan is current
22	Wayanad (North)	31.03.2025	Working Plan is current
23	Wayanad (South)	31.03.2022	Working Plan is current
24	Kannur	31.03.2023	Working Plan is current.
25	Kasargod	31.03.2028	Working Plan is current

FOREST FIRE STATISTICS

During the year 2019-2020 a total of 359 number of incidents relating to forest fire have been reported amounting for a total destruction of 1148.626 Ha. of forest area causing financial loss of ₹ 62,102/-.

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	3	5.15	7000
2	Thenmala	9	24.355	0
3	Punalur	7	14	4500
4	Konni	69	105.52	500
5	Achenkovil	3	4.1	0
6	Ranni	27	100.159	0
7	Kottayam	40	33.97	0
8	Marayoor	5	13	0

Sl. No.	Name of division	No. of incidents	Area destroyed by fire (Ha)	Financial loss(₹)
9	Kothamangalam	35	53.821	3800
10	Munnar	9	24.04	0
11	Malayattoor	12	25.6	0
12	Chalakyudy	17	27.396	0
13	Thrissur	14	167.2	41902
14	Nenmara	6	9.766	600
15	Palakkad	21	44.17	3800
16	Mannarkad	3	42.287	0
17	Nilambur South	8	9.74	0
18	Nilambur North	12	30	0
19	Kozhikode	3	1.609	0
20	Wayanad South	4	5.8	0
21	Wayanad North	5	4.624	0
22	Kannur	2	6.2	0
23	Kasargod	1	2.052	0
TOTAL		315	754.559	62102
WILDLIFE DIVISION				
24	Thiruvananthapuram WL	9	11.7	0
25	Periyar East	1	291.5	0
26	Munnar Wildlife	2	31.5	0
27	Idukki Wildlife	5	8.25	0
28	Peechi Wildlife	4	9	0
29	Silent Valley National Park	20	40.156	0
30	Wayanad Wildlife	2	1.9	0
31	Aralam Wildlife	1	0.061	0
TOTAL		44	394.067	0
GRAND TOTAL		359	1148.626	62102

TABLE 8.3		DETAILS OF FIRE INCIDENTS		
Year	Number of incidents	Area destroyed by fire (Ha)	Financial loss(₹)	
2015-2016	502	1975.370	25420	
2016-2017	716	3290.200	295836	
2017-2018	314	1114.814	53100	
2018-2019	434	1737.394	153015	
2019-2020	359	1148.626	62102	

FIRE PROTECTION MEASURES

Protection of the forests from fire was carried out mainly by undertaking fire lines and engaging fire protection watchers. During 2019-20, 3499.823 km length of fire line was constructed and 174578 numbers of fire watchers engaged and 1816.12 lakhs was expended for this activity.

TABLE 8.4		DETAILS OF FIRE PROTECTION MEASURES TAKEN UP DURING 2019-20			
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	129.17	2741	5474715	
2	Thenmala	145.6	5304	7743000	
3	Punalur	169.5	8044	9225478	
4	Konni	281.13	8569	8504000	
5	Achencovil	75.25	2173	3242341	
6	Ranni	180.5	8200	8665000	
7	Kottayam	67.38	4862	7701163	
8	Marayoor	21.108	2219	2091652	
9	Kothamangalam	38.2	3799	3050789	
10	Mankulam	36.65	1689	2754697	
11	Malayattoor	183.1	11671	7702860	
12	Chalakydy	23.8	6588	5356090	

Sl. No.	Name of division	Length of fire line (km)	No. of fire watchers engaged (man days)	Expenditure (amount in rupees)
13	Vazhachal	128	6689	1817620
14	Thrissur	142.66	13867	3833788
15	Nenmara	53.8	4360	5399000
16	Palakkad	100	5442	5652000
17	Mannarkad	31.6	9625	7160000
18	Nilambur South	74.33	2409	4021010
19	Nilambur North	170.6	1089	6344000
20	Kozhikode	33	4257	3863207
21	Wayanad South	80	7338	8588705
22	Wayanad North	104.4	6710	4162784
23	Kannur	52	3442	4085000
24	Kasargod	112	5325	4531264
TOTAL		2433.778	136412	130970163
WILDLIFE DIVISION				
25	Thiruvananthapuram WL	169.83	5897	7143000
26	Shenduruney	45	2025	3635000
27	Periyar East	159	6360	4206451
28	Periyar West	91.915	4819	6296751
29	Munnar WL	83.35	2581	5631932
30	Idukki WL	57.4	3530	4094550
31	Peechi WL	165	1329	5543000
32	Parambikkulam TR	82.83	1561	1422113
33	Silent valley NP	81.32	2659	3797549
34	Wayanad WL	93.1	6439	6883275
35	Aralam WL	37.3	966	1988541
TOTAL		1066.045	38166	50642162
GRAND TOTAL		3499.823	174578	181612325

SEEDLINGS



During the year 63.18 lakh of valuable seedlings have been distributed to public and planted all over the State from this 57.70 lakh seedlings have been raised.

TABLE 8.5 SPECIES WISE NUMBER OF SEEDLINGS RAISED DURING 2019-20									
Division	Teak	Mahagony	Fruit Bear - ing species	Medicinal plants	Flowering Species	Other hardwood	Protection species *	Misc.	Total
Thiruvananthapuram	912	36252	232046	70570	29691	87235	16680	0	473386
Kollam	0	8800	213600	94300	16500	63000	3800	0	400000
Pathanamthitta	2500	0	188100	60150	36750	59000	60000	293	406793
Alappuzha	0	0	263742	100242	33636	86710	50670	0	535000
Kottayam	0	0	83713	74022	68576	146210	49000	5186	426707
Idukki	9800	0	83700	42930	30000	85070	48100	400	300000
Ernakulam	40000	10900	326800	33050	105150	30200	13900	0	560000
Thrissur	0	10736	263162	46023	9767	70312	5000	0	405000

Division	Teak	Mahagony	Fruit Bear - ing species	Medicinal plants	Flowering Species	Other hardwood	Protection species *	Misc.	Total
Palakkad	25000	62780	142880	56261	40484	66978	13664	0	408047
Malappuram	0	16500	140500	68500	57000	94500	28000	0	405000
Wayanad	0	36103	125979	28204	34327	63782	12911	0	301306
Kozhikkode	0	0	117450	46930	29470	139150	0	0	333000
Kannur	0	0	119500	31500	53000	127500	10000	0	341500
Kasargode	5000	6000	147950	30330	30568	130312	60000	0	410160
NSC Kalady	0	4685	41544	3771	3244	11435	5321	0	70000
TOTAL	83212	192756	2490666	786783	578163	1261394	377046	5879	5775899

*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 2019-20, there were 400 numbers of VSSs and 190 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	20
2	Thenmala	11
3	Punalur	15
4	Konni	20
5	Ranni	34
6	Achencoil	6
7	Kottayam	13
8	Kothamangalam	10
9	Munnar	11
10	Marayoor	23

Sl. No.	Territorial Division	No. of Vana Samrakshana Samithies
11	Mankulam	9
12	Malayattoor	17
13	Vazhachal	11
14	Chalakyudy	10
15	Thrissur	21
16	Palakkad	11
17	Mannarkad	11
18	Nilambur South	14
19	Nilambur North	30
20	Nemmara	17
21	North Wayanad	17
22	South Wayanad	18
23	Kozhikode	17
24	Kannur	20
25	Kasargode	14
TOTAL		400

TABLE 8.7 DIVISION WISE NUMBER OF ECO-DEVELOPMENT COMMITTEES (EDC)		
Sl. No.	Wildlife Division	No. of Eco-Development Committees
1	Parambikulam	7
2	Aralam	3
3	Silent Valley	7
4	Wayanad WL	15
5	Peechi	12
6	Thiruvananthapuram WL	31
7	Shendurney	9
8	Idukki	9
9	Munnar WL	22
10	Periyar East	35
11	Periyar West	40
TOTAL		190

TABLE 8.8 DETAILED STATISTICS ON VANA SAMRAKSHANA SAMITHIES (VSS)

Sl. No.	Territorial Division	No. of VSS	Forest area under VSS (Ha)	No. of families		
				SC	ST	Others
1	Thiruvananthapuram	20	5936.00	394	1045	855
2	Thenmala	11	3200.00	332	408	1010
3	Punalur	15	4730.00	335	361	512
4	Konni	20	6905.00	266	92	1333
5	Ranni	34	5675.00	541	1053	2406
6	Achencoil	6	2700.00	181	141	288
7	Kottayam	13	3552.85	219	313	1465
8	Kothamangalam	10	2510.80	96	169	813
9	Munnar	11	11340.00	53	1047	577
10	Marayoor	23	1436.00	659	907	747
11	Mankulam	9	874.90	16	431	51
12	Malayattoor	17	26957.00	208	820	629
13	Vazhachal	11	14230.00	170	321	573
14	Chalakydy	10	4127.50	142	167	1598
15	Thrissur	21	3994.27	708	100	2455
16	Palakkad	11	2036.98	464	792	2009
17	Mannarkad	11	4976.00	75	537	512
18	Nilambur South	14	14099.00	199	328	1020
19	Nilambur North	30	22651.00	429	1203	4324
20	Nemmara	17	3407.00	667	302	2288
21	North Wayanad	17	13740.00	12	1538	839
22	South Wayanad	18	4416.00	67	1036	2519
23	Kozhikode	17	3901.00	310	95	2215
24	Kannur	20	5256.06	177	1608	3724
25	Kasargod	14	2480.20	342	411	2036
TOTAL		400	175132.56	7062	15225	36798

TABLE 8.9 DETAILED STATISTICS ON ECO-DEVELOPMENT COMMITTEES (EDC)

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

VANASREE 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 36 vanasree ecoshops in the State under Forest Development Agencies (FDA) including 2 mobile units.

TABLE 8.10 DIVISION WISE LOCATION OF VANASREE ECO-SHOPS

Sl. No.	Division	Name of Vanasree unit
1	Thiruvananthapuram	Ecoshop (Hqrs) Thiruvananthapuram
2	Thiruvananthapuram WL	Neyyar
3	Thiruvananthapuram WL	Kottoor
4	Thiruvananthapuram WL	Peppara
5	Achenkovil	Achenkovil
6	Thenmala	Palaruvi

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

ECO-TOURISM DESTINATIONS

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

TABLE 8.11		DISTRICT WISE NUMBER OF ECO-TOURISM WILDLIFE SANCTUARIES AND NATIONAL PARK DESTINATIONS	
Sl. No.	District	No. of destination	
1	Thiruvananthapuram	6	
2	Kollam	3	
3	Pathanamthitta	5	
4	Alappuzha	0	
5	Idukki	9	
6	Kottayam	2	
7	Ernakulam	3	
8	Thrissur	2	
9	Palakkad	6	
10	Malappuram	3	
11	Kozhikkode	5	
12	Wayanad	12	
13	Kannur	3	
14	Kasaragode	1	
TOTAL		60	

TABLE 8.12

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

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
I. THIRUVANANTHAPURAM DISTRICT						
1	1. Kottoor	Elephant ride, Sponsoring elephant feed, Bamboo rafting, Kattadikkunnu camp, Visit to interpretation centre, Rowing in the lake	By bus- 35 km from Thiruvananthapuram	A/c & Non-A/c cottages available, Kappukadu Erappupara-Mankode trekking, Kappukadu-Erappupara-Kizhakkumalappara trekking, Kappukadu-Kathirumudi trekking, Kappukadu-Kattadikkunnu trekking,	Entrance fee- Rs.35/- per Indian adult, Rs.20/- per Indian child, Rs.80/- per foreigner adult, Rs.45/- per foreigner child, Rowing in the lake- Rs.400/- per 4 indians, Rs.600/- per 4 foreigners, Bamboo rafting - Rs.100/- per indian, Rs.250/- per foreigner, Kappukadu-Erappupara-Kizhakkumalappara trekking- Rs.1000/- per 10 indians, Rs.1500/- per 10 foreigners, Kappukadu-Erappupara-Mankode trekking / Kappukadu-Kattadikkunnu trekking- Rs.2500/- per 10 indians, Rs.3500/- per 10 foreigners, Kappukadu-Kathirumudi trekking- Rs.3000/- per 10 indians, Rs.5000/- per 10 foreigners,	Deputy wadren, Kottoor-8547602969

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
2	2. Neyyar	Lion safari park, Crocodile farm, Neyyar dam, Trekking, Boating in Neyyar lake, Agasthya ecotourism centre, Kombai cruise, Kottamanpuram cruise, Rowing,	By bus- 30 KM from Trivandrum 11 KM from Kattakkada	IB available, Boat /Bus safari, Boat /Bus jumbo safari, Meenmutty trekking, Meenmutty camp, Kombai camp	Boat safari / Lion Safari - Rs.395/- per Indian adult, Rs.200/- per Indian child, Rs.555/- per foreigner adult, Rs.315/- per foreigner child, Bus safari _ Rs.160/- per Indian adult, Rs.80/- per Indian child, Rs.315/- per foreigner adult, Rs.200/- per foreigner child, Agasthya ecotourism centre -Rs.20/- per Indian adult, Rs.10/- per Indian child, Rs.35/- per foreigner adult, Rs.30/- per foreigner child, Boat jumbo safari _ Rs.500/- per indian, Rs.750/- per foreigner, Kombai cruise -Rs.4750/- for 5 Indians, Rs.6750/- for 5 foreigners, Meenmutty Camp _ Rs.5250/- for 5 Indians, Rs.7750/- for 5 foreigners, Kombai camp - Rs.4750/- for 5 Indians, Rs.6750/- for 5 foreigners,	Asst.wildlife warden,Neyyar-8547602970
3	3. Peppara	Vazhuvanthol falls visit, Agasthyarkoodam trekking, Pandipath camp, Agasthyarkoodam view tower camp, Manchadikkanam Machan camp	By bus- 50 KM from Trivandrum	Temporary camp shed available	Vazhuvanthol falls visit - Rs. 1000/- for 10 persons (Indian child and adult) Rs. 2000/- for 10 persons (Foreign child and adult) Agasthyarkoodam trekking_Season - Rs.5000/- for 5 Indians, Rs.10000/- for 5 foreigners. Off season - Rs.2000/- per Indian, Rs.4000/- per foreigner.	Asst.wildlife warden, Peppara-8547602951

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
4	4. Ponmudi	Ponmudi hills and adjacent areas	By bus- 61 KM (Trivandrum- Nedumangad- Vithura-Ponmudi)	IB (Water authority), Golden peak (KTDC), Govt.Guest house	Entry fee_ Rs.30/- per Indian Adult, Rs.10/- per indian Child, Rs.300/- per foreigner Adult, Rs.225/- per foreigner Child, Bike / Auto- Rs.15/-, Car / Jeep-Rs.30/-, Bus- Rs.60/-, Still camera - Rs.50/- Movie camera – Rs. 300/- Trek group Rs. 500/- (min. 10 members) addnl. amount for extra members Rs. 60/- per head (max. 20 members) 3 hrs. Rs. 800/- (min. 10 members) addnl. amount for extra members Rs. 100/- per head (max. 20 members) 6 hrs. Rs. 1500/- (min. 5 members) addnl. amount for extra members Rs. 400/- per head (max. 10 members) 12 hrs. Rs. 4000/- (max. 5 members) 36 hrs. Including one night halt. Rs. 6000/- (max. 5 members) 60 hrs. Including two night halt. Trekking Special class Rs. 400/- per head for one hr. Rs. 600/- per head for 1-3 hrs. Rs. 750/- per head for 3-6 hrs.	Secretary, Ponmudi Vana Samrakshana Samithi 8547600986
5	5. Mankayam	Mankayam water falls and adjacent areas	By bus- (Trivandrum- Nedumangad- Peringamala- Mangayam)			Secretary, Mankayam Vana Samrakshana Samithi 9400879969
6	6.Kallar	Meenmutty waterfalls in the evergreen forests in foot hills of Ponmudi	By bus- 29 KM (Trivandrum- Nedumangad- Vithura-Kallar)			Secretary, Kallar Vana Samrakshana Samithi 8547600956

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
II. KOLLAM DISTRICT						
7	1. Manalar Kumbhavurutty (Achencovil)	Evergreen forest, Grass land, Trekking Shola forest, Water falls, Pilgrimage, Achencovil temple of Lord Ayyappa	42 KM-(Punalur AlimukkuMullumala -Achencovil)80 KM-(Punalur-Thenmala-AryankavuShenkotta)	Waterfalls, Trekking, Nature camps, Sight seeing	Entry fee- Rs.25/- per Adult, Rs.10/- per Child (5 years to 15 years), Bike / Auto- Rs.20/-, Car / Jeep- Rs.30/-, Van / Mini bus- Rs.80/-, Bus- Rs.100/-,	DFO, Achencoil 9447979032 RFO, Achencoil 8547600500
8	2.Palaruvi (Thenmala)	Water falls, Bourdillons plot – First stumped teak plantation of Kerala in 1891	Punalur-36 KM Aryankavu-5 KM Shenkottai-20 KM Kollam-80 KM Trivandum-85 KM	Interpretation centre cum ticket counter, Vanasree eco shop, Palaruvi canteen, Bathing ghats, Visit to remains of the historical structures,	Entry fee- Rs 50/- per indian adult, Rs 25/- per indian child, Rs 30/- per student, Rs 100/- per foreigner Parking Bike / Auto- Rs.20/-, Tourist Bus- Rs.150/-, Car / Jeep- Rs.50/-, Van / Mini bus-Rs.100/-, Still camera- Rs.50/-, Movie camera-Rs.100/-, Trekking Indians - Rs 100/- Trekking foreigner- Rs 200/-	DFO,Thenmala,- 9447979037 RFO,Aryankavu- 8547601067 Palaruvi Ecotourism Office -0475 2211200, 2211700
9	3.Shendurney (Contd....)	Jungle safari, Soft trekking, Hard trekking, Night trekking, Boating, Jungle camping	Kollam- 66 KM	Trekking,boating, Camping in forests,Guide service, food, Furnished rooms,Jeep safari, Natural spa in streams	Jungle safari:- Wet'n' wild trail- Rs.400/- per Indian adult, Rs.250/- per Indian child (8 to 12 years) above 12 years Rs. 400/- per child, up to 7 years ticket free. Rs.500/- per foreigner. Chenkurinji trail- Rs.400/- per Indian adult, Rs.250/- per Indian child (8 to 12 years) Rs.500/- per foreigner.	Wildlife Warden Shendurney- 9447979081

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

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
III. PATHANAMTHITTA DISTRICT						
10	1. Konni Elephant Camp	Forest based ecotourism development with focus on captive elephants, Elephant museum, Elephant bathing, Paper unit	Pathanamthitta-12 KM	Trekking, Rock climbing, Bird watching, Elephant ride, Elephant feeding, Vanasree shop, Childrens park	Rs.20/- per adult Rs. 5/- per child	04682342005 8547600610
11	2. Adavi	Bowl boat riding & Bamboo Hut	Konni-11 KM	---	Rs.500/- for short trip journey Rs.900/- for long trip journey Rs. 4000/- room upto 4 persons (excluding food) in Bamboo Hut	04682342005 8547600610
12	3. Gavi (Pachakkanam)	Being in the buffer zone of the famed periyar tiger reserve, the area is teeming with magnificent and exclusive flora and fauna, Cardamom plantations, Waterfalls,	Kottayam railway station-120 KM Cochin airport-170 KM Thekkady- 42 KM	Day package (Spice garden visits, Paddle boat ride, etc), Stay package (Spice garden visits, Paddle boat ride, Stay in either green mansions eco lodge or swiss cottage tents, etc),	Entry fee :- Rs. 60/- per Indian Rs. 120/- per foreigner, children below 13 yrs free Day package and Stay package are available there.	8289821306 8289821004 8547809270
13	4. Kattathi	Jeep Savari	-	-	Rs. 3000/- for 4 persons	
14	5. Kalleli – Kadampupara	Not Started				

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
IV. KOTTAYAM DISTRICT						
15	1. Chellarkovil	Panoramic view of Cumbum valley in Tamilnadu	Thekkady-17 KM	Telescope watch tower garden	Service charges Entrance- Rs.20/-, Telescope- Rs.50/- Watch tower- Rs.30/-	8547601146
16	2. Kalvrimount	Panoramic view of Idukki arch dam reservoir and Idukki wildlife sanctuary	Thekkady-50 km (Along Kumily-Kattappana-Thodupuzha State highway) Painavu-15 km Kuttikkanam-55km	Resting huts Night staying huts Cafeteria Eco shop	Entrance- Rs.20/- Night staying huts- Rs.2000/- Parking Two wheeler Rs. 10/- Three wheeler Rs. 15/- Four wheeler Rs. 20/- Mini bus Rs. 50/-	8547601115
V. IDUKKI DISTRICT						
17	1. Viripara (Kainagiri)	Kainagiri water falls, Semi evergreen and grassland vegetation,	By road:- Munnar-23 km Adimaly- 28 km Kottayam-156 km Kumily-124 km Thiruvananthapuram-300 km, Aluva railway station -153 km Nedumbassery airport-153 km	Information centre cum eco shop	Waterfall seeing- Rs.20/- person Kannadipara trekking- Rs.300/- person Bathing Rs. 50/-	Range officer- 8547601560 Secretary- 8547601564 President- 9495768214

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
18	2. Anakottapara Park	No. of dolmens (on the way from Marayoor to Kanthalloor)	Munnar-41 km Udumalpet railway station-47 km Coimbatore airport-110 km	Eco shop	Entrance- Rs-10/-	04865-252988 8594070438
19	3. Rajeev Gandhi Nature Park	A huge banyan tree,	Munnar-41 km Udumalpet railway station-47 km Coimbatore airport-110 km	Park visit, Coffee shop & eco shop	Entrance-Rs-10/-	04865-252988 9446524706
20	4. Periyar Tiger Reserve	Gavi & Thekkady, Project tiger, Panoramic view of undulating mountains, multifarious cultural peculiarities of tribal communities, Best place to observe wild animals at close quarters while cruising in the safety of a boat in Periyar lake	Kumily-3 km Cochin international airport-190 km Kottayam railway station-114 km	Jungle camping, Boating, Bamboo groves(lodging), Tribal dance, Trekking,	Entrance- Rs. 40/- per Indian adult, Rs. 10/- per Indian student (Below 12 years) Rs. 475/- per foreigner, Rs. 170/- per foreigner student (Below 12 years).	Thekkady Range- 04869 22947 Vallakkadavu Range- 04869 252515 Information centre- 04869 224571

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
21	5. Eravikulam National Park	Eravikulam national park, Nilgiri thar, Lakkam waterfalls, Cascade walk, Kurinji trail	Munnar-12 km	Visit to rajamala, Eravikulam hut, Trekking, Birdwatching,	Entrance- Rs .25/- per Indian, Rs. 315/- per foreigner, Eravikulam National Park visit_ Rs. 120/- per Indian, Rs. 400/- per foreigner, Lakkam Waterfalls visit- Rs. 20/- per Indian, Rs. 20/- per foreigner, Cascade walk-Rs. 100/- per Indian, Rs. 100/- per foreigner, Kurinji trail- Rs. 150/- per Indian, Rs. 150/- per foreigner, Camping wild Rs. 3000/- for 2 Indians, Rs. 4000/- for 2 foreigners	Wildlife warden, Munnar- 9447979093
22	6. Shola National Park (Contd....)	Camping wild, Log house, Stone house, Bison swamp, Ethnic hut	Mathikettan Shola National Park:- Munnar-34 km Theni railway station-55 km Cochin airport-140 km	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	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
	6. Shola National Park	Camping wild, Log house, Stone house, Bison swamp, Ethnic hut	Pambadum Shola National Park:- Munnar-35 km	Amenity centre, Ethnic hut, Trekking,etc	Pambadum Shola National Park:- Entrance fee- Rs. 25/- per Indian, Rs. 315/- per foreigner Log house- 4000/- per 2 Indians, Rs. 5000/- per 2 foreigners, Bison swamp- Rs. 4000/- per Indian, Rs. 5000/- per foreigner Ethnic hut- 4000/- per 2 Indians, Rs. 5000/- per 2 foreigners,	Wildlife warden, Munnar- 9447979093
23	7.Thommankuthu	Ancient caves , Thomankoothu waterfalls- (comprises a series of 12 falls over a distance of 5km). The height difference between first and the last one is about 500m.	Thodupuzha-18 km	Trekking, bathing ghats(during summer season), site seei ng, Walking through lush evergreen forest, bird watching, Vanasree eco shop, Interpretation centre	Entry fee- Rs 30/- per Adult and Rs 20/- per child Trekking- Rs 1500/- per 5 persons Camera- Rs 50/- Video- Rs 250/-	Vana Samrakshana SamithiSecretary- 8547601306 Range Officer, Kaliyar- 0486-2247591, 8547601302
24	8. Meenuzhinjan Para	Not Started				

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
25	9. Chinnar Sanctuary	Wildlife sanctuary, Camping wild, Viewing diversity in altitude, Flora and fauna, Marayoor sandal forests, Pambar water falls, Tribal hamlets,etc	Munnar-40 km	Trekking, Sandal depot, Bird watching, Pambar log house, Koottar log house, Karakad tree nest, Night jar camping Churulipetty log house, Vashyappara mud house,	Entrance fee- Rs. 25/- per Indian, Rs. 315/- per foreigner Trekking(Koottar, Pambar, Churulipetty)- Rs. 225/- per Indian, Rs. 615/- per foreigner Trekking(Vashyappara) - Rs. 600/- per Indian, Rs. 1300/- per foreigner Pambar log house / Koottar log house / Churulipetty log house / Karakad tree nest- Rs. 3000/- per 2 Indians, Rs. 4000/- per 2 foreigners, Vashyappara mud house- 4000/- per 2 Indians, Rs. 5000/- per 2 foreigners,	Wildlife- Warden,Munnar- 9447979093
VI. ERNAKULAM DISTRICT						
26	1. Mulamkuzhy	Periyar river bank with riverine forest, Teak plantation, Mahaganithottam	Perumbavoor- 20km Aluva railway station-35 km Cochin international airport-20 km	Parking ground, Cafeteria, Vanasree eco shop, Trek path, Danger line indicator,	Visitors- Rs 20/- for Indian adult Rs. 10/- for Indian child Rs. 50/- for foreign adult & child Parking fee Bike / Auto-Rs.10/-, Light motor vehicle- Rs.25/-, Heavy vehicle- Rs.60/-, Camera-Rs.50/-Video-Rs. 100/-	DFO, Malayattoor- 944797953 8547604231

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
27	2. Paniyeliporu	Periyar river bank with riparian forest, Water Falls.	Perumbavoor- 20 KM Aluva railway station-35 KM Cochin international airport-20 KM	Vanasree eco shop, Trek path, Parking ground, Cafeteria, Danger line indicator,	Visitors- Rs 20/- for Indian adult Rs. 10/- for Indian child Rs. 50/- for foreign adult & child Parking fee: Bike Auto-Rs.10/- Light motor vehicle- Rs.25/-, Heavy vehicle- Rs.60/- Camera-Rs.50/- Video-Rs. 100/-	DFO, Malayattoor- 944797953, Office: 8086666136
28	3. Kodanadu Elephant Camp	Situated near Periyar Bank		Rehabilitation Centre and Nature Appreciation Area	Entry fee- Indian adult Rs. 10/- and children above 5 years Rs. 5/- Rs. 25/- for foreigner Parking – Two wheeler Rs. 5/-, Car/Jeep Rs. 10/-, Mini bus / tempo Rs. 20/- Parking heavy vehicles Rs. 30/-	ACF NSC Kalady 9447979164 Office 0484 2468680

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VII. THRISSUR DISTRICT						
29	1. Athirapilly and Vazhachal	Water falls, Beautiful Vazhachal rapids,	Chalakkudy railway station-30 KM Cochin international airport-55 KM	IB & Dormitory, Nature camps, Trekking,	Entry fee:- Rs 30/- per indian adult, Rs 2/- per indian child, Rs 10/- per student, Rs 100/- per foreigner Parking fee:- Bike / Auto- Rs.10/-, Light motor vehicle-Rs.20/-, Medium vehicle- Rs.30/-, Heavy vehicle- Rs.50/-, Camera-Rs.20/-, Video Camera- Rs.200/-	DFO, Vazhachal 9447979055, 0480-2701713
30	2. Chimmony	Zone of Western Ghats, Medicinal plants diversity,	Thrissur railway station-35 KM Cochin international airport-60 KM	Trekking, Tented accomodation, Tree top huts, Bird watching, Bamboo rafting, Myna eco retreat, Dormitory	Trekking- Rs.200/- person Bamboo rafting- Rs.1000/-4 persons (minimum 4 person) Myna eco retreat- Rs.7500/- for 3 person Dormitory- Rs.160/- per bed per day	Asst. Wildlife Warden- 8547603451 Chimmony Range- 0480 2766972

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
VIII. PALAKKAD DISTRICT						
31	1. Silent Valley	National park,Thick evergreen forest	Palakkad railway station-60 KM- (Palakkad to Mannarkad, on the way to Anakkatty, Mukkali stop.) Cochin international airport-165 KM	Visit to wet evergreen forests, Trekking, Nature education	Entry fee (By bus) – Rs 400/- per Indian adult, Rs 300/- per Indian student, Rs 700/- per foreigner. Entry fee (By jeep) - Rs 2000 - for 5 persons. Rs. 2300/- per foreigner Parking Light motor vehicle- Rs.15/- Heavy vehicle- Rs.20/-	04924-253225 8589895652 9645586629
32	2. Parambikulam Tiger Reserve (Contd....)	Tiger reserve, Bio diversity hot spot,	Palakkad- 100 km Coimbatore - 100 km Thrissur-120 km	Vehicle safari, Trekking, Bird watching, Dam view point, Vanasree eco shop, Camping facilities- (Tented niche, Honey comb, Civet valley, Veettikunnu island nest, Tree top huts, Cheetal valley, Bison valley, Bear hut,etc) Paid nature camps.	Entrance fee- Rs 25/- per Indian adult, Rs 315/- per foreigner, Light motor vehicle- Rs.80/-, Heavy vehicle- Rs.315/-, Camera- Rs.40/-, Video camera-Rs.315/-, Vehicle safari- Rs. 200/- per person Tented niche (Capacity:21) For Indians-s. 5500/- (week days), Rs. 6600/- (holidays), For foreigners-Rs. 8800/- (week days), Rs. 11000/- (holidays),	Information Centre, Anappady- 9442201690 9442201691

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

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
33	3. Minnampara	Natural beauty of grass land and view point in Nelliampathy	Nenmara- 13 km Minnampara to Grass land-6 km (by Jeep)	—	Rs. 50/- per person Jeep :- Rs. 100/- per person Rs. 80/- Halt entry one day Rs. 100/- Halt entry two days Rs. 150/- Entry fee for foreigners Rs. 200/- Halt entry fee for foreigners one day Rs. 250/- Halt entry fee for foreigners two days Rs. 50/- Students pass	Section forest Officer- 8547602165, 8547602162
34	4. Dhoni	Water falls, Panoramic view	Dhoni- Palakkad railway station-12 km Ananganmala-	Bird watching , Trekking	Trekking-Rs. 300/- per person	DFO, Palakkad- 0491 2555156 Range Forest Officer, Olavakode 8745602072
35	5. Ananganmala	Panoramic view	PKD railway station-45 km Meenvallam- PKDrailway station-34 KM Nearest airport- Nedumbassey, Kozhikode & Coimbatore	Trekking	Rs. 20/- per adult Rs. 10/- per child	DFO, Palakkad- 0491 2555156 Range Forest Officer, Ottappalam- 8745602087
36	6. Meenvallam	Water falls		Trekking, Visit to wet evergreen forests	Rs. 20/- per adult Rs. 10/- per child	DFO, Palakkad- 0491 2555156 Range Forest Officer, Olavakode 8745602072

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
IX. MALAPPURAM DISTRICT						
37	1. Nedumkayam	Oldest teak plantation, Dawsons grave yard,Rain forests, Indigenous tribal groups	Nilambur railway station-13 KM	IB,Vanasree eco shop, Interpretation centre	Entry fee- Rs 35/- per indian adult, Rs 20/- per indian child , Rs 80/- per foreigner Parking fee Bike- Rs.40/-, Auto-Rs.40/-, Light motor vehicle- Rs.80/-, Heavy vehicle- Rs.315/- Still camera- Rs.40/- Video camera-Rs.240/-	Dy. Range Forest Officer, Nedumkayam- 8547602263 Range Office- 04931 270296 DFO, Nilambur (South)- 04931 220392
38	2. Kozhippara	Natural waterfalls, Cool climate, Undulating mountain rows view	Kakkadampoyil - 2km Nilambur-25 km Malappuram-60 km Kozhikode-90 km	Ticket cum information centre, Toilet facility, Pathway, Handrail.	Entry fee- Rs 20/- per indian adult, Rs 10/- per indian child Rs 40/- per foreigner, Rs 20/- per foreign child Still camera- Rs.25/- Smart phone- Rs.10/- Movie camera- Rs.150/-	Range officer, Edavanna- 8547602168
39	3. Adyanpara	Fully operated by DTPC, Malappuram				

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
X. KOZHIKODE DISTRICT						
40	1. Kakkayam (Malabar Sanctuary)	Dam site and water falls	Kozhikode- 56 KM	Waterfalls, Trekking in hillocks, Guides.	Rs 40/- per adult, Rs 20/- per student, Rs. 60/- per foreigner	DFO, KKD-9447979073 Thamarassery Range Officer 8547602830
41	2. Peruvanna-muzhy	Crocodile rescue center, Indian institute of spices research, Agricultural farm	Kozhikode - 45 km	Trekking, Guides	Rs 30/- for adult, Rs 15/- per student, Rs. 50/- per foreigner	DFO, KKD-9447979073 8547602838
42	3.Thusharagiri	Water falls	Kozhikode - 54 km	Trekking, Nature education, Guides	Rs 30/- for adult, Rs 15/- per student, Rs. 50/- per foreigner	DFO, KKD -9447979073 8547602818
43	4.Kakkavayal	Bio-diversity garden	Kozhikode - 41 km	Guides	Rs 30/- for adult, Rs 15/- per student, Rs. 50/- per foreigner	DFO, KKD-9447979073 8547602792
44	5. Janakikkad	Low elevation ever green forest	Kozhikode - 50 km	Trekking, Guides	Rs 30/- for adult, Rs 15/- per student, Rs. 50/- per foreigner	DFO, KKD-9447979073 8547602773

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
XI. WAYANAD DISTRICT						
45	1. Tholpetty	Wildlife sanctuary	Sultan bathery-65 KM Kozhikode railway station-129 KM	Trekking, Vehicle safari, Eco shop, Dormitory, Serambi	Entry – Rs 145/- per Indian adult, Rs 60/- per Indian student. Rs 350/- per foreigner. Light motor vehicle- Rs.80/ Still camera- Rs.40/- Video camera- Rs.240/- Interpretation centre– Rs. 10/- Cerambi rent (1st floor) - Rs.2945/- per day, Rs. 1695/- (Ground floor) Dormitory rent- Rs.230/- head per bed	Asst.wildlife warden, Tholpetty range- 04935 250853
46	2. Muthanga	Wildlife sanctuary	Sultan bathery-14 KM Kozhikode railway station-110 KM	Vehicle safari, Eco shop, Dormitory, Serambi, Eco hut, Honey processing unit,	Entry - Rs 145/- per Indian adult, Rs 60/- per Indian student. Rs 350/- per foreigner. Light motor vehicle- Rs.80/ Still camera- Rs.40/- Video camera- Rs.240/- Interpretation centre– Rs. 10/- Cerambi rent (1st floor) - Rs.2945/- per day, Rs. 1695/- (Ground floor) Dormitory rent- Rs.230/- per head per bed	Asst.wildlife warden, Muthanga range- 04936 271010, 271015

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

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

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

Sl. No.	Name of Destination	Importance	How to reach	Facilities available	Entrance fee/Service charges	Contact
58	2. Aralam Wildlife Sanctuary	Bio diversity hot spot, Malabar pied hornbill, Diurnal primates and nocturnal species, Meenmutti waterfalls	Iritty town- 20 Km Thalassery railway station-70 Km Kozhikode airport-150 KM	IB & Dormitory	Entry - Rs .115/- per Indian adult, Rs. 40/- per Indian student Child (13 to 18 yrs) Rs.10/- per Indian student / child (below 13 yrs) Rs. 360/- per foreigner. Vehicle- Rs.110/- Still camera- Rs.40/- Movie camera_ Rs.240/-, Dormitory rent- Rs.160/- per head ,Rs.50/- per student, IB rent- Rs.900/- per day	Aralam Wildlife Division 0490 2493160 Aralam Wildlife Range- 0490 2413160
59	3. Kanhirakolly (Azhakapuri Water falls)	Waterfalls of 20 to 25m height	Kannur Rl.way station-75 KM Karipoor Airport-152 KM	Safety barricade, Resting place	Entry fee- Rs 20/- per Indian adult, Rs 10/- per Indian student. Rs 200/- per foreigner. Camera- Rs.40/-	8547602628
XIII. KASARGOD DISTRICT						
60	1. Ranipuram	Scebic beauty of grass land and trek path	Kanhangad-45 km	DTPC Cottage, toilet	Entry fee- Rs 30/- per Indian adult, Rs 15/- per Indian student. Rs 100/- per foreigner	8547602600, 601, 605

INCOME FROM ECO-TOURISM ACTIVITIES

- A. **TERRITORIAL DIVISIONS:** An amount of **1113.98 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 2019-20						
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	526786	1738	28908	557432	21192475
			Mankayam	26375	44	1812	28231	1071415
		Paruthippally	Kallar	124744	1106	17476	143326	5099405
2	Thenmala	Aryankavu	Palaruvi	211801	115	28490	240406	13117415
3	Achencovil	Achencovil	Manalar-Kumbhavuruty	32477	0	3777	36254	969715
4	Punalur	Anchal	Kudukkathupara	21364	16	1413	22793	593730
5	Ranni	Goodrical	Gavi	39130	501	0	39631	2407920
6	Konni	Konni	Eco Tourism	168223	82	26230	194535	5110845
		Adavi	Adavi	69178	240	7423	76841	10309500
		Naduvathumoozhy	Gavi Bus Tour	1019	0	93	1112	2099500
			Tree Top Huts	428	0	96	524	604000
7	Kothamangalam	Kaliyar	Thommankuthu	68530	219	6393	75142	2281770
8	Kottayam	Kumily	Chellarcovil	6421	321	2048	8790	235870
		Ayyappancoil	Kalvari mount	209729	0	2762	212491	5407855

Sl. No.	Division	Name of Range	Location of Eco-tourism Centre	No. of Visitors				Income Generated (in rupees)
				Native	Foreigners	Students	Total	
9	Mankulam	Mankulam	Kainagiri(Viripara)	27951	3178	4737	35866	1381650
			Nakshathrakuthu	4821	86	150	5057	249200
10	Munnar	Devikulam	Chokkamudi	532	316	0	848	402400
11	Marayur Sandal	Marayur	Rajiv Gandhi National Park	5613	66	15597	21276	56790
		Kanthalloor	Anakottapara Park	38969	1054	20568	60591	400230
12	Vazhachal	Charpa	Athirappally	920306	11396	219995	1151697	6277702
			Vazhachal	112910	416	18912	132238	741281
13	Malayattoor	Kodanad	Paniyeliporu VSS	113956	157	15657	129770	3927000
		Kalady	Mulamkuzhy VSS	55145	55	6425	61625	1907375
		Thundathil	Bhoothathankettu	37119	15	7909	45043	1081735
14	Mannarkkad	Agali	Singapara (Siruvani)	709	0	95	804	191085
			Thodukappu	4914	0	2308	7222	122158
15	Nilambur South	Karuli	Nedungayam	13918	7	1660	15585	807605
16	Nilambur North	Edavanna	Conolly Plot, Aruvacode	80290	27	13310	93627	3807000
			Kozhipara	31478	17	1629	33124	1342480
		Nilambur	Chandakkunnu	13058	0	3633	16691	674355
17	Palakkad	Ottappalam Olavakkode	Ananganmala	27436	0	0	27436	667385
			Meenvallam Waterfalls	44057	0	0	44057	1069602
			Dhoni Waterfalls	13156	0	0	13156	1578196

Sl. No.	Division	Name of Range	Location of Eco-tourism Centre	No. of Visitors				Income Generated (in rupees)
				Native	Foreigners	Students	Total	
18	Nemmara	Kollengode	Minnampara	27984	14	238	28236	2072790
19	Kozhikode	Thamarassery	Thusharagiri	190754	1310	10292	202356	5942470
			Kakkad	9074	4	405	9483	298595
			Kakkavayal	13981	0	2047	16028	450135
		Peruvannamuzhi	Peruvannamuzhi	19545	0	2631	22176	625815
		Kuttiady	Janakikkad	23921	3	1408	25332	738870
20	Wayanad North	Begur	Brahmagiri Trekking	944	78	223	1245	340050
			Chirapullu	281	10	42	333	149327
		Mananthavady	Muneeswarakunnu	3040	0	188	3228	136162
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	36568	20	1490	38078	1154175
			Alakapuri & Soojippara	26057	15	1424	27496	523640
23	Kasargod	Kanhangad	Ranipuram	57932	36	2498	60466	1779030
TOTAL				3462624	22662	482392	3967678	111397703

B. WILDLIFE DIVISIONS: An amount of 3020.11 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 2019-20

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	86637	3831	18012	108480	5982390
2	Neyyar WLS			34361	1084	8992	44437	7645790
3	Peppara WLS			8240	56	0	8296	85200
4	Shenduruney WLS	Kollam	Shenduruney WL	27032	65	444	27541	5893450
5	Thattekad Bird Sanctuary	Ernakulam	Idukki WLS	54884	742	4502	60128	2940920
6	Idukki WLS	Idukki		17983	11	0	17994	2889679
7	Malabar Sanctuary	Kozhikode	Kozhikode	56949	38	1821	58808	1792855
8	Wayanad WLS	Wayanad	Tholpetty EDC	37028	645	5984	43657	5138800
			Muthanga EDC	51490	1619	9079	62188	8693120
9	Parambikulam Tiger Reserve	Palakkad	Parambikkulam	87825	628	4913	93366	55302634
10	Periyar East Tiger Reserve	Idukki	Thekkady in PTR	467918	35206	13704	516828	113312792
			Gavi Safari	11958	984	1058	14000	1373465
			Vallakkadavu PTR	13053	982	39	14074	1951420

Sl. No.	Name of Wildlife Sanctuary/National Park	District	Division	No. of Visitors				Income generated (in rupees)
				Native	Foreigners	Students	Total	
11	Silent Valley NP	Palakkad	Mukkali	17744	69	903	18716	3260443
12	Eravikulam NP	Idukki	Munnar wildlife	417776	10617	90272	518665	71797946
13	Chinnar WLS			14976	1107	0	16083	10730609
14	Pampadum shola NP			2862	227	0	3089	2988286
15	Chimmony WLS	Thrissur	Peechi	488	0	0	488	123800
16	Aralam WLS	Kannur	Aralam	3412	13	776	4201	107270
TOTAL				1412616	57924	160499	1631039	302010869

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 ST Service Co-op Society, Reg. No. T618
2		Paruthippally	Njaraneeli ST Service Co-op Society, Madathara P.O.
3		Palode	Njaraneeli ST Service Co-op Society, Madathara P.O.
4	Thenmala	Aryankavu	Aryankavu Girijan Co-op. Society, Aryankavu
5	Punalur	Anchal	Vanchiyodu SC/ST Society Ltd.No.Q1032, Venkolla.P.O, Madathara

Sl. No.	Division	Range	Name of society
6	Ranni	Goodrical	Seethathodu- Chittar Tribal Co-op. Society.
7	Mankulam	Mankulam, Anakulam	Adimali Girijan Service Society
8	Munnar	Adimali, Neriya Mangalam	Adimali Girijan Service Co-op. Society No. 3887
9	Marayoor	Marayoor, Kanthalloor	Devikulam Scheduled Tribe Service Co-operative Society
10	Kottayam	Nagarampara	Vazhathope ST Service Co-op. Society, Idukki
11	Kothamangalam	Thodupuzha, Mullaringad, Kaliyar	Tribal Co-op. Society, Vazhathoppe
12	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

Sl. No.	Division	Range	Name of society
22	Wayanad North	Begur	Thirunelly Tribal Co-op. Society, Appapara, Thirunelly. P.O.
23	Kozhikkode	Kuttiadi, Thamarasserry	Vilangad ST Service Co-op. Society
24	Kannur	Thalipparamba, Kottiyoor, Kannavam	Nedumpoyil ST Service Co-op. Society, Nedumpoyil
25	Kasaragod	Kanjangad	Panathady Scheduled Tribes Services Co-operative Society Ltd.
26	Periyar East	Thekkady	Periyar Honey Processing Unit

TIMBER DEPOTS

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



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

Sl. No.	Circle	Sales Division	Depots	
2	High Range Circle, Kottayam	Kottayam	12	Parampuzha
			13	Vettikkadu
			14	Thalakkode
			15	Kothamangalam
3	Central Circle, Thrissur	Perumbavoor	16	Veetoor
			17	Varapuzha
			18	Mudikkal
			19	Chalakkudy
			20	Chettikulam
4	Eastern Circle, Palakkad	Palakkad	21	Aruvakkode
			22	Nedumkayam
			23	Walayar
5	Northern Circle, Kannur	Kozhikode	24	Chaliyam
			25	Kuppadi
			26	Baveli
			27	Kannothu
			28	Parappa

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	IHRD	Infrastructure and Human Resource Development
19	WL	Wildlife
20	RIDF	Rural Infrastructure Development Fund
21	CSS	Centralized Sponsored Scheme
22	EAP	Externally Aided Project
23	APO	Annual Plan of Operation
24	CAMPA	Compensatory Afforestation Fund Management and Planning Authority
25	SC	Southern Circle
26	HRC	High Range Circle

ABBREVIATIONS

27	CC	Central Circle
28	EC	Eastern Circle
29	NC	Northern Circle
30	WLS	Wildlife Sanctuaries
31	RRT	Rapid Response Team
32	KFRI	Kerala Forest Research Institute
33	NTCA	National Tiger Conservation Authority
34	MoEF&CC	Ministry of Environment, Forest and Climate Change
35	IUCN	International Union of Conservation of Nature
36	WP	Working Plan
37	VSS	Vana Samrakshna Samithies
38	EDC	Eco-Development Committies
39	SF	Social Forestry
40	FDA	Forest Development Agency
41	SFPF	Special Forest Protection Force
42	MFP	Major Forest Produce
43	FTC	Forest Training Centre
44	FIC	Forest Information Centre
45	NSC	Nature Study Centre
46	BS	Bird 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

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