



Government of Maharashtra
FOREST DEPARTMENT



ANNUAL ADMINISTRATION REPORT 2019-20



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ANNUAL
ADMINISTRATION
REPORT 2019-20

MAP SHOWING FOREST COVER IN MAHARASHTRA STATE



Special Efforts & Guidance

Dr. N. Rambabu
Principal Chief Conservator
of Forests
(Head of Forest Force),
M.S. Nagpur.

Shri. M. K. Rao
Principal Chief Conservator
of Forests
(Information, Technology &
Policy), M.S. Nagpur.

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**ANNUAL
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REPORT 2019-20**

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GENERAL REVIEW

ANNUAL ADMINISTRATION REPORT FOR THE YEAR 2019-2020

The Salient features of the Annual Administration Report for the year 2019-20 is presented as under.

1. From the Table No.1, it is revealed that forest area at the close of the year was 61951.76 Sq. km. i.e. 20.13 % of the geographical area of the Maharashtra state as against the stipulated 33 % expected forest area coverage. Out of this, forest area measuring 55858.64 Sq. km. and 1440.32 Sq. km. were under the management of Forest Department and Revenue Department respectively. The forest area managed by Forest Development Corporation of Maharashtra Limited from 1974 to the end of the year was 3462.26 Sq. km. The extent of the Private Forest brought under the possession of Forest Department since enactment of the act from 1975 up to the end of the year 2019-20 was 1190.54 Sq. Km. Circle-wise and District-wise forest areas are given in Table No. 3 & 4 respectively. Similarly, District-wise forest cover and mangrove cover are given in Table No. 5 & 6 respectively. Forest area of 42471.81 Sq. km. was under scientific management prescribed under sanctioned working plan and its percentage to the forest area of the Forest Department (57049.18 Sq Km) was about 74.45 %.
2. Number of offence cases registered during the year decreased by 1.68 % as compared to the previous year report (Table-8). During the year under report, the area burnt in fires was 19572 ha. (Average size per case is 3.71Ha.) as compared to 33694 ha. in the last year. (Average Size 4.73 Ha.) (Table-10)
3. During the year under report forest area artificially regenerated and afforested was 102987.26 ha. (Table-18). "Vanamahotsava" was celebrated throughout the state for which 630.82 lakh seedlings were supplied for planting to public bodies, institutions in celebrations of Vanmahotsava, as compared to last year where 449.63 lakh seedlings were supplied (Table-21).

4. In the annual yield programme, 72.32 thousand cu.m. of timber and 78.27 thousand cu.m. of firewood were produced by harvesting of forest area (Table -24). The value of outturn of minor forest produce accounted for Rs. 44.08 crores (Table-28). Total 160 coupes worked by Forest Labour's Co-operative Society (FLCS) and 77 coupes worked by Department and no coupe was worked by other agency. An area of 173.84 Sq. Km. was harvested during the year under report. Large number of labourers were engaged on various Forestry development operations such as plantation, harvesting, afforestation etc. The total labour employment generated including other activities was broadly assessed and it is 39210.76 thousand mandays and the total amount of wages paid was Rs.1507.14 crores during the year 2019-20 (Table-30). The daily wage rates were paid as per the rates fixed by the Wage Board.
5. Total length of roads in charge of Forest Department was 14424.72 Km. (Provisional) during the year under report (Table-32). The information regarding forests buildings, vehicles and machinery is given in the report (Table- 33, 37).
6. The Forest Revenue received was Rs. 277.27 crores. The total expenditure was Rs. 3909.97 crores including the expenditure on special development plan activities like Western Ghat Development, I.S.R.V.P. etc (Table-38). The amount of Revenue Outstanding for recovery at the close of the year was Rs. 64.35 crores. (Table-45)
7. Information regarding organizational set up and training imparted to the staff and organized setup is given in Table No. 47 & 48 respectively. Information regarding position of staff and Range, Round, Beat is given in Table No. 49 and 51.
8. An investment of Rs. 2033.65 crores was made through the various development programmes implemented under forestry & related sectors (Table 52).
9. The value of forest produce given away free of cost or at the concessional rate (including Nistar) to the public and Adiwasis by the Forest Department was worth Rs. 196.86 lakh (Table-53). An amount of Rs 66.82 crores was invested on various development activities under Tribal Sub-Plan (Table- 54).
10. An expenditure of Rs. 58.91 crores was incurred on forestry works under Maharashtra Rural Employment Guarantee Scheme (Table-59).

CHAPTER – I



CONSTITUTION OF STATE FORESTS

CHAPTER – I

Constitution Of State Forests

1.1.1 The forest area under the administrative charge of Forest Department and Revenue Department were 55858.64 Sq. Km. and 1440.32 Sq. Km. respectively at the close of the year 2019-20 and formed 18.15 % and 0.47 % respectively of the total geographical area of Maharashtra State, (307713 Sq. Kms) . This shows that the forest in Maharashtra State was the second largest land use sector after the Agriculture.

The forest area transferred to Forest Development Corporation of Maharashtra Limited at the end of the year

2019-20 was 3462.26 Sq. Km. constituting about 1.13 % of the geographical area of the state.

According to the provision of Maharashtra Private Forest (Acquisition) Act, 1975, private forests, to which certain sections of Indian Forest Act, 1927 were applied, attained the status of Reserved Forest. At the close of the year 2019-20, the area of private forest brought under possession of Forest Department was 1190.54 Sq. Km. which constituted about 0.39 % of total geographical area of the state.

TABLE - 1

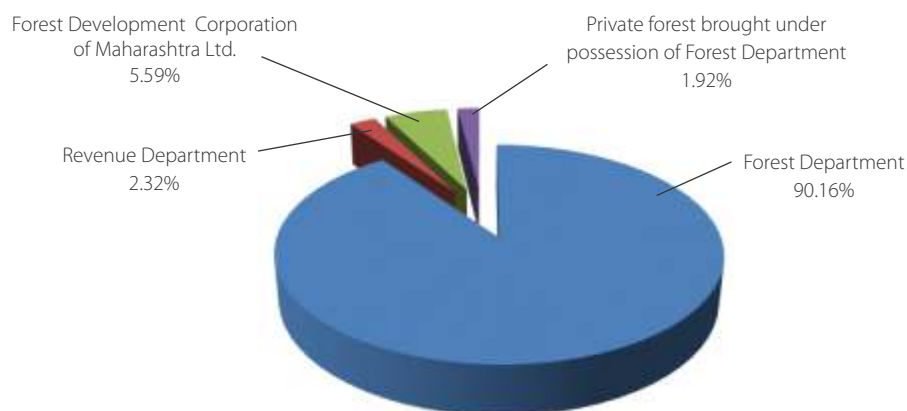
THE DISTRIBUTION OF THE TOTAL FOREST AREA UNDER THE OWNERSHIP OF FOREST DEPARTMENT IS AS UNDER.

(Area in Sq.Km.)

Sr. No.	Name of Agency	Total Forest Area	Percentage to Geographical area
1	Forest Department	55858.64	18.15%
2	Revenue Department	1440.32	0.47%
3	Forest Development Corporation of Maharashtra Ltd.	3462.26	1.13%
4	Private forest brought under possession of Forest Department	1190.54	0.39%
	Total	61951.76	20.13%

Source :- APCCF (Conservation), M.S. Nagpur

GRAPHICAL REPRESENTATION OF AGENCY-WISE DISTRIBUTION OF FOREST AREA



1.1.2 The legal classification of the above forest areas in-charge of the Forest and Revenue Department is given in Table-2 below.

TABLE - 2

CLASSIFICATION OF FOREST AREA ACCORDING TO MANAGEMENT AND LEGAL STATUS

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	Controlling Agency	Area according to Legal status				
		Reserved Forests	Protected Forests	Unclassed Forests	Total	% Distribution
1	Forest Department					
	(a) Area in charge of Forest Deptt	46765.21	6267.51	2825.92	55858.64	90.16%
	(b) Private forest brought under possession of Forest Department	1190.54	0.00	0.00	1190.54	1.92%
2	Forest Development Corporation of Maharashtra Ltd.	3332.34	127.55	2.37	3462.26	5.59%
3	Revenue Department	767.04	37.82	635.46	1440.32	2.32%
	Total	52055.13	6432.88	3463.75	61951.76	100.00%

Source:-APCCF (Conservation), M.S.Nagpur

1.1.3 The circle-wise and district-wise distribution of the forest area incharge of Forest Department and Revenue Department according to legal status at the close of the year 2019-20 is given in Table-3 and Table -4.

TABLE-3

CIRCLE-WISE DISTRIBUTION OF FOREST AREA FOR THE YEAR 2019-20

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	Circle	Controlling Agency	Reserved Forest	Protected Forest	Unclassed Forest	Total
1	Thane	Forest (Terri)	3337.02	1118.19	252.02	4707.23
		Wildlife	558.41	1.44	75.44	635.29
		FDCM	443.56	0.03	0.00	443.59
		Revenue	5.28	36.49	7.86	49.63
		Total	4344.27	1156.15	335.32	5835.74
2	Nashik	Forest (Terri)	3949.82	227.05	27.80	4204.67
		Wildlife	341.44	13.97	0.00	355.41
		FDCM	421.69	0.00	0.00	421.69
		Revenue	352.97	0.00	5.16	358.13
		Total	5065.92	241.02	32.96	5339.90
3	Dhule	Forest (Terri)	5726.02	57.06	218.75	6001.83
		Wildlife	325.10	0.00	0.00	325.10
		FDCM	0.00	0.00	0.00	0.00
		Revenue	97.00	0.00	4.02	101.02
		Total	6148.12	57.06	222.77	6427.95
4	Pune	Forest (Terri)	2020.15	0.03	151.73	2171.91
		Wildlife	119.58	0.00	22.31	141.89
		FDCM	10.53	0.00	0.00	10.53
		Revenue	280.27	0.00	0.00	280.27
		Total	2430.53	0.03	174.04	2604.60
5	Kolhapur	Forest (Terri)	2527.32	346.64	699.00	3572.96
		Wildlife	800.36	53.82	52.31	906.49
		FDCM	2.59	10.99	1.98	15.56
		Revenue	31.52	1.33	1.32	34.17
		Total	3361.79	412.78	754.61	4529.18
6	Aurangabad	Forest (Terri)	2436.68	105.86	226.74	2769.28
		Wildlife	208.63	0.00	2.83	211.46
		FDCM	173.63	0.00	0.00	173.63
		Revenue	0.00	0.00	0.00	0.00
		Total	2818.94	105.86	229.57	3154.37

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	Circle	Controlling Agency	Reserved Forest	Protected Forest	Unclassed Forest	Total
7	Amravati	Forest (Terri)	2449.55	15.81	2.13	2467.49
		Wildlife	2605.99	0.00	11.67	2617.66
		FDCM	0.00	0.00	0.00	0.00
		Revenue	0.00	0.00	0.26	0.26
		Total	5055.54	15.81	14.06	5085.41
8	Yavatmal	Forest (Terri)	2488.09	6.31	113.34	2607.75
		Wildlife	591.06	0.00	0.00	591.06
		FDCM	273.71	0.00	0.00	273.71
		Revenue	0.00	0.00	9.01	9.01
		Total	3352.86	6.31	122.35	3481.53
9	Nagpur	Forest (Terri)	2404.84	1891.16	609.64	4905.64
		Wildlife	1428.20	181.47	23.66	1633.33
		FDCM	581.13	84.47	0.39	665.99
		Revenue	0.00	0.00	550.94	550.94
		Total	4414.17	2157.10	1184.63	7755.90
10	Chandrapur	Forest (Terri)	1916.28	743.95	107.59	2767.82
		Wildlife	1176.11	131.50	13.14	1320.75
		FDCM	743.41	2.26	0.00	745.67
		Revenue	0.00	0.00	5.11	5.11
		Total	3835.80	877.71	125.84	4839.35
11	Gadchiroli	Forest (Terri)	10311.23	1367.97	215.81	11895.01
		Wildlife	233.88	5.29	0.00	239.17
		FDCM	682.09	29.80	0.00	711.89
		Revenue	0.00	0.00	51.78	51.78
		Total	11227.19	1403.05	267.59	12897.84
Grand Total of Maharashtra		Forest (Terri)	39566.99	5880.02	2624.56	48071.57
		Wildlife	8388.76	387.49	201.36	8977.61
		FDCM	3332.34	127.55	2.37	3462.26
		Revenue	767.04	37.82	635.46	1440.32
		Total	52055.13	6432.88	3463.75	61951.76

Source : APCCF (Conservation),M.S.Nagpur

TABLE-4

DISTRICT-WISE DISTRIBUTION OF FOREST AREA FOR 2019-20

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	District	Controlling Agency	Reserved Forest	Protected Forest	Unclassified Forest	Total
1	Ahmednagar	Forest (Terri)	1167.97	9.98	23.74	1201.69
		Wildlife	340.89	13.97	0.00	354.86
		FDCM	0.00	0.00	0.00	0.00
		Revenue	339.83	0.00	5.16	344.99
		Total	1848.69	23.95	28.90	1901.54
2	Akola	Forest (Terri)	374.21	8.75	0.03	382.99
		Wildlife	34.01	0.00	1.3	35.31
		FDCM	0.00	0.00	0.00	0.00
		Revenue	0.00	0.00	0.00	0.00
		Total	407.63	8.75	1.92	418.30
3	Amravati	Forest (Terri)	1275.65	0.02	0.66	1276.33
		Wildlife	2207.35	0.00	4.29	2211.64
		FDCM	0.00	0.00	0.00	0.00
		Revenue	0.00	0.00	0.26	0.26
		Total	3483.00	0.02	5.21	3488.23
4	Aurangabad	Forest (Terri)	723.18	41.96	16.21	781.35
		Wildlife	155.18	0.00	0.00	155.18
		FDCM	0.00	0.00	0.00	0.00
		Revenue	0.00	0.00	0.00	0.00
		Total	878.36	41.96	16.21	936.53
5	Beed	Forest (Terri)	215.13	20.20	16.14	251.47
		Wildlife	27.53	0.00	2.83	30.36
		FDCM	0.00	0.00	0.00	0.00
		Revenue	0.00	0.00	0.00	0.00
		Total	242.66	20.20	18.97	281.83
6	Bhandara	Forest (Terri)	577.71	264.07	45.24	887.02
		Wildlife	212.45	13.04	4.14	229.63
		FDCM	98.17	0.30	0.00	98.47
		Revenue	0.00	0.00	151.33	151.33
		Total	888.33	277.41	200.71	1366.44

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	District	Controlling Agency	Reserved Forest	Protected Forest	Unclassified Forest	Total
7	Buldhana	Forest (Terri)	799.69	7.04	1.44	808.17
		Wildlife	364.63	0.00	6.08	370.71
		FDCM	0.00	0.00	0.00	0.00
		Revenue	0.00	0.00	0.00	0.00
		Total	1164.32	7.04	7.52	1178.88
8	Chandrapur	Forest (Terri)	1916.28	743.95	107.59	2767.82
		Wildlife	1176.11	131.50	13.14	1320.75
		FDCM	743.41	2.26	0.00	745.67
		Revenue	0.00	0.00	5.11	5.11
		Total	3835.80	877.71	125.84	4839.35
9	Dhule	Forest (Terri)	1901.86	8.50	7.27	1917.63
		Wildlife	85.97	0.00	0.00	85.97
		FDCM	0.00	0.00	0.00	0.00
		Revenue	63.58	0.00	0.00	63.58
		Total	2051.41	8.50	7.27	2067.18
10	Gadchiroli	Forest (Terri)	10311.23	1367.97	215.81	11895.01
		Wildlife	233.88	5.29	0.00	239.17
		FDCM	682.09	29.80	0.00	711.89
		Revenue	0.00	0.00	51.78	51.78
		Total	11227.19	1403.05	267.59	12897.84
11	Gondia	Forest (Terri)	748.99	712.71	271.41	1733.11
		Wildlife	471.46	4.33	0.00	475.79
		FDCM	326.99	0.00	0.11	327.11
		Revenue	0.00	0.00	179.48	179.48
		Total	1547.44	717.04	451.01	2715.48
12	Hingoli	Forest (Terri)	261.75	3.88	20.79	286.42
		Wildlife	4.39	0.00	0.00	4.39
		FDCM	0.00	0.00	0.00	0.00
		Revenue	0.00	0.00	0.00	0.00
		Total	266.14	3.88	20.79	290.81

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	District	Controlling Agency	Reserved Forest	Protected Forest	Unclassified Forest	Total
13	Jalgaon	Forest (Terri)	1697.36	2.44	45.36	1745.16
		Wildlife	239.13	0.00	0.00	239.13
		FDCM	0.00	0.00	0.00	0.00
		Revenue	28.01	0.00	4.02	32.03
		Total	1964.50	2.44	49.38	2016.32
14	Jalna	Forest (Terri)	94.57	5.03	2.83	102.43
		Wildlife	0	0	0	0.00
		FDCM	0	0	0	0.00
		Revenue	0	0	0	0.00
		Total	94.57	5.03	2.83	102.43
15	Kolhapur	Forest (Terri)	780.02	307.79	247.92	1335.73
		Wildlife	308.24	53.21	28.86	390.31
		FDCM	2.59	10.99	1.98	15.56
		Revenue	0.08	1.33	1.32	2.73
		Total	1090.93	373.32	280.08	1744.33
16	Latur	Forest (Terri)	5.59	7.26	33.67	46.52
		Wildlife	0	0	0	0.00
		FDCM	0	0	0	0.00
		Revenue	0	0	0	0.00
		Total	5.59	7.26	33.67	46.52
17	Mumbai City	Forest (Terri)	2.77	0	0	2.77
		Wildlife	158.18	0.15	31.19	189.52
		FDCM	0	0	0	0.00
		Revenue	0	0.45	0	0.45
		Total	160.95	0.60	31.19	192.74
18	Mumbai Sub-urban	Forest (Terri)	0	0	39.48	39.48
		Wildlife	0	0	0	0.00
		FDCM	0	0	0	0.00
		Revenue	0	1.39	0	1.39
		Total	0.00	1.39	39.48	40.87

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	District	Controlling Agency	Reserved Forest	Protected Forest	Unclassified Forest	Total
19	Nagpur	Forest (Terri)	620.447	597.104	141.05	1358.60
		Wildlife	658	157.08	7.7	822.78
		FDCM	155.974	84.17	0.276	240.42
		Revenue	0	0	152.25	152.25
		Total	1434.42	838.35	301.28	2574.05
20	Nanded	Forest (Terri)	1019.6	20.51	86.29	1126.40
		Wildlife	0	0	0	0.00
		FDCM	173.63	0	0	173.63
		Revenue	0	0	0	0.00
		Total	1193.23	20.51	86.29	1300.03
21	Nandurbar	Forest (Terri)	2126.8	46.12	166.12	2339.04
		Wildlife	0	0	0	0.00
		FDCM	0	0	0	0.00
		Revenue	5.41	0	0	5.41
		Total	2132.21	46.12	166.12	2344.45
22	Nashik	Forest (Terri)	2782.406	217.07	4.06	3003.54
		Wildlife	0.551	0	0	0.55
		FDCM	421.69	0	0	421.69
		Revenue	13.14	0	0	13.14
		Total	3217.79	217.07	4.06	3438.92
23	Osmanabad	Forest (Terri)	32.54	7.02	33.67	73.23
		Wildlife	21.53	0	0	21.53
		FDCM	0	0	0	0.00
		Revenue	0	0	0	0.00
		Total	54.07	7.02	33.67	94.76
24	Palghar	Forest (Terri)	1091.26	507.27	35.69	1634.22
		Wildlife	111.91	0.95	0	112.86
		FDCM	410.27	0.02	0	410.29
		Revenue	0	0	0	0.00
		Total	1613.44	508.24	35.69	2157.37

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	District	Controlling Agency	Reserved Forest	Protected Forest	Unclassified Forest	Total
25	Parbhani	Forest (Terri)	84.32	0	17.14	101.46
		Wildlife	0	0	0	0.00
		FDCM	0	0	0	0.00
		Revenue	0	0	0	0.00
		Total	84.32	0.00	17.14	101.46
26	Pune	Forest (Terri)	1818.08	0.03	74.24	1892.35
		Wildlife	127.81	0.34	0	128.15
		FDCM	10.53	0	0	10.53
		Revenue	252.40	0	0	252.40
		Total	2208.82	0.37	74.24	2283.43
27	Raigad	Forest (Terri)	1384.7	151.06	155.84	1691.60
		Wildlife	20.59	0	44.25	64.84
		FDCM	0	0	0	0.00
		Revenue	5.28	30.25	0	35.53
		Total	1410.57	181.31	200.09	1791.97
28	Ratnagiri	Forest (Terri)	64.32	0.03	27.06	91.41
		Wildlife	3.57	0	1.05	4.62
		FDCM	0	0	0	0.00
		Revenue	9.12	0	0	9.12
		Total	77.01	0.03	28.11	105.15
29	Sangali	Forest (Terri)	339.07	0.1	77.28	416.45
		Wildlife	110.33	0	6.96	117.29
		FDCM	0	0	0	0.00
		Revenue	7.11	0	0	7.11
		Total	456.51	0.10	84.24	540.85
30	Satara	Forest (Terri)	1125.58	38.72	9.06	1173.36
		Wildlife	378.22	0.61	15.44	394.27
		FDCM	0	0	0	0.00
		Revenue	15.21	0	0	15.21
		Total	1519.01	39.33	24.50	1582.84

(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	District	Controlling Agency	Reserved Forest	Protected Forest	Unclassified Forest	Total
31	Sindhudurg	Forest(Terri)	218.33	0	337.68	556.01
		Wildlife	0	0	0	0.00
		FDCM	0	0	0	0.00
		Revenue	0	0	0	0.00
		Total	218.33	0.00	337.68	556.01
32	Solapur	Forest(Terri)	223.54	0	77.49	301.03
		Wildlife	36.66	0	22.31	58.97
		FDCM	0	0	0	0.00
		Revenue	27.87	0	0	27.87
		Total	288.07	0.00	99.80	387.87
33	Thane	Forest(Terri)	836.256	459.86	21.01	1317.13
		Wildlife	222.84	0	0	222.84
		FDCM	33.29	0.01	0	33.30
		Revenue	0	4.4	7.86	12.26
		Total	1092.39	464.27	28.87	1585.53
34	Wardha	Forest (Terri)	457.698	317.28	151.941	926.92
		Wildlife	86.29	7.02	11.82	105.13
		FDCM	0	0	0	0.00
		Revenue	0	0	67.88	67.88
		Total	543.99	324.30	231.64	1099.93
35	Washim	Forest (Terri)	356.012	0	37.20	393.21
		Wildlife	43.03	0	0	43.03
		FDCM	0	0	0	0.00
		Revenue	0	0	0	0.00
		Total	399.04	0.00	37.20	436.24



(Forest area in Sq.Km. as on 31.3.2020)

Sr. No.	District	Controlling Agency	Reserved Forest	Protected Forest	Unclassed Forest	Total
35	Yavatmal	Forest (Terri)	2132.078	6.311	76.144	2214.53
		Wildlife	548.03	0	0	548.03
		FDCM	273.71	0	0	273.71
		Revenue	0	0	9.01	9.01
		Total	2953.82	6.31	85.15	3045.28
Grand Total of Maharashtra		Forest(Terri)	39566.99	5880.02	2624.56	48071.57
		Wildlife	8388.76	387.49	201.36	8977.61
		FDCM	3332.34	127.55	2.37	3462.26
		Revenue	767.04	37.82	635.46	1440.32
		Total	52055.13	6432.88	3463.75	61951.76

Source : APCCF (Conservation), M.S.Nagpur

1.1.4 India State of Forest Report is published after every two years by Forest Survey of India, (MoEF & CC, Gol), Dehradun and it provides comprehensive information about the forest cover, forest vegetation density, tree cover, progress of plantation outside the designated forests etc. for India as well as all Indian States & all UT's. The country's forest cover includes all patches of land

with a tree canopy density of more than 10% and more than 1 ha in area, irrespective of land use, ownership and species of trees.

India State of Forest Report 2019 is published on 31st Dec 2019 by the FSI, Dehradun. District-wise forest cover in Maharashtra is shown in Table-5

TABLE-5

DISTRICT-WISE FOREST COVER

Area in Sq.Km.

Sr. No.	District	Geographical Area	2019 Assessment				Change wrt 2017 assessment	Scrub #
			Very Dense***	Moderately Dense **	Open Forest*	Total		
1	2	3	4	5	6	7	8	9
1	Ahmadnagar	17048	0	68.82	198.07	266.89	-3.11	557.39
2	Akola	5673	11	108.44	220.93	340.37	1.37	16.00
3	Amravati	12210	618.89	1461.53	1087.35	3167.77	-0.23	112.76
4	Aurangabad	10131	20	106.26	441.67	567.93	-2.07	171.29
5	Beed	10693	0	13	151.03	164.03	-7.08	362.79
6	Bhandara	4087	170.86	563.13	264.93	998.92	-10.97	18.57
7	Buldhana	9661	25	143.95	422.65	591.6	-3.40	162.00
8	Chandrapur	11443	1323.03	1559.44	1171.99	4054.46	32.54	44.23
9	Dhule	7195	0	68.57	232.7	301.27	-6.73	111.37

Area in Sq.Km.

Sr. No.	District	Geograph- ical Area	2019 Assessment				Change wrt 2017 assessment	Scrub #
			Very Dense***	Moderately Dense **	Open Forest*	Total		
1	2	3	4	5	6	7	8	9
10	Gadchiroli	14412	4699.29	3307.73	1909.92	9916.94	-87.06	24.58
11	Gondia	5234	888.61	732.23	317.75	1938.59	15.59	32.25
12	Hingoli	4827	0	9	101.01	110.01	-0.99	49.23
13	Jalgaon	11765	51	347.94	747.9	1146.84	2.84	94.51
14	Jalna	7694	0	9.65	26.83	36.48	-1.52	51.21
15	Kolhapur	7685	64	1020.44	701.88	1786.32	-9.68	102.83
16	Latur	7157	0	0.04	12.98	13.02	1.02	19.67
17	Mumbai City	157	0	0	3	3	0	0.00
18	Mumbai Sub Urban	446	0	67	72.86	139.86	-0.14	0.43
19	Nagpur	9892	401.06	902.56	696.76	2000.38	-18.62	73.68
20	Nanded	10528	58	442.91	435.85	936.76	2.76	123.08
21	Nandurbar	5955	0	404.15	791.84	1195.99	3.99	30.00
22	Nashik	15530	0	346.34	730.21	1076.55	8.55	337.66
23	Osmanabad	7569	0	2.08	47.58	49.66	2.66	47.43
24	Parbhani	6214	0	3.57	36.86	40.43	-7.57	47.78
25	Pune	15643	0	760.93	949.93	1710.86	2.86	508.03
26	Raigarh	7152	13	1250.34	1676.12	2939.46	22.46	77.60
27	Ratnagiri	8208	33	1892.01	2287.89	4212.9	46.9	3.36
28	Sangli	8572	0	95	55.13	150.13	0.13	171.03
29	Satara	10480	117	569.68	591.69	1278.37	2.37	365.70
30	Sindhudurg	5207	88.82	1391.73	1347.43	2827.98	138.98	32.27
31	Solapur	14895	0	5.5	44.17	49.67	1.67	60.72
32	Thane	9558	0	1300.11	1697.98	2998.09	35.09	261.07
33	Wardha	6309	9.97	410.03	441.95	861.95	-1.05	55.93
34	Washim	4901	5	101.89	189.87	296.76	-2.24	31.65
35	Yavatmal	13582	123	1106.35	1377.97	2607.32	1.32	98.39
	Total	307713	8720.53	20572.35	21484.68	50777.56	95.56	4256.49

Source :- India State of Forest Report- 2019

*** Very Dense Forest having density above 70%

** Moderately Dense Forest having density 40% - 70%

* Open Forest having density 10% - 40%

Scrub - Degraded forest lands with canopy density less than 10%

TABLE-6**DISTRICT-WISE MANGROVE COVER***Area in Sq.Km.*

Sr. No.	District	Geographical Area	MANGROVE COVER 2019				
			Very Dense Mangrove	Moderately Dense Mangrove	Open Mangrove	Total	Change w.r.t. 2017 Assessment
1	2	3	4	5	6	7	8
1	Mumbai City	157	0	0	2	2	0
2	Mumbai Suburb	446	0	27	37.3	64.3	0.3
3	Raigarh	7152	0	12	108.97	120.97	14.97
4	Ratnagiri	8208	0	15	15.15	30.15	0.15
5	Sindhudurg	5207	0	5	7.19	12.19	0.19
6	Thane	9558	0	29	61.66	90.66	0.66
	Total	30728	0	88	232.27	320.27	16.27

Source :- India State of Forest Report- 2019

1.1.5 The forest areas were transferred from the Forest Department to Forest Development Corporation of Maharashtra Ltd. with the objective of converting them into valuable stands yielding increased returns. The forest area so far transferred to Corporation till the end of 2019-20 from various circles of the state aggregating to 3462.26 Sq. Km. was as below.

TABLE-7**FOREST AREA TRANSFERRED TO FOREST DEVELOPMENT CORPORATION OF MAHARASHTRA LTD.[From 1974 -75 to 2019-20]***Area in Sq.Km.*

Sr. No.	Circle	Reserved Forests	Protected Forests	Unclassed Forests	Grand Total
1	Thane	443.56	0.03	0.00	443.59
2	Nashik	421.69	0.00	0.00	421.69
3	Dhule	0.00	0.00	0.00	0.00
4	Pune	10.53	0.00	0.00	10.53
5	Kolhapur	2.59	10.99	1.98	15.56
6	Aurangabad	173.63	0.00	0.00	173.63
7	Amravati	0.00	0.00	0.00	0.00
8	Yavatmal	273.71	0.00	0.00	273.71
9	Nagpur	581.13	84.47	0.39	665.99
10	Chandrapur	743.41	2.26	0.00	745.67
11	Gadchiroli	682.09	29.80	0.00	711.89
	Grand Total	3332.34	127.55	2.37	3462.26

Source :APCCF(Conservation), M.S.Nagpur

1.1.6 Forest Settlement

During the year under report, an area of 3984.92 Sq.Kms was taken in hand for settlement at the commencement of the year and an extent of area 467.94 Sq.Km was taken in hand during year. No expenditure was incurred on work of forest settlement.

1.1.7 Demarcation

The total length of boundary at the close of the year was 127563 Kms. The lengths of forest boundaries artificially demarcated and existing boundaries repaired during the year under report were 10 Kms and 11408 Kms respectively. The expenditure to the extent of Rs. 134 lakh on new works and Rs 1105.62 lakh on repairs was incurred during the year 2019-20.

1.1.8 Forest Surveys

No survey works of forest area was carried out by Survey of India organization during year under report. However, last survey work was carried out by Survey of India organization during 1977-78.

CHAPTER – II



MANAGEMENT OF STATE FORESTS

CHAPTER – II

Management Of State Forests

2.1.1 An area of 57049.18 Sq.km., was managed by Forest Department. Out of this area, 42471.81 Sq.km. (Provisional) was brought under sanctioned Working Plans up to 2019-20.

2.1.2 Preparation and control of Regular working plan

The position of sanctioned Working Plan during the year 2019-20 is summarized below.

Circle	Working Plan in Operation		Remarks
	Division	Period of W.P.	
Thane	1. Alibag	2016-2017/2025-2026	--
	2. Roha	2017-2018/2026-2027	
	3. Shahapur	2017-2018/2026-2027	
	4. Dahanu	2010-2011/2019-2020	
Nashik	5. East Nashik	2012-2013/2021-2022	--
	6. West Nashik	2019-2020/2028-2029	
	7. Ahmadnagar/ Sangamner	2011-2012/2020-2021	
	8. Malegaon	2015-2016/2024-2025	
Dhule	9. Yawal	2019-2020/2028-2029	--
	10. Dhule	2016-2017/2025-2026	
	11. Nandurbar	2015-2016/2024-2025	
	12. Mewasi	2019-2020/2028-2029	
Pune	13. Pune	2012-2013/2021-2022	-
	14. Bhore	2015-2016/2024-2025	
	15. Solapur	2015-2016/2024-2025	
Kolhapur	16. Ratnagiri (Chiplun)	2013-2014/2022-2023	-
	17. Satara	2010-2011/2019-2020	
	18. Sangli	2012-2013/2021-2022	
	19. Sawantwadi	2015-2016/2024-2025	

Circle	Working Plan in Operation		Remarks
	Division	Period of W.P.	
Aurangabad	20. Aurangabad	2014-2015/2023-2024	–
	21. Parbhani div.	2018-2019/2027-2028	
	22. Hingoli sub div.	2017-2018/2026-2027	
	23. Beed	2017-2018/2026-2027	
	24. Nanded	2011-2012/2020-2021	
	25. Osmanabad	2019-2020/2028-2029	
Amravati	26. Amravati	2014-2015/2023-2024	--
	27. East Melghat*	2016-2017/2025-2026	
	28. West Melghat*	2019-2020/2028-2029	
	29. Buldhana	2019-2020/2028-2029	
Yavatmal	30. Yavatmal	2012-2013/2021-2022	--
	31. Pandharkawda	2013-2014/2022-2023	
	32. Pusa	2019-2020/2028-2029	
Nagpur	33. Nagpur	2015-2016/2024-2025	--
	34. Wardha	2017-2018/2026-2027	
	35. Gondia	2013-2014/2022-2023	
	36. Bhandara	2019-2020/2028-2029	
Chandrapur	37. Chandrapur	2014-2015/2023-2024	--
	38. Central Chanda	2016-2017/2025-2026	
	39. Brahmapuri	2019-2020/2028-2029	
Gadchiroli	40. Allapalli	2017-2018/2026-2027	–
	41. Wadsa	2012-2013/2021-2022	
	42. Sironcha	2019-2020/2028-2029	
	43. Gadchiroli	2019-2020/2028-2029	
	44. Bhamragad	2019-2020/2028-2029	

Source- APCCF (WP) Pune & CCF (WP) Nagpur

*Before Reorganization



2.1.3 Grazing Settlement

No grazing settlement report for the forest area was prepared during the year. All possible efforts were done to prevent the illicit grazing in the forest area.

2.1.4 Working of Coupes

Circle	Current coupes due for working	Arrear coupes due for working	Current coupes worked by FLCS*	Arrear coupes worked by FLCS*	Total coupes worked by FLCS*	Coupes worked by Deptt.	Coupes worked by other Agencies	Total coupes worked	Coupes remained unworked
1	2	3	4	5	6	7	8	9	10
1. Thane	346	0	0	0	0	0	0	0	346
2. Amravati	23	19	13	9	22	9	0	31	11
3. Yavatmal	51	0	46	0	46	5	0	51	0
4. Nagpur	104	0	56	0	56	3	0	59	45
5. C.pur	83	0	2	0	2	13	0	15	68
6. Gadchiroli	200	0	34	0	34	47	0	81	119
Total	807	19	151	9	160	77	0	237	589

2.2.1 Protection of Forest

Undesirable human interference such as unauthorized felling and removal of minor forest produce, unauthorized grazing, setting of fires to forests, encroachment on forest land etc. cause loss to forest wealth. Various protective measures were adopted to protect this valuable forest wealth.

The effect of various measures taken by the Forest Department in connection with the forest protection and conservation of existing forest showed good result. The

mobile squads were functioning effectively under the supervision of vigilance units created in the past. The department sought the assistance of the police and their contingents were deployed in the concerned areas for protecting forest officials against personal attacks.

2.2.2 A comparative statement of forest offences registered during the year 2019-20 vis-à-vis the previous year 2018-19 is given in Table below.

TABLE - 8

A COMPARATIVE STATEMENT OF OFFENCE CASES

(Forest Offences Recorded)

Year	Injury by fires	Unauthorized felling	Unauthorized grazing	Other (Encroachment & illegal cultivation)	Total
2019-20	5270	14597	1217	6103	27187
2018-19	7122	14074	942	5514	27652



The offence cases registered shows that they have decreased by about 1.68% this year as compared to previous year (2018-19). Except unauthorized grazing, all type of other offences have decreased compared to last year record.

TABLE - 9

2.2.3 CLASSIFICATION OF OFFENCE CASES : YEAR 2019-20

Sr.No	Category of offence cases	Number of Cases			Total
		" A "	" B "	"C"	
		Taken to court of LAW	Dealt with V/s 68 of IFA 1927	Undetected	
1	Injury to forest by fires	45	2922	2303	5270
		[48]	[2854]	[4220]	[7122]
2	Unauthorized felling	289	8769	5539	14597
		[147]	[8743]	[5184]	[14074]
3	Unauthorized grazing	26	862	329	1217
		[6]	[802]	[134]	[942]
4	Other (Encroachment & illegal cultivation etc.)	684	2953	2466	6103
		[336]	[3140]	[2038]	[5514]
5	Total New Cases	1044	15506	10637	27187
		[537]	[15539]	[11576]	[27652]
6	Cases pending from previous year	4968	10963	--	15931
		[6031]	[12723]	[--]	[18754]
7	Grand Total	6012	26469	10637	43118
		[6568]	[28262]	[11576]	[46406]
8	Total disposed cases during the year	1298	15326	--	16624
		[1620]	[17375]	[--]	[18995]
9	Cases pending at the close of the year	4714	11143	–	15857
		[4948]	[10887]	[--]	[15835]

(Figures in the brackets are the corresponding figures of last year)

The position of disposal of offence cases was as follows

Comparative Statement : Disposal of offence Cases

Year	Conviction Cases			Acquittal Cases		
	A	B	Total	A	B	Total
2019-20	774	5818	6592	524	9508	10032
2018-19	1305	8399	9704	315	8976	9291



Out of the cases referred to the Court of Law, convictions were ordered in 774 cases while 524 cases resulted in acquittal and 4714 cases were pending at the close of the year. From the cases decided under section 68 of Indian Forest Act of 1927, 5818 cases resulted in conviction by forest officials, 9508 cases resulted in acquittal and 11,143 cases were pending at the close of the year 2019-20. The number of undetected cases were 10637.

2.2.4 Injury by fires & protection from fire

The number of offence cases was decreased by 26% as compare with last year. The average size of fire was

3.71ha . Out of the area attempted for protection i.e 56972.33 sq.km. and area of 56776.60 sq.km. was protected from fire. This means only 0.34% of failure to area attempted was observed. Area Burned during the year was 195.72 sq.km .Measures like tracing of fire lines, engaging of fire watchers during the fire seasons were taken. The value of damage of standing crops excluding that of grass worked out to Rs.134.58 lakh. An expenditure of Rs.2227.49 lakh was incurred on fire & forest protection programme during the year. The offences in connection with fires classified according to origin of fire were as under. Classification of cause of Forest Fire is given below.

TABLE-10

CAUSES OF FOREST FIRE

Sr.No	Origin of Fire	Number of fires	Area burnt (in Ha.)	Average size of fire (in Ha.)
1	(A) Natural	1724	4460	2.59
2	(B) Unintentional/Accidental due to human beings	803	3213	4.00
3	(C) Deliberately/Intentional/ incendiary due to human being	311	460	1.48
4	(D) Unknown Causes	2432	11439	4.70
Total 2019-20		5270	19572	3.71
2018-19		7122	33694	4.73



2.2.5 Unauthorized felling and removal of Minor Forest Produce

The number of offences pertaining to unauthorized felling decreased by about 6.84% during the year 2019-20 as compared to that of previous year. Details regarding illicit cutting of trees, their losses and recovery etc during the year is given below.

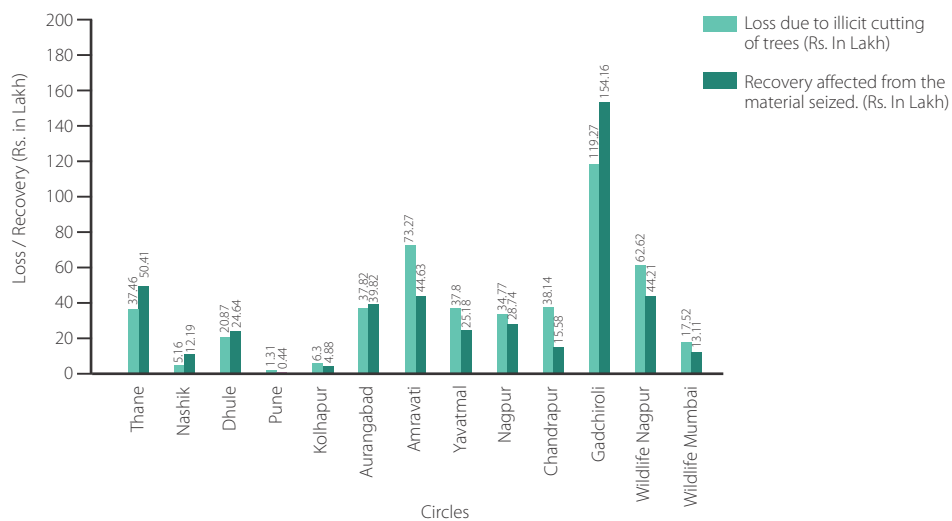
TABLE-11

ILLICIT CUTTING IN STATE OWNED GOVERNMENT FOREST DURING THE YEAR 2019-20

Sr.No	Circle	No. of trees illicitly cut	Loss due to illicit cutting of trees (Rs. In lakh)	Recovery affected from the material seized. (Rs. In lakh)	% of recovery to the loss incurred
1	Thane	8522	37.46	50.41	134.57
2	Nashik	203	5.16	12.19	236.24
3	Dhule	6753	20.87	24.64	118.06
4	Pune	130	1.31	0.44	33.59
5	Kolhapur	1629	6.3	4.88	77.46
6	Aurangabad	3371	37.82	39.82	105.29
7	Amravati	6854	73.27	44.63	60.91
8	Yavatmal	6263	37.8	25.18	66.61
9	Nagpur	6086	34.77	28.74	82.66
10	Chandrapur	5626	38.14	15.58	40.85
11	Gadchiroli	12637	119.27	154.16	129.25
12	Wildlife Nagpur	4831	62.62	44.21	70.60
13	Wildlife Mumbai	1506	17.52	13.11	74.83
Total M.S 2019-20		64411	492.31	457.99	93.03
2018-19		69139	488.78	737.52	150.89

Source-APCCF(Protection)

ILLICIT CUTTING IN STATE OWNED GOVERNMENT FOREST



2.3.1 Unauthorized grazing in Govt. Forest Area.

Measures to prevent injury to forest including grazing in closed coupe of forest areas were rigidly enforced. In some of the areas, the protection of forest was provided by barbed wire fencing and by digging of trench cum mounds. Cattle found grazing unauthorizedly in forest areas were impounded.

An area of 32820.86 sq. km. was closed to grazing during the year 2019-20. There were 1217 cases registered of unauthorized grazing during the year under report.

TABLE-12

GRAZING IN GOVERNMENT FORESTS

Sr.No	Type of grazing	No. of cattle admitted (Nos. in lakh)		Value at full rates (Rs.in lakh)
		Year	No.	
1	Grazing on payment at full rates	2019-20	5.1	7.25
		2018-19	4.98	5.84
2	Grazing at privileged rates	2019-20	0	0
		2018-19	0	0
3	Grazing by right under settlement	2019-20	0.13	0.09
		2018-19	0.67	0.92
4	During pleasure of Govt. or otherwise other than under settlement	2019-20	0.001	0.03
		2018-19	0	0
Total		2019-20	5.231	7.37
		2018-19	5.65	6.76

2.3.2 Creation of Vigilance Organization

The incidence of illicit cutting has decreased while incidence of encroachment on forest lands has increased because of growing demands for forest land, their rising prices and the population pressure, threatening the very existence of forests. The need for establishing special vigilance organisation exclusively to look after the protection of forests and to exercise control on forest offences was keenly felt. A vigilance cell was, therefore, created in the year 1981-82 for monitoring & pursuing follow-up action to control forest offences.



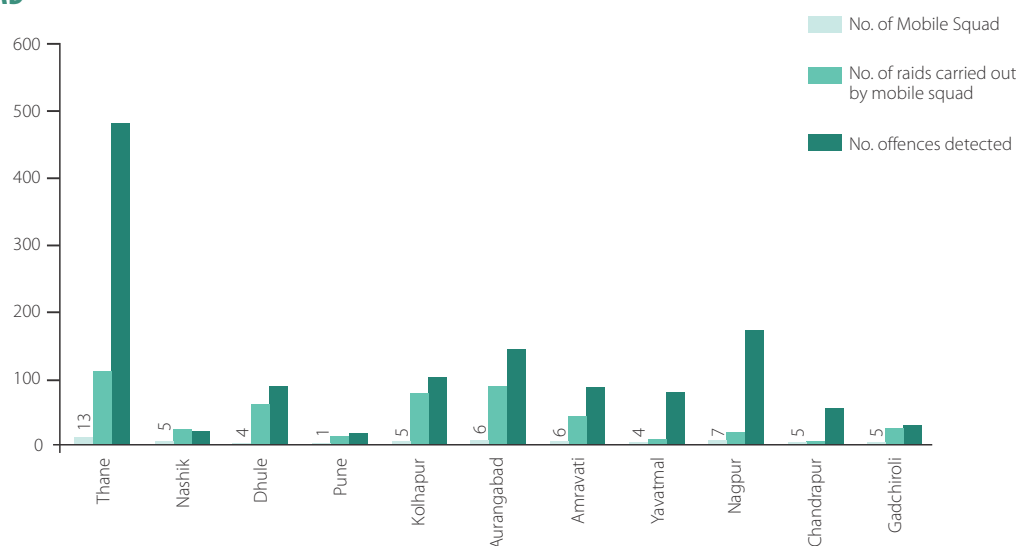
2.3.3 The working of Mobile Squad and Check Nakas is shown in the Table -13

TABLE-13

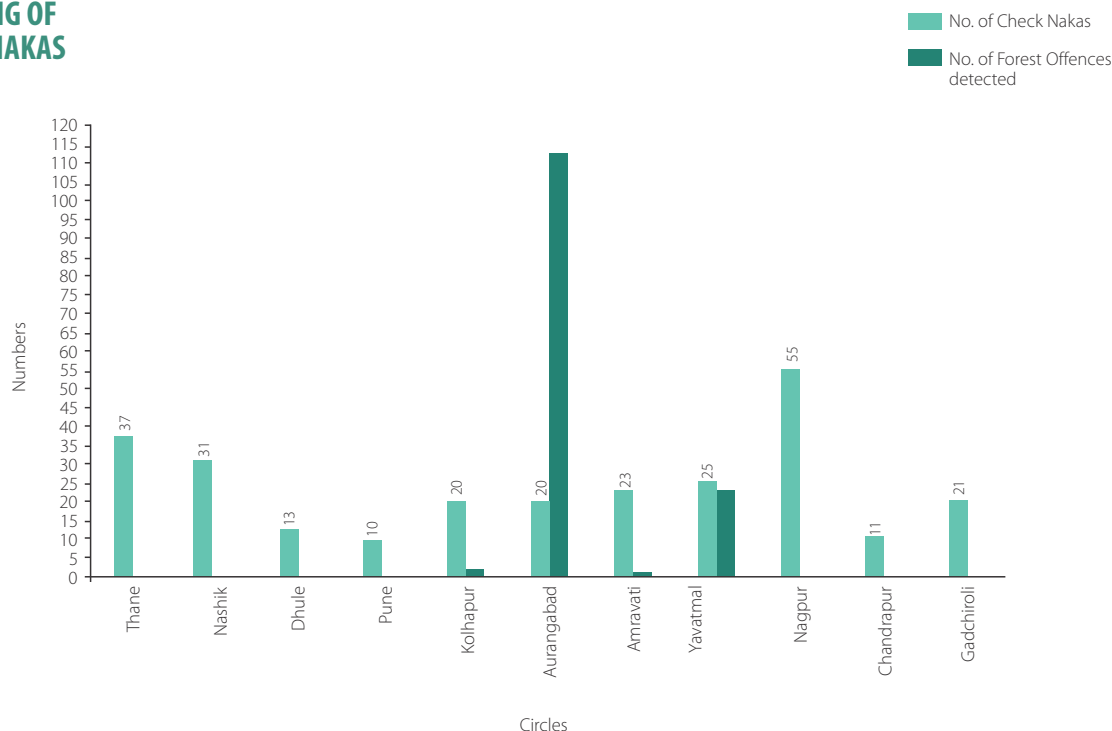
WORKING OF MOBILE SQUADS AND CHECK NAKAS FOR THE YEAR 2019-20

Sr.No	Item	Thane	Nashik	Dhule	Pune	Kolhapur	A'bad	Amravati	Yavatmal	Nagpur	Chandrapur	Gadchiroli	Total
A. Mobile Squads													
1	No. of Mobile squad	13	5	4	1	5	6	6	4	7	5	5	61
2	No. of raids carried out by mobile squad.	111	34	59	14	78	89	39	0	20	5	25	474
3	Exp. Incurred on maintenance (Rs. in lakh)	30	7.4	300	27	68	5.6	70	52	6.1	28	5.9	600.34
4	No. of offences detected	481	28	90	14	102	147	87	75	172	55	30	1281
5	Value of compensation (Royalty) recovered or levied in respect of offences (Rs. in lakh)	33	3.8	5	49	67	3.3	1.7	0	2.8	0	19	184.22
B. Check Nakas													
1	No. of Check Nakas	37	31	13	10	20	20	23	25	55	11	21	266
2	No. of forest offences detected	0	0	0	0	1	112	1	23	0	0	0	137
3	Value of compensation (Royalty) recovered or levied in respect of offences (Rs. in lakh)	0	0	0	0	0	1.8	0	0	0	0	0	1.8

EFFECTIVENESS OF MOBILE SQUAD



WORKING OF CHECK NAKAS



2.3.4 Mobile/PDA procured and distributed under ICT project

Details of Mobile/PDA purchased and distributed under ICT project is given in table 14.

TABLE-14

MOBILE/PDA DISTRIBUTED UNDER ICT PROJECT

Sr.No	Circle	Thane	Sr.No	Circle	Thane
1	Thane	1181	9	Nagpur	1140
2	Nashik	515	10	Chandrapur	357
3	Dhule	615	11	Gadchiroli	869
4	Pune	650	12	WL Nagpur	794
5	Kolhapur	579	13	WL Nashik	125
6	Aurangabad	612	14	WL Mumbai	301
7	Amravati	437	15	Mangrove Cell, Mumbai	136
8	Yavatmal	591		Total	8902

Mobiles /PDAs are being distributed to field officials viz Beat Guard, Foresters and Range Forest Officers etc. for capturing real time data and monitoring forestry activities. Protection related application has been uploaded on PDAs distributed to Beat Gaurd. The application enables registration of offence, taking photograph of seized material and also of offender, if any. This will improve near realtime monitoring of offence cases.

TABLE-15**WIRELESS NETWORK IN FOREST DEPARTMENT**

Sr.No	Circle	Repeater Station	Base Station	Wireless set on Vehicle	Walkie Talkie	Man Pack
1	Thane	5	86	0	198	0
2	Dhule	3	80	0	120	0
3	Nagpur	6	83	0	274	0
4	Chandrapur	1	23	0	33	0
5	Amravati	7	49	0	181	0
6	Yavatmal	6	6	0	5	0
7	Nagpur (WL)	0	117	0	572	0
8	Mumbai (WL)	13	69	37	126	0
9	Melghat (WL)	4	61	29	399	0
Total		45	574	66	1908	0

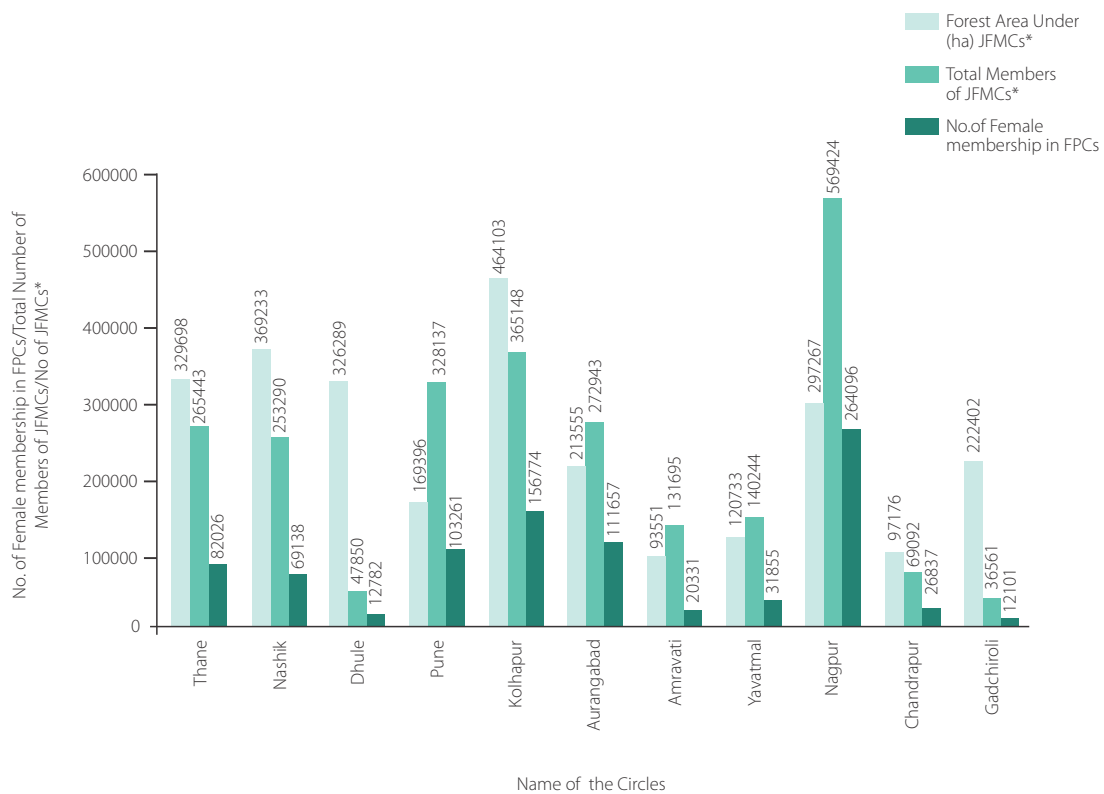
Source-CF Forest Regulation

2.3.5**TABLE-16****INFORMATION REGARDING JOINT FOREST MANAGEMENT YEAR - 2019-20**

Sr.No	Circle	No. of JFMCs*	No of Members of JFMCs*	Forest Area Under (ha) JFMCs*	Total no of JFMCs registered under Society Act 1860	No. of Female membership in FPCs
1	Thane	1601	265443	329697.81	1550	82026
2	Nashik	1297	253290	369233.21	1296	69138
3	Dhule	992	47850	326288.82	1269	12782
4	Pune	1179	328137	169396.00	1032	103261
5	Kolhapur	1741	365148	464102.96	1844	156774
6	Aurangabad	1216	272943	213555.19	1221	111657
7	Amravati	670	131695	93550.97	680	20331
8	Yavatmal	800	140244	120732.52	800	31855
9	Nagpur	1301	569424	297267.00	1269	264096
10	Chandrapur	443	69092	97176.42	485	26837
11	Gadchiroli	844	36561	222402.31	668	12101
Total M.S 2019-20		12084	2479827	2703403.21	12114	890858

Source-APCCF Budget Section* JFMCs- Joint Forest Management Committees

WOMEN REPRESENTATION IN JOINT FOREST MANAGEMENT COMMITTEES





CHAPTER – III



SILVICULTURE

CHAPTER – III

Silviculture

3.1 System of Management

3.1.1 An area of 42471.81 Sq.Km.(provisional) was brought under sanctioned Working Plan up to 2019-20. Out of this area, an area of 18872.08 Sq.Km.was supposed to be covered for the scientific management during the year 2019-20. The broad break-up of the area according to silvicultural system is as below.

TABLE-17

FOREST AREA AS PER SILVICULTURAL SYSTEM

(Area in Sq. Km)

Sr.No	Silviculture System	APCCF WP PUNE	CCF WP NAGPUR	Total Area
1	Afforestation Working Circle	5149.56	161.04	5310.6
2	Anjan Working Circle	16.15	0	16.15
3	Ajantha & Elora Eco Development Working Circle	4.14	0	4.14
4	Bamboo Overlapping Working Circle	27.56	0	27.56
5	Coastal Suru W.C.	4.25	0	4.25
6	Coastal Mangrove W.C.	11.3	0	11.3
7	Encroachment Working Circle	24.324	0	24.324
8	Fodder Working Circle	261.38	0	261.38
9	Fuel wood Management W.C.	2.35	0	2.35
10	Grass & Fodder Management	24.66	0	24.66
11	Improvement Working Circle.	3983.394	323.65	4307.044
12	Kuran Working Circle	7.13	0	7.13
13	Lake Catchments Working Circle	1.9	0	1.9
14	Mahabaleshwar Pachgani EDG sensitive zone management Working Circle	762.08	0	762.08
15	Mangrove Working Circle	92.68	0	92.68
16	Old Teak Plantation Working Circle	20.98	17.68	38.66
17	Plantation Management Working Circle	9.74	0	9.74
18	Protection & reservoir Catchment WC	1759.01	0	1759.01
19	Protection Working Circle	4751.1	0	4751.1

Sr.No	Silviculture System	APCCF WP Pune	CCF WP Nagpur	Total Area
20	Selection cum Improvement Working Circle	747.52	530.88	1278.4
21	Silvi Pasture Working Circle	2.62	0	2.62
22	SMC-cum-Afforestation Working Circle	45.03	0	45.03
23	Soil & Moisture Conservation & Afforestation Working Circle	9.06	0	9.06
24	Teak Plantation	68.5	37.27	105.77
25	Toranmal Working Circle	15.14	0	15.14
	TOTAL	17801.56	1070.52	18872.08

Source-CCF (WP) East Nagpur & APCCF (WP) West Pune.

3.2 General progress of Regeneration of the forest

3.2.1 During the year 2019-20 the forest area artificially regenerated and afforested was 102987.26 ha. and 1050.45 lakhs seedlings were planted under various plan schemes, plantation of teak, bamboo & mixed species were undertaken. The circle-wise details of area regenerated and afforested during the year under report are summarized in Table 18.

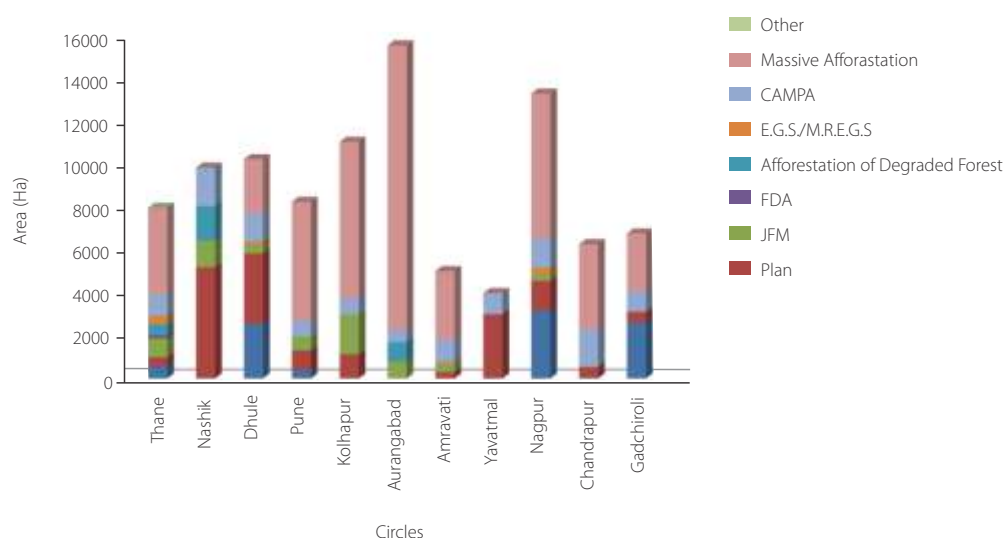
3.2.2 The programme of afforestation & soil conservation was undertaken as plan activity of the Department. Under this programme the barren and denuded areas were tackled by undertaking soil conservation works & by planting species like Neem, Agave, Semal, Khair etc.

TABLE-18

Circle	Area artificially regenerated and afforested									
	Plan and other Activities (Area in Ha.)									
	Non Plan	Plan	JFM	FDA	Afforestation of Degraded-Forest	E.G.S./ M.R.E. G.S	CAMPA	Massive Afforestation	Other	Total area of Plantation
Thane	584.00	414.00	890.00	155.00	507.00	405.00	1017.95	4095.00	1058.00	9125.95
Nashik	0.00	5252.60	1260.00	0.00	1635.00	0.00	1810.06	0.00	3.00	9960.66
Dhule	2599.05	3308.40	431.00	0.00	0.00	134.00	1315.77	2565.00	0.00	10353.22
Pune	375.00	950.00	660.00	0.00	0.00	0.00	746	5610.00	0.00	8341
Kolhapur	23.33	1111.50	1899.00	0.00	0.00	0.00	760	7385.00	126.00	11304.83
Aurangabad	0.00	0.00	786.86	0.00	931.18	0.00	610	13404.56	595.00	16327.6
Amravati	0.00	305.00	375.00	0.00	0.00	105.00	1038.56	3249.00	230.00	5302.56
Yavatmal	0.00	3039.94	0.00	0.00	0.00	0.00	993.48	0.00	0.00	4033.42
Nagpur	3190.32	1422.00	300.00	0.00	0.00	310.00	1385.26	6846.00	365.00	13818.58
Chandrapur	55.00	473.00	55.00	0.00	0.00	0.00	1747.44	4014.00	0.00	6344.44
Gadchiroli	2643.00	500.00	0.00	0.00	0.00	25.00	964	2715.00	1228.00	8075
Total	9469.7	16776.44	6656.86	155.00	3073.18	979.00	12388.52	49883.56	3605.00	102987.26



PLANTATION AREA UNDER VARIOUS SCHEMES (Area in Ha)



3.2.3 The total expenditure on plantation and Afforestation under all activities was Rs. 34378.98 lakh on forest account (i.e. Plan & Non plan) and Rs. 4490.29 lakh on the other account i.e. Employment Guarantee Scheme, CAMPA etc

3.3 The broad breakup of area planted and afforested under various programmes according to species is given in the following Table 19.

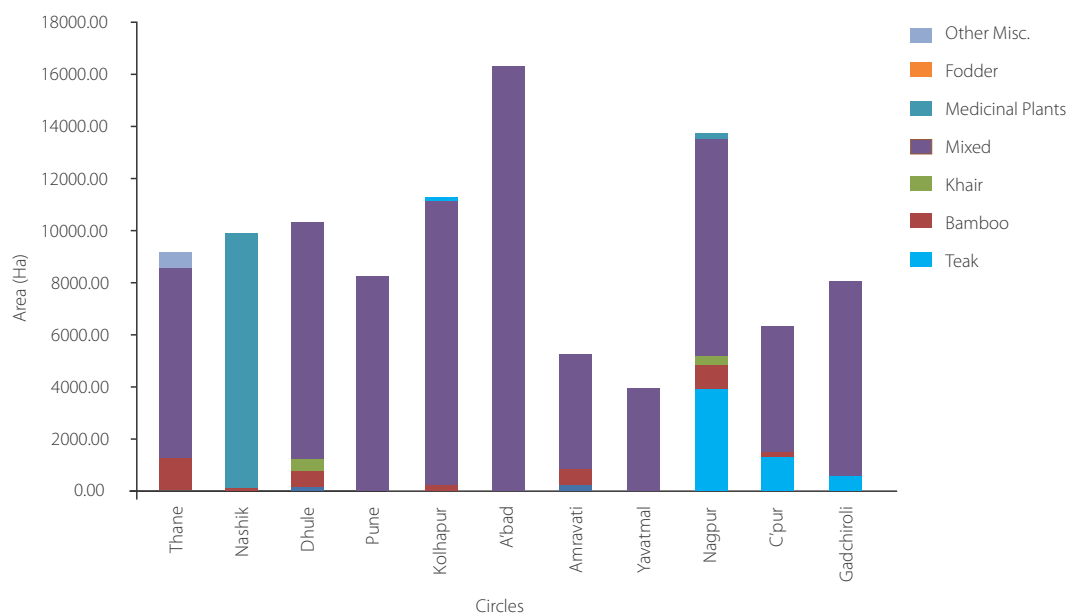
TABLE-19

SPECIES-WISE BREAKUP OF THE AREA PLANTED AND AFFORESTED IN FOREST CIRCLES UNDER ALL ACTIVITIES DURING THE YEAR 2019-20

(Area in Ha)

Circle	Teak	Bamboo	Khair	Mixed	Medicinal Plants	Other Misc.	Total
Thane	35.00	1232.00	0.00	7311.95	0.00	547.00	9125.95
Nashik	0.00	118.00	0.00	0.00	9842.66	0.00	9960.66
Dhule	110.00	723.00	361.00	9159.22	0.00	0.00	10353.22
Pune	0.00	0.00	0.00	8341.00	0.00	0.00	8341.00
Kolhapur	65.00	45.00	0.00	11191.83	0.00	3.00	11304.83
Aurangabad	0.00	0.00	0.00	16327.60	0.00	0.00	16327.60
Amravati	408.00	336.00	0.00	4558.56	0.00	0.00	5302.56
Yavatmal	0.00	0.00	0.00	4033.42	0.00	0.00	4033.42
Nagpur	3907.65	950.33	286.78	8413.70	260.13	0.00	13818.58
Chandrapur	1362.00	68.00	0.00	4914.44	0.00	0.00	6344.44
Gadchiroli	637.27	2.72	0.00	7435.01	0.00	0.00	8075.00
Total	6524.92	3475.05	647.78	81686.73	10102.79	550.00	102987.26

SPECIES-WISE PLANTATION



3.4 Implementation of 20-Point Programme

In 20-Point Programme, the point No.16 is a tree plantation programme, implemented mostly through Forest Department, Forest Development Corporation of Maharashtra Ltd. & Social Forestry. The targets and achievements of area planted by the Forest Department, FDCM and Social Forestry during 2019-20 were as under.

TABLE-20

TARGET AND ACHIEVEMENT UNDER 20-POINT PROGRAMME

Circle	Target	Achievement	
	Physical	Physical	Financial
Thane	9213.95	9125.95	3077.81
Nashik	9960.66	9960.66	4707.50
Dhule	10353.22	10353.22	2125.16
Pune	8346.40	8341.00	3564.59
Kolhapur	11304.83	11304.83	3941.64
Aurangabad	16321.60	16327.60	9567.88
Amravati	5143.00	5302.56	2724.55
Yavatmal	3922.37	4033.42	3003.50
Nagpur	14221.58	13818.58	1720.08
Chandrapur	6364.44	6344.44	3035.00
Gadchiroli	8075.00	8075.00	1367.93
Total	103227.05	102987.26	38835.64
FDCM	8986.59	8986.59	8971.84
Social Forestry	21183.24 (ha)	21032.17 (ha)	52193.49
	16955.55(Km)	17858.35 (Km)	

Source- 20 -point Programme Report

3.5 Vanmahotsava

The "Vanmahotsava" was observed throughout the state during the year under report. The Forest Department supplied seeds & seedlings for planting to public bodies, institutions and private individuals. The forest personnel also took part in the celebration of Vanmahotsava. Importance of tree planting and tree protection was stressed through publicity. The supply of seedlings from various circles is given below.

TABLE-21

Circle	No. of Seedlings Supplied	Circle	No. of Seedlings Supplied
Thane	108920	Yavatmal	2607422
Nashik	1268024	Nagpur	798135
Dhule	410970	Chandrapur	1401927
Pune	721338	Gadchiroli	1108746
Kolhapur	1385169	SFD	52637500
Aurangabad	513508	Total	63081682
Amravati	1200232		

3.6 Forest Tanks

TABLE-22

FOREST TANKS (Under Employment Guarantee Scheme) DURING THE YEAR 2019-20

Name of Circle	No. of Forest Tanks	Total Expenditure incurred (Rs. in lakh)	Mandays Generated (in lakh)
Thane	38	28.16	0.16
Aurangabad	0	63.19	0.31
Amravati	2	1.02	0.005
Nagpur	11	40.47	0.196
Chandrapur	877	11.82	0.03
Gadchiroli	5	2.72	0.01
Total	933	147.38	0.711

Source-PCCF (Budget, Planning and Development)

CHAPTER – IV



HARVESTING OF FOREST PRODUCE

CHAPTER – IV

Harvesting of Forest Produce

4.1 System of Exploitation

4.1.1 The exploitation of forest areas in charge of Forest Department was generally regulated as per prescriptions of sanctioned Working Plan. During the year 2019-20 an area of 173.84 Sq.Kms was harvested during the year under report. The details of forest area worked circle wise during the year 2019-20 are given below.

FOREST AREA HARVESTED

Sr.No	Circle	Area in Ha
1	Amravati	2276.77
2	Yavatmal	2213.27
3	Nagpur	4622.13
4	Chandrapur	1283.55
5	Gadchiroli	4238.76
6	Aurangabad	2749.92
Total 2019-20		17384.40

FOREST AREA HARVESTED

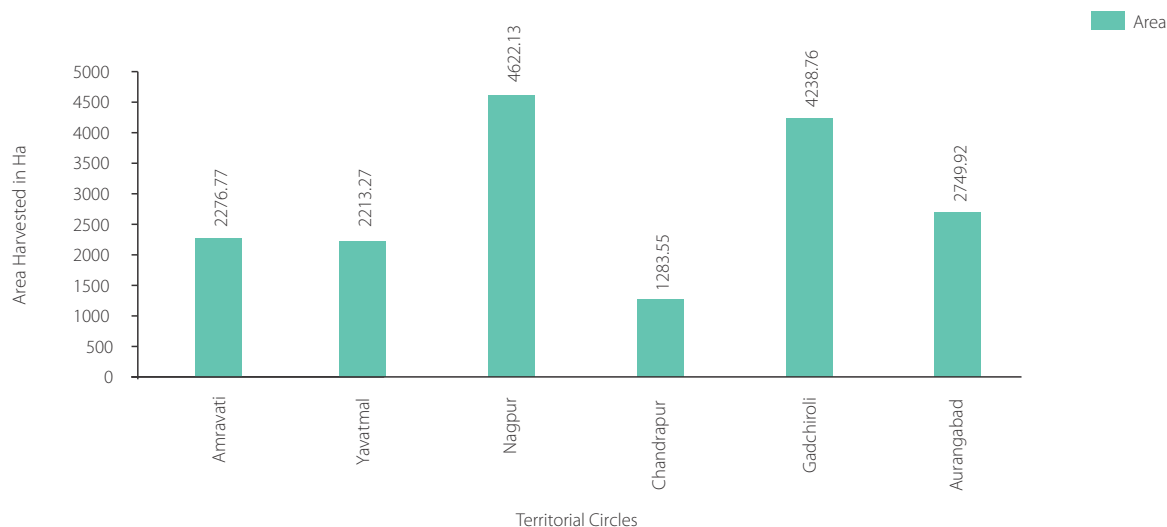
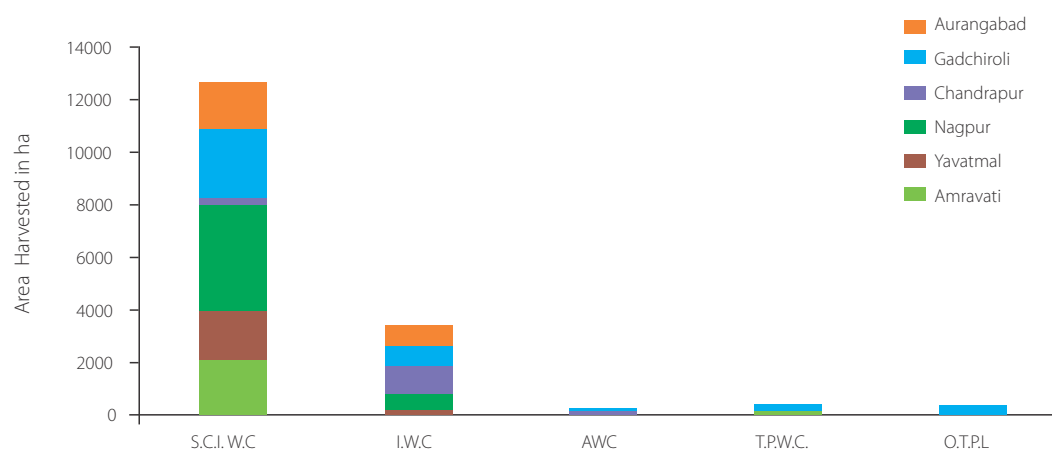


TABLE-23**FOREST AREA HARVESTED ACCORDING TO SILVICULTURAL SYSTEM**

Circle	Silvicultural System (Area in Ha)					
	S.C.I. W.C	I.W.C	AWC	T.P.W.C.	O.T.P.L	TOTAL
Amravati	2134.77	20	0	122.00	0	2276.77
Yavatmal	1966.92	185.75	60.60	0	0	2213.27
Nagpur	4019.02	603.11	0	0	0	4622.13
Chandrapur	138.43	1099.87	45.25	0	0	1283.55
Gadchiroli	2558.18	701.56	38.23	303.25	637.54	4238.76
Aurangabad	1965.00	784.92	0	0	0	2749.92
Total	12782.32	3395.21	144.08	425.25	637.54	17384.40

*Source-CCF(WP)East Nagpur & CCF(WP)WestPune

FOREST AREA HARVESTED ACCORDING TO SILVICULTURAL SYSTEM**4.1.3 Harvesting and disposal of Minor Forest Produce.**

Harvesting and disposal of Minor Forest Produce except bidi leaves was done by leasing of areas containing the particular forest produce by sale of units or on rated passes. Bamboos were extracted by the Department, the paper mills as well as other agencies from areas due for annual harvesting. The extraction and trade in bidi leaves is regulated by the State on the basis of monopoly trade and disposal.

Minor forest produce areas belonging to Tribal Sub Plan were allotted to the Tribal Development Corporation of Maharashtra Ltd. for collection and sale of Gum, Hirda, Moha Flowers & Fruits. The objective of assignment of Tribal Sub Plan areas to Tribal Development Corporation of Maharashtra Ltd. is to give proper wages of collection and to improve living standard of Tribals.

4.2.1 Agency of working of Coupes

The Forest areas were harvested for timber, fuel and other Minor Forest Produce through the agencies of the Forest Department and Forest Labourer's Co-operative Societies. The Rights and Privilege holders and Free Grantees also removed forest produce from forest areas. The agency of forest contractors was eliminated from exploitation of forest areas.

Total 160 coupes were worked by Forest Labourer's Co-operative Societies during the year under report. The circle wise details of coupes worked by Forest Labourer's Co-operative Societies is given in Chapter No. IX of this booklet.

4.2.2 Harvesting agency wise the out-turn of major forest produce and its value is summarized in Table 24.

TABLE-24

AGENCY-WISE OUTTURN OF MAJOR FOREST PRODUCE AND ITS VALUE

Sr. No.	Agency of Exploitation	Timber		Firewood		M.F.P.
		Quantity ('000 Cu.M)	Value (Rs. in lakh)	Quantity ('000' Cu.M)	Value (Rs. in lakh)	(Value Rs. in lakh)
1	Forest Dept.	39.91	16081.02	42.134	937.92	534.74
2	F.L.C.S./ Purchaser	32.32	10628.77	35.25	1252.37	3872.13
3	Free grants / BILT	0	0	0	0	0
4	Rights and Privileges	0.09	21.98	0.88	27.73	1.05
	TOTAL 2019-20	72.32	26731.77	78.27	2218.02	4407.92
	2018-19	61.62	19992.65	78.57	2644.24	5795.30

4.2.3 The Circle-wise outturn of major Forest Produce harvested by all agencies combined during the year 2019-20 is presented in Table 25.

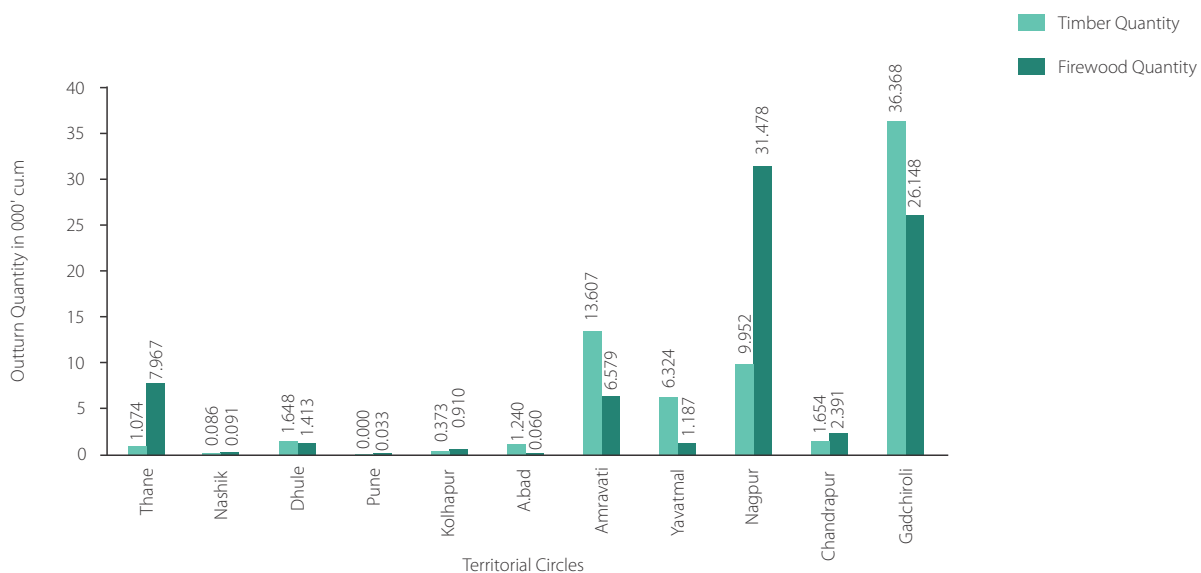
TABLE-25

CIRCLE-WISE OUTTURN OF MAJOR FOREST PRODUCE

Sr. No.	Circle	Timber		Firewood	
		Quantity ('000 Cu.M)	Value (Rs. in lakh)	Quantity ('000' Cu.M)	Value (Rs. in lakh)
1	Thane	1.074	94.23	7.967	126.48
2	Nashik	0.086	19.54	0.091	0.99
3	Dhule	1.648	78.74	1.413	7.65
4	Pune	0.000	0.00	0.033	1.96
5	Kolhapur	0.373	32.02	0.910	11.64
6	Aurangabad	1.240	511.51	0.060	4.11
7	Amravati	13.607	6290.01	6.579	183.26

Sr. No.	Circle	Timber		Firewood	
		Quantity ('000 Cu.M)	Value (Rs. in lakh)	Quantity ('000' Cu.M)	Value (Rs. in lakh)
8	Yavatmal	6.324	1633.52	1.187	17.60
9	Nagpur	9.952	2668.37	31.478	788.45
10	Chandrapur	1.654	624.12	2.391	90.98
11	Gadchiroli	36.368	14779.71	26.148	984.90
	Total- 2019-20	72.326	26731.77	78.257	2218.02

CIRCLE-WISE OUTTURN OF MAJOR FOREST PRODUCE (QUANTITY)



CIRCLE-WISE OUTTURN OF MAJOR FOREST PRODUCE (VALUE)

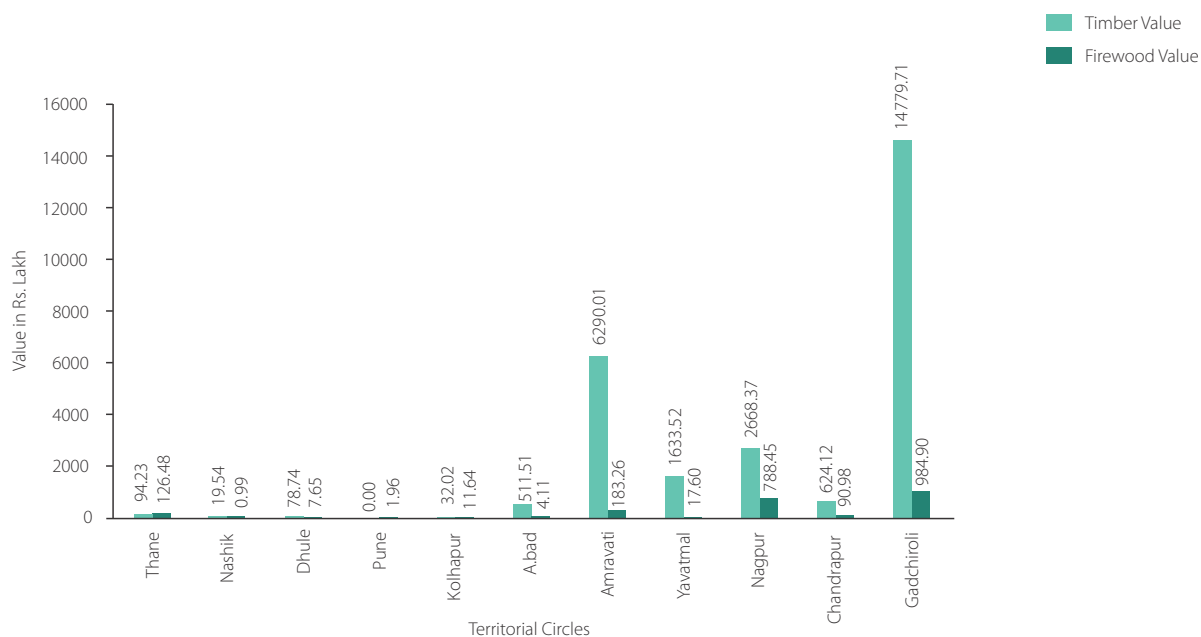


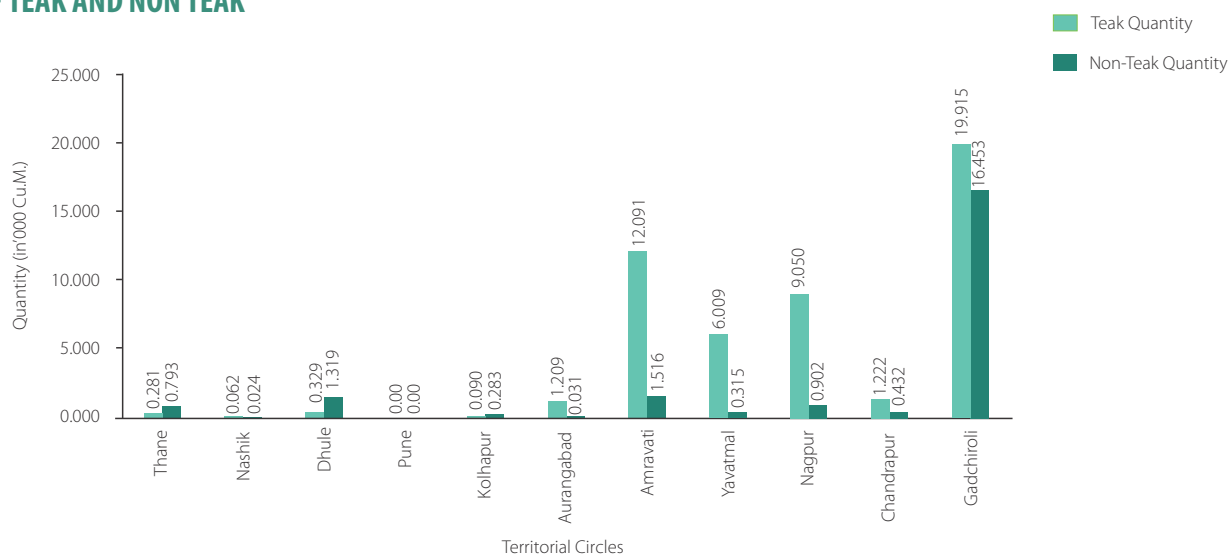
TABLE-26

OUTTURN OF TIMBER (TEAK / NON-TEAK) FOR THE YEAR 2019-20

Sr.No	CIRCLE	Kind	QUANTITY (in'000 Cu.M.)	VALUE Rs.in Lakh
1	Thane	Teak	0.281	40.57
		Non Teak	0.793	53.66
		Total	1.074	94.23
2	Nashik	Teak	0.062	17.68
		Non Teak	0.024	1.86
		Total	0.086	19.54
3	Dhule	Teak	0.329	54.22
		Non Teak	1.319	24.52
		Total	1.648	78.74
4	Pune	Teak	0.000	0.00
		Non Teak	0.000	0.00
		Total	0.000	0.00
5	Kolhapur	Teak	0.090	11.64
		Non Teak	0.283	20.38
		Total	0.373	32.02

Sr.No	CIRCLE	Kind	QUANTITY (in'000 Cu.M.)	VALUE Rs.in Lakh
6	Aurangabad	Teak	1.209	510.67
		Non Teak	0.031	0.84
		Total	1.240	511.51
7	Amravati	Teak	12.091	5998.39
		Non Teak	1.516	291.62
		Total	13.607	6290.01
8	Yavatmal	Teak	6.009	1626.20
		Non Teak	0.315	7.32
		Total	6.324	1633.52
9	Nagpur	Teak	9.050	2583.10
		Non Teak	0.902	85.27
		Total	9.952	2668.37
10	Chandrapur	Teak	1.222	550.19
		Non Teak	0.432	73.93
		Total	1.654	624.12
11	Gadchiroli	Teak	19.915	12661.07
		Non Teak	16.453	2118.64
		Total	36.368	14779.71
Total Maharashtra State		Teak	50.258	24053.73
		Non Teak	22.068	2678.04
		Total	72.326	26731.77

CIRCLE-WISE PRODUCTION OF TEAK AND NON TEAK



CIRCLE-WISE PRODUCTION VALUE OF TEAK AND NON TEAK

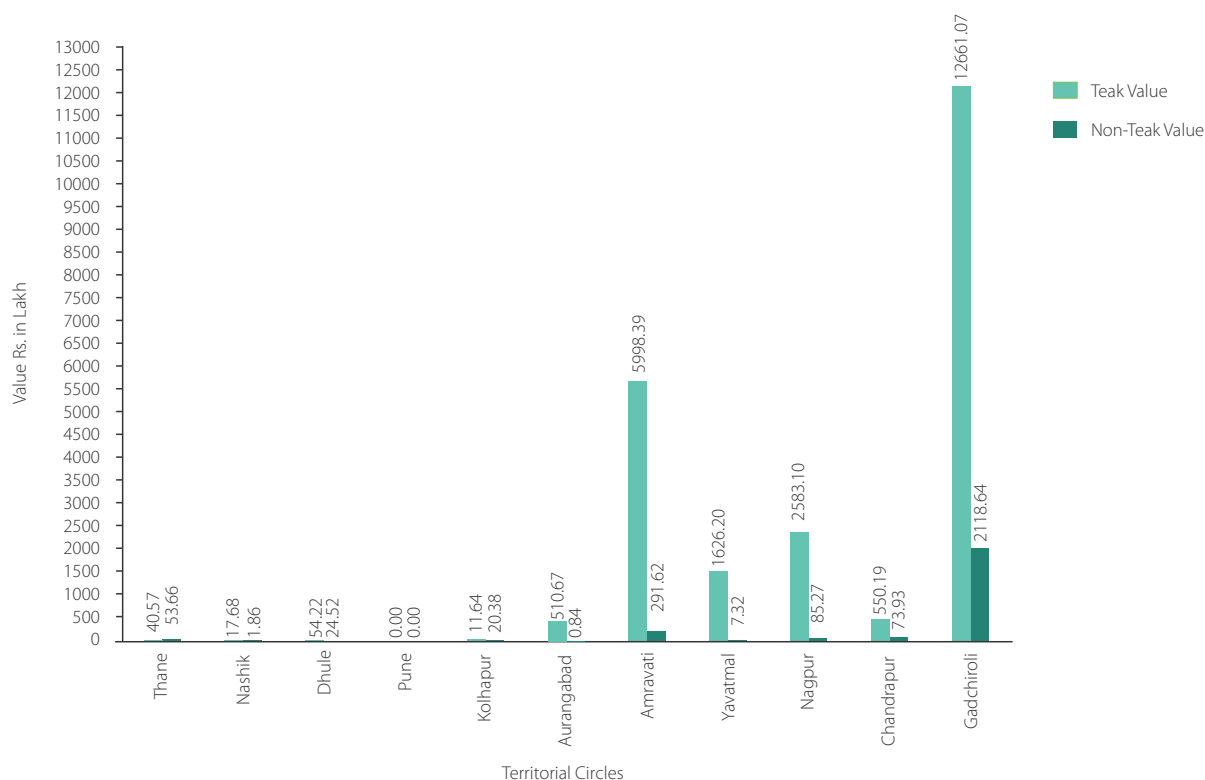
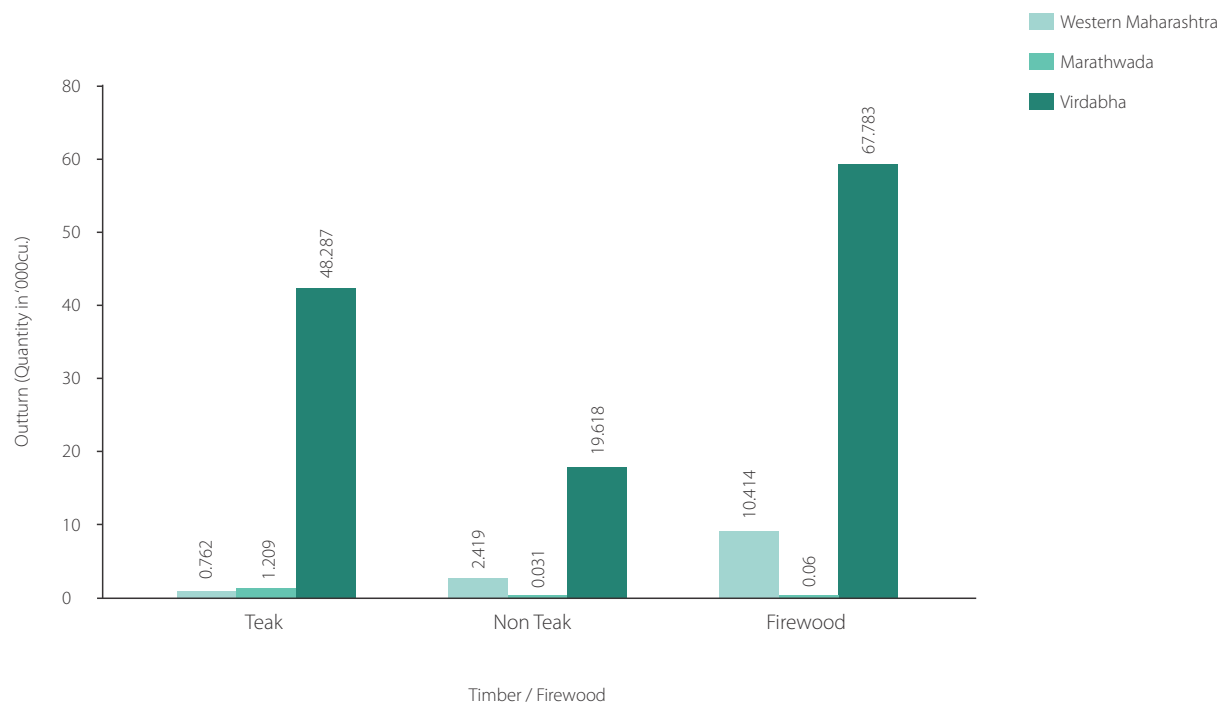


TABLE-27

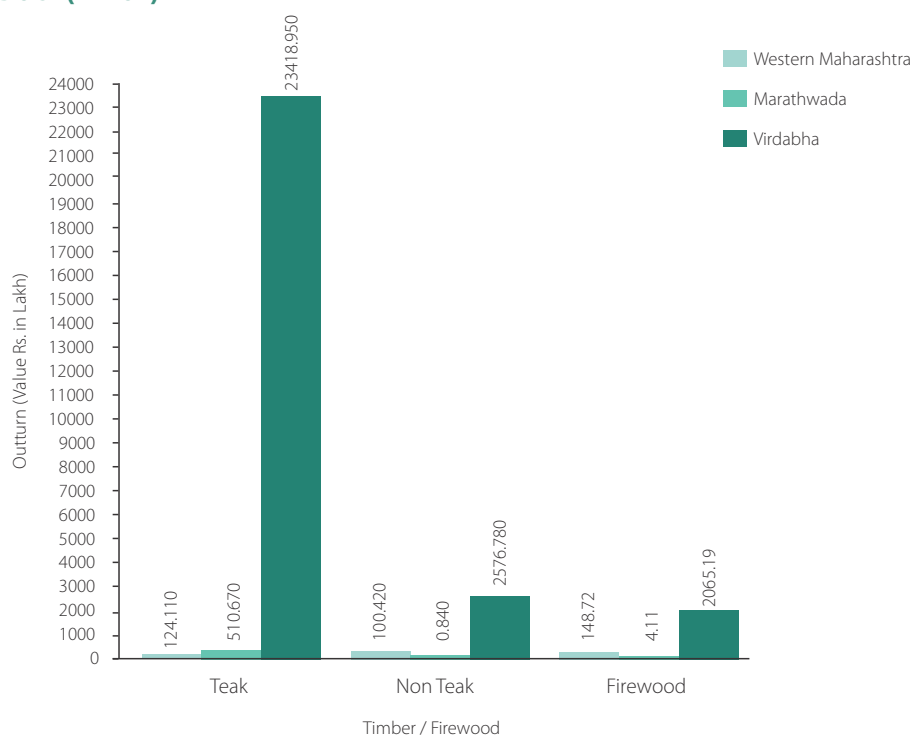
REGION-WISE OUTTURN OF MAJOR FOREST PRODUCE FOR THE YEAR 2019-20

Sr.No	REGION	Kind	TIMBER		FIREWOOD	
			Quantity (in '000 cu m)	Value (Rs.in lakh)	Quantity (in '000 cu m)	Value (Rs. in lakh)
1	Western Maharashtra	Teak	0.762	124.11	10.414	148.72
		Non Teak	2.419	100.42		
		Total	3.181	224.53		
2	Marathwada	Teak	1.209	510.67	0.06	4.11
		Non Teak	0.031	0.84		
		Total	1.240	511.51		
3	Vidarbha	Teak	48.287	23418.95	67.783	2065.19
		Non Teak	19.618	2576.78		
		Total	67.905	25995.73		
	Total Maharashtra State	Teak	50.258	24053.73	78.257	2218.02
		Non Teak	22.068	2678.04		
		Total	72.326	26731.77		

REGION-WISE OUTTURN OF MAJOR FOREST PRODUCE (QUANTITY)



REGION-WISE OUTTURN OF MAJOR FOREST PRODUCE (VALUE)



4.2.4 Outturn of Minor Forest Produce

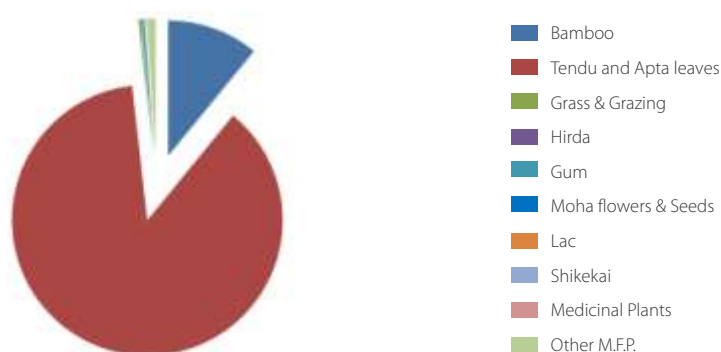
The total value of minor forest produce during 2019-20 was Rs. 4407.92 lakh. The value of outturn of important items of minor forest produce is as under.

TABLE-28

OUTTURN OF MINOR FOREST PRODUCE-(In terms of value) IMPORTANT ITEMS

Sr.No	Items	Value Rs. in lakh	Sr.No	Items	Value Rs. in lakh
1	Bamboo	481.10	6	Moha flowers & Seeds	0.07
2	Tendu and Apta leaves	3847.65	7	Shikekai	1.42
3	Grass & Grazing	11.45	8	Medicinal Plants	3.79
4	Hirda	0.19	9	Other M.F.P.	45.88
5	Gum	16.38		Total	4407.92

OUTTURN OF MINOR FOREST PRODUCE



The outturn of some of the important Minor Forest Produce collected during the year 2019-20 is given in Table 29.

TABLE-29

OUTTURN AND VALUE OF IMPORTANT MINOR FOREST PRODUCE

Sr.No	Items	Unit	Quantity		Value (Rs. in Lakh)	
			2019-20	2018-19	2019-20	2018-19
1	Bamboo	M.T.	4397	10831	481.10	599.08
2	Tendu & Apta leaves	Std. bag	223874	211997	3847.65	5069.07
3	Grass & Grazing	M.T.	495	1440	11.45	16.99
4	Hirda	Qtl.	70	1356	0.19	3.81
5	Gum	Qtl.	2675	225	16.38	14.53
6	Moha Flowers, Moha Fruits & Seeds	Qtl.	9	8023	0.07	55.58
7	Lac	Qtl.	0	25	0	6

Note : Quantities derived are approximate.

4.2.5 Prices

The Prices obtained in auction through major Government Timber depots during the year 2019-20 & 2018-19 are shown in the table given below.

Sr.No	Kind of Material	Year	Average Rates (Rs./Cum.)	
			Govt. Timber Depot.	
			Paratwada	Ballarshah
1	Teak Round Logs	2019-20	47118	62811
		2018-19	64466	70919
2	Ain Round Logs	2019-20	11616	12339
		2018-19	14978	18336
3	Bija Round Logs	2019-20	-	16132
		2018-19	-	19284
4	Adjat Round Logs (Sajad, Haldoo, Sivan)	2019-20	4190	-
		2018-19	7146	-
5	Sisam Round Logs	2019-20	-	89084
		2018-19	111068	87626
6	Other (Haldoo)	2019-20	27942	6184
		2018-19	30493	8196
7	Teak Poles	2019-20	-	428
8	Non Teak Poles	2019-20	-	130

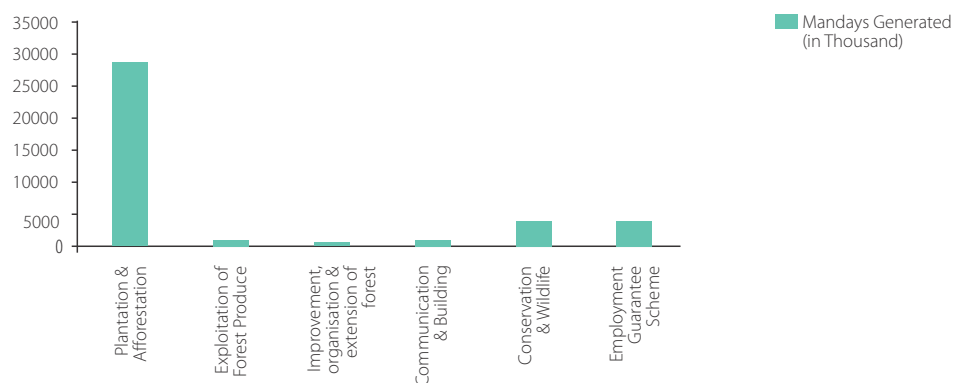
4.2.6 The forestry operations engaged large labour force for its varied activities and provided employment to villagers, especially tribals & weaker sections residing in or close to forest areas. A special attention was also given to socio-economic upliftment through tribal sub-plan schemes. The labourers were paid wages at prescribed rates fixed by wage boards and sanctioned by

Government. Payment to labourers at sanctioned wage rates was ensured by the forest officers by spot enquiries & supervision. The broad assessment of labour employment during 2019-20 on various non-plan, plan and other activities of forest department is given in Table 30



TABLE-30**BOARD ASSESSMENT OF LABOUR EMPLOYMENT***(Provisional)*

Sr.No	Activity	Mandays generated (In thousand)	Wages Paid (In Lakhs)
1	Plantation and Afforestation	28816.15	107058.36
2	Exploitation and Forest Produce	884.86	3303.32
3	Improvement, Organization and Extension of Forests	354.82	1335.14
4	Communication and Building	677.11	2513.16
5	Conservation and Wildlife	4113.82	15319.24
6	Employment Guarantee Scheme	4364.00	21184.47
Total 2019-20		39210.76	150713.69
2018-19		53230.38	178856.86

**MANDAYS
GENERATED****4.2.7 Forest Utilization Activity**

Quantity of raw material supplied to various forest based industries under contracted obligation during the year 2019-20 is given as below.

Industries	Production (MT)	Royalty (Rs. in Lakh)
BILT	NIL	NIL

Source :- DCF (Resource Utilization) M.S. Nagpur)

CHAPTER – V



FOREST ENGINEERING

CHAPTER – V

Forest Engineering

5.1.1 An efficient system of communication is essential for proper development of forest and maximum utilization of their produce. Infrastructure, roads, bridges, residential and non residential buildings is required to be maintained and developed by the Forest Department. The works include construction of building for residential and non residential purposes, roads and bridges for facilitation of communication and transportation of forest produce and construction of wells, tanks, anicuts, sheds etc. were undertaken for the welfare of inhabitants in forest areas.

The plans and estimates of works were drawn by the Civil Engineering units. There were also some industrial units viz. Saw mills, Preservation and Treatment plants. Maintenance of large number of machineries, vehicles and equipment was attended by logging units of Forest

Department. Operation and maintenance of these units is attended by the Mechanical Engineering personnels.

5.1.2 Civil Engineering

During the year under report, an expenditure of Rs 6048.36 lakh was incurred on construction of new buildings and repairs to old buildings. The construction of new roads and improvement and maintenance of old one were undertaken at an estimated cost of Rs. 807.93 lakh during the year under report. The cost of other works viz. bridges, anicuts, culverts, labour sheds etc was Rs.361.90 lakh.

Circlewise details of expenditure incurred under various budget heads during the year is given in Table 31

COMMUNICATION AND BUILDING -EXPENDITURE

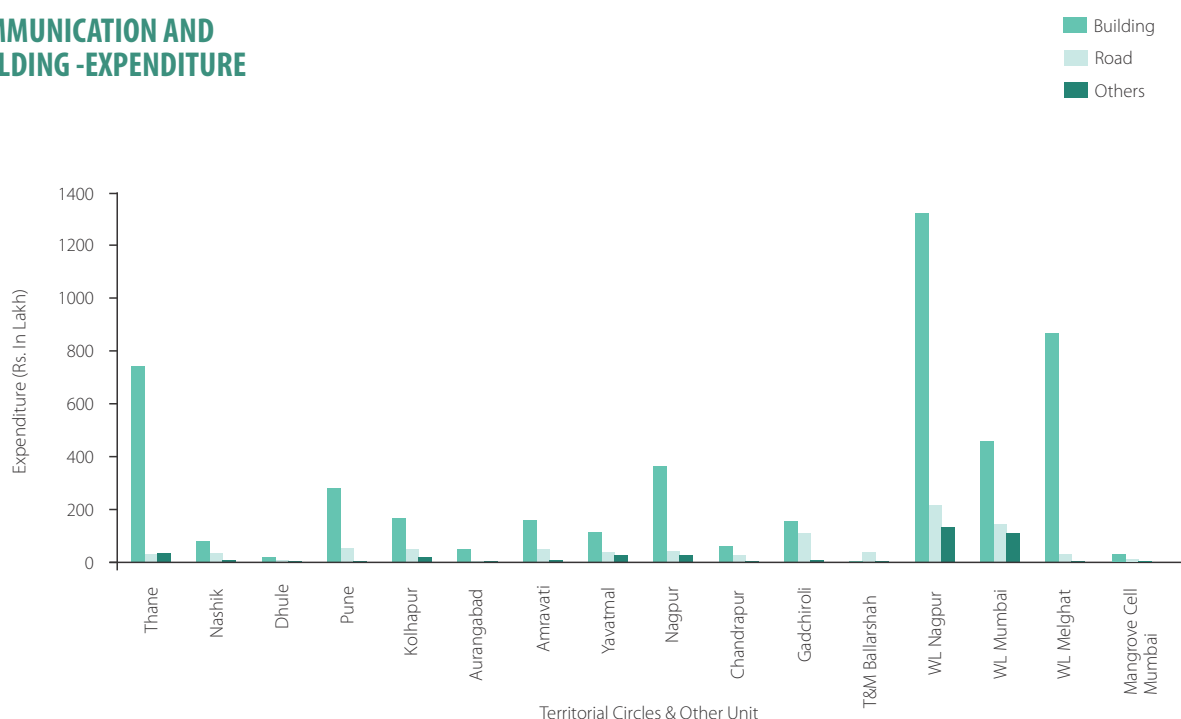


TABLE-31

COMMUNICATION AND BUILDING -EXPENDITURE DURING THE YEAR 2019-2020

(Exptd. Rs. in lakh) (Provisional)

Circles	Thane	Nashik	Dhule	Pune	Kolhapur	A'bad	Amravati	Yavatmal	Nagpur	Chandrapur	Gadchiroli	T & M Ballarshah	WL Nagpur	WL Mumbai	WL Melghat	Mangrove Cell	TOTAL
Building	535.16	53.90	12.16	237.27	110.07	58.40	0.00	99.32	293.15	43.33	60.92	0.00	1141.12	327.88	120.62	18.67	3111.98
Road	1.52	12.70	0.00	48.90	0.00	0.00	0.00	0.00	17.00	5.00	38.79	0.00	39.12	7.15	7.86	0.00	178.04
Others	34.66	0.00	0.00	0.00	0.00	0.00	0.00	26.50	17.95	0.00	2.97	0.00	133.510	17.91	0	0.00	233.51
Total "A"	571.34	66.60	12.16	286.17	110.07	58.40	0.00	125.82	328.10	48.33	102.68	0.00	1313.75	352.94	128.48	18.67	3523.53
B. Expenditure incurred on Repair works																	
Building	207.47	34.83	14.86	54.26	66.06	0.00	162.43	12.54	69.32	7.83	97.79	0.00	159.16	136.24	743.77	0	1766.55
Road	22.23	20.32	5.00	14.13	55.46	0.00	54.56	31.45	26.10	14.40	49.19	20.43	167.38	136	13.24	0	629.89
Others	0.00	0.00	0.00	0.00	21.78	0.00	0.00	0.00	5.44	0.00	0.00	0.00	0	101.17	0	0	128.39
Total "B"	229.70	55.15	19.86	68.39	143.30	0.00	216.99	43.99	100.86	22.23	146.98	20.43	326.54	373.41	757.01	0.00	2524.83
Total (A+B)	801.04	121.75	32.02	354.56	253.37	58.40	216.99	169.81	428.96	70.56	249.66	20.43	1640.29	726.36	885.49	18.67	6048.36

5.1.3 The district-wise details of existing roads maintained in Forest Department are given in Table 32.

TABLE-32

Forest Roads

(Length in Kms)

Forest Roads						
Sr.No	District	Surfaced			Unsurfaced	Total
		Water bound Macadam	Black topped	Cement Concrete		
1	Ahmednagar	0.60	0.00	0.00	20.11	20.71
2	Akola	85.60	0.00	0.00	75.70	161.30
3	Amaravati	802.58	98.75	116.70	325.25	1343.28
4	Aurangabad	32.48	0.77	0.00	10.20	43.45
5	Beed	9.75	1.50	0.23	23.07	34.55
6	Bhandara	47.50	0.00	0.00	267.67	315.17
7	Buldhana	183.47	65.71	2.00	42.47	293.65
8	Chandrapur	468.37	88.59	1.10	1061.14	1619.20
9	Dhule	0.00	0.32	0.00	73.93	74.25
10	Gadchiroli	466.39	1.00	0.00	2538.13	3005.52
11	Gondia	981.00	373.50	0.00	59.34	1413.84
12	Hingoli	8.31	0.00	0.00	0.00	8.31
13	Jalgaon	126.21	21.00	0.28	128.35	275.84
14	Jalna	4.28	0.00	0.00	4.71	8.99
15	Kolhapur	61.26	0.36	0.00	18.83	80.443
16	Latur	0.00	0.00	0.00	0.00	0.00
17	Mumbai Sub urban	1.47	14.00	13.63	48.89	77.99
18	Nagpur	428.59	65.59	0.00	2011.96	2506.14
19	Nanded	221.00	6.00	0.00	0.00	227.00
20	Nandurbar	0.00	0.00	0.00	212.20	212.20
21	Nashik	58.40	44.10	0.00	68.43	170.93
22	Osmanabad	0.00	1.65	0.00	0.00	1.65
23	Palghar	45.04	7.59	0.00	0.00	52.63
24	Parbhani	8.00	0.00	0.00	0.00	8.00
25	Pune	21.13	9.00	1.71	28.41	60.25
26	Raigad	1.40	1.28	0.29	48.70	51.68
27	Ratnagiri	0.23	0.00	0.00	0.00	0.23
28	Sangli	75.89	7.77	2.40	16.99	103.05

(Length in Kms)

Forest Roads						
Sr.No	District	Surfaced			Unsurfaced	Total
		Water bound Macadam	Black topped	Cement Concrete		
29	Satara	35.61	4.33	0.50	108.96	149.39
30	Sindhudurg	18.55	3.40	0.00	1.42	23.37
31	Solapur	1.50	0.00	0.00	9.87	11.37
32	Thane	16.57	3.39	0.00	117.44	137.40
33	Wardha	163.90	0.00	0.00	680.14	844.04
34	Washim	0.00	0.00	0.00	86.70	86.70
35	Yavatmal	718.24	169.20	0.00	114.80	1002.24
Total Maharashtra State		5093.31	988.79	138.84	8203.78	14424.72

Source-Desk-24 (F.E.) % PCCF M.S.Nagpur

5.1.4 Similarly there were large numbers of buildings maintained in the Forest Department at the end of the year under report. The circle wise details about existing buildings are as under.

TABLE-33**Forest Buildings in charge of Forest Department**

(Length in Kms)

Sr.No	Circle	Div. Offices	Range Offices	Forest Rest Houses	Inspection Huts	Residen. Quarters	Labour Sheds	Others	Total
1	Thane	4	45	13	14	674	38	175	963
2	Nashik	7	30	18	20	361	90	206	732
3	Dhule	4	35	36	31	502	89	209	906
4	Pune	3	23	9	20	286	52	80	473
5	Kolhapur	5	27	23	19	298	68	179	619
6	Aurangabad	4	26	9	17	294	57	124	531
7	Amravati	4	25	6	23	483	89	109	739
8	Yavatmal	3	23	5	20	321	98	92	562
9	Nagpur	3	49	21	42	852	80	242	1289
10	Chandrapur	3	20	9	24	389	74	128	647
11	Gadchiroli	5	38	12	49	894	169	409	1576
12	Edn.& Res.Pune	10	8	2	5	311	26	125	487
13	Nagpur Wildlife	6	24	12	8	408	67	682	1207
14	Mumbai Wildlife	6	22	34	50	345	101	424	982
15	Melghat MTP Wildlife	5	20	22	19	516	89	287	958
16	T & M Ballarshah	1	6	1	0	158	32	24	222
TOTAL		73	421	232	361	7092	1219	3495	12893

Source-Desk-24 (F.E.) % PCCF M.S.Nagpur

5.2 INDUSTRIAL UNIT

5.2.1 Saw Mill

The performance of Govt. Saw mill at Allapalli in Gadchiroli Circle and circle-wise number of licensed saw mills is given below.

TABLE-34

PERFORMANCE OF GOVERNMENT SAW MILLS

(Length in Kms)

Location of Saw Mill	Circle	Division	Intake		Outturn (Sawn Timber)	
			No.s	(M ³)	No.s	(M ³)
Allapalli	Gadchiroli	Allapalli	303	21.395	2144	15.361

In this Saw mill material received from private parties is being cut on commercial basis.

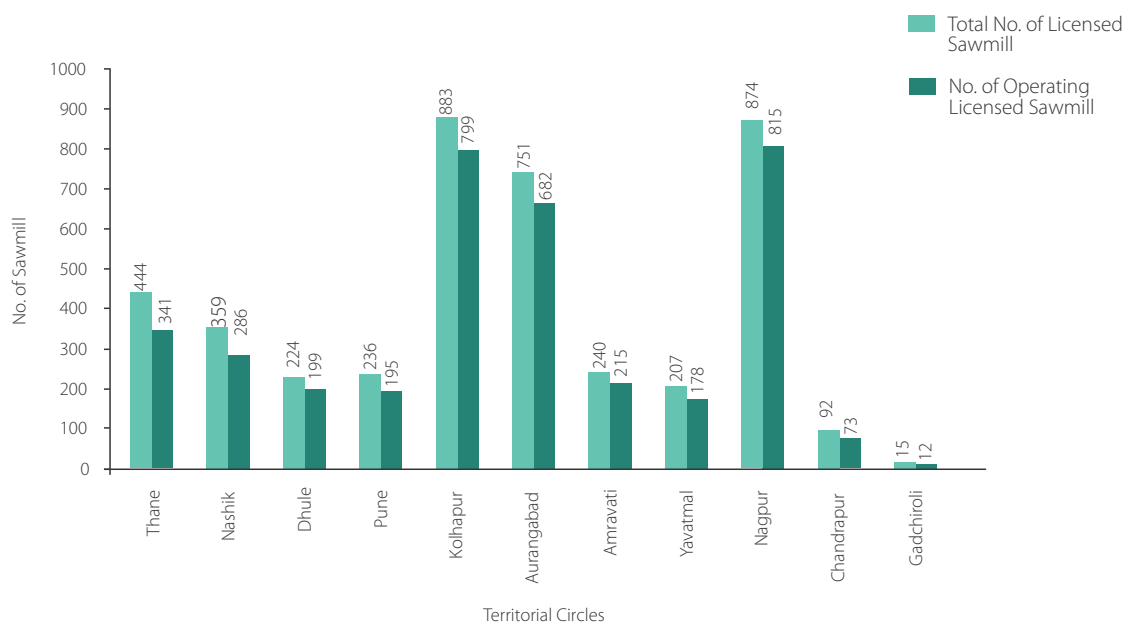
TABLE-35

Circle-wise Licensed Saw Mills

Sr. No.	Circle	Total no. of Licensed sawmills (I.D.issued)	Application received for renewal of sawmill Licensed	Renewal rejected	Renewal application pending	No. of operating licensed sawmill(4-(5+6))
1	2	3	4	5	6	7
1	Thane	444	369	28	0	341
2	Nashik	359	310	24	0	286
3	Dhule	224	204	4	1	199
4	Pune	236	197	2	0	195
5	Kolhapur	883	804	4	1	799
6	Aurangabad	751	691	8	1	682
7	Amravati	240	228	13	0	215
8	Yavatmal	207	186	6	2	178
9	Nagpur	874	841	21	5	815
10	Chandrapur	92	76	3	0	73
11	Gadchiroli	15	12	0	0	12
	Total	4325	3918	113	10	3795

Source-APCCF (Protection)

SAWMILL (REGISTERED VS. UNREGISTERED)



5.2.2 Mechanized Logging Unit

Details of the timber of some of the forest divisions harvested by the mechanized logging units is given in Table 36

TABLE-36

TIMBER HARVESTED BY MECHANIZED LOGGING UNIT

Sr. No.	Circle	Location of unit	Kind of Material	Quantity logged	Value Rs. in lakh
1	2	3	4	5	6
1	Gadchiroli	T & M Ballarshah	a. Timber (Cu.M)	28	662.29
			b. Fire wood (Beats)		2980.75
			c. Long Bamboo(No.)		1900

5.3 Machinery & Vehicles

5.3.1 There were various types of vehicles i.e. Trucks, Jeeps, Cars and Motor and Other machineries etc. in use by Forest Department. The Circlewise information is given in Table 37.

TABLE-37

VEHICLES AND MACHINERIES IN FOREST DEPARTMENT

Sr No.	Vehicle / Machinery	Thane	Nashik	Dhule	Pune	Kolhapur	Abad	Amravati	Yavatmal	Nagpur	Chandrapur	Gadchiroli	Ballarshah	Wildlife Nagpur	Wildlife Mumbai	SFD Pune	RET, Pune	Working Plan Nagpur	Working Plan Pune	Kandal van	Evaluation	PCCF Office	Bamboo board , Nagpur	APCCF & MD Ecotourism	CCF Maharashtra State Zoo Authority	TOTAL
1	Car	16	1	4	4	3	3	1	1	3	3	1	1	2	14	7	8	6	7	1	1	23	2	1	1	114
2	Patrolling Car	0	0	0	0	0	0	1	0	0	0	5	0	1	0	18	0	0	0	0	0	0	0	0	0	25
3	Gypsy & Jeep	93	65	67	53	65	67	53	64	78	48	87	2	134	82	112	19	9	8	7	13	8	0	0	1	1135
4	Truck/MiniTruck	2	6	3	0	0	1	16	4	11	3	14	14	14	7	0	0	0	0	0	0	0	0	0	0	95
5	Bus/Mini bus	0	0	1	0	0	0	2	1	1	2	2	0	12	0	0	6	0	0	0	0	0	0	0	0	27
6	Tractor/Tractor Trolley	0	0	2	1	0	0	20	2	5	9	27	12	21	7	2	1	0	0	0	0	0	0	0	0	109
7	Canter	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	
8	Paddleboat/Motorboat	3	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	4	0	0	0	0	0	25
9	Pick up Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Water Tanker	0	0	1	0	0	0	2	1	5	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	16
11	Cru-Cab	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
12	Rescue Van	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
13	Motor Launch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Tempo	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	4
15	Ambulance	0	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4
16	Road Roller	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Trailer	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18	JCB	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
19	Fire Bridge Van	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Source-PCCF(P&M)

CHAPTER – VI



**FINANCIAL
RESULTS**

CHAPTER – VI

Financial Results

6.1.1 The receipt of Forest Revenue during the year 2019-20 was Rs. 277.27 crores (Provisional). The total expenditure incurred during the year 2019-20 was Rs 3909.97 crores. There was a decrease in expenditure by 6.83 % as compared to last year expenditure and decrease in forest revenue by 11.89% over that of previous year.

The comparative position of the Revenue & the expenditure for the year 2019-20 and 2018-19 is indicated in the below given table.

TABLE-38

NET REVENUE & EXPENDITURE OF THE FOREST DEPTT.

(Rs. in crores)

Year	Revenue	Expenditure			Surplus or deficit of Revenue	
		Non -plan including grants to Z.P.	Plan & Other activities (i.e. Western Ghat, I.S.R.V.P. excluding E.G.S.)	Total	Over Non-plan expenditure	Over Total Expenditure
2019-20	277.27	1876.32	2033.65	3909.97	(-)1599.05	(-) 3632.70
2018-19	314.69	1365.31	2811.83	4177.14	(-)1050.62	(-)3862.45

The details of revenue and expenditure of various circles were as shown below

TABLE-39

CIRCLE-WISE REVENUE & EXPENDITURE (Rs. in lakh)

(Rs. in lakh)

Circle	Revenue	Expenditure		
		Non Plan /Z.P. etc	Plan & related Activities	Total
Thane	1243	13261	8529	21790
Nashik	110	9171	14132	23303
Dhule	128	8520	6187	14708
Pune	69	6774	9224	15998

(Rs. in lakh)

Circle	Revenue	Expenditure		
		Non Plan /Z.P. etc	Plan & related Activities	Total
Kolhapur	405	8421	7443	15864
Aurangabad	297	12199	29441	41640
Amravati	5025	8174	5260	13434
Yavatmal	1267	8305	4585	12890
Nagpur	1346	29508	5664	35172
Chandrapur	722	7604	9424	17029
Gadchiroli	16382	13982	2635	16617
WL Units	450	17236	24804	42040
SFD	186	15511	67650	83162
T & M Ballarshah	79	1674	0	1674
Other Units	19	27291	8386	35677
Total	27727	187632	203365	390997

6.2 Revenue

6.2.1 The details of increase or decrease in Revenue in 2019-20 over previous year are indicated below

TABLE-40

CHANGE IN FOREST REVENUE IN 2019-20 OVER 2018-19

(Rs. in lakh)

Sr.No	Circle	Revenue		Increased (+) or decreased (-) in Forest Revenue in 2019-20 over 2018-19
		2019-20	2018-19	
1	Thane	1242.81	1304.07	(-) 61.26
2	Nashik	110.12	116.73	(-) 6.60
3	Dhule	128.27	187.92	(-) 59.65
4	Pune	69.34	53.72	(+) 15.62
5	Kolhapur	404.89	3027.57	(-) 2622.68
6	Aurangabad	296.70	727.46	(-) 430.76
7	Amravati	5024.64	3368.56	(+) 1656.08
8	Yavatmal	1266.71	1506.87	(-) 240.16
9	Nagpur	1345.72	2124.16	(-) 778.44
10	Chandrapur	721.74	1702.82	(-) 981.08
11	Gadchiroli	16382.11	16553.48	(-) 171.37
12	Other units	655.29	673.09	(-) 17.80
13	T & M Ballarshah	78.84	122.16	(-) 43.32
Total		27727.18	31468.61	(-) 3741.43



6.2.2 The main sources of forest revenue were timber, bidi leaves, bamboo, & firewood. The source-wise composition of forest revenue is given in Table 41.

TABLE-41

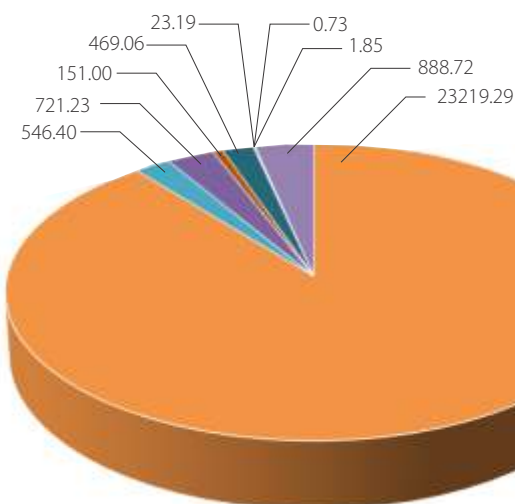
COMPOSITION OF FOREST REVENUE BY SOURCES YEAR-2019-20

(Rs. in lakh)

Sr.No	Source	Revenue (Rs.in lakh)	Percentage to Total Revenue
1	Timber	23219.29	83.74
2	Firewood	546.40	1.97
3	Bamboo	721.23	2.60
4	Grass & Grazing	151.00	0.54
5	Bidi leaves and Apta	469.06	1.69
6	Gum	1.85	0.01
7	Hirda	0.73	0.00
8	Other MFP	23.19	0.08
9	Other Receipts	888.72	3.21
10	Others	1705.72	6.15
	Total	27727.18	100.00
	Refunds	0	0
	Net Revenue	27727.18	100

(Other Receipt includes- Fine & Forfeiture, Recovery of over payment, Sale of material by Tribals, Receipt from plantations, Tendu Receipt, Revenue from Shared and Private forests, Receipt from enforcement of Bombay Wild animals and wild birds Protection Act-1972, Compensatory Afforestation under FCA-1980 Act. SFD)

**REVENUE
(RS.IN LAKH)**



6.3 Expenditure

6.3.1 The expenditure incurred during the year 2019-20 and classified according to major heads reveals the following position vis-a-vis the previous year 2018-19.

TABLE-42

BROAD CLASSIFICATION OF FOREST EXPENDITURE AND BREAK UP OF NON-PLAN AND PLAN EXPENDITURE

(Rs. in crores)

Item	Non Plan Expenditure			Plan Expenditure			Grand total of Forest Expenditure
	2406 + 4406 Forestry & Wildlife + 2045 Other Tax + 2415 Agr. & Res.	7 % Grant to Z.P.	Total	2406 Forestry & Wildlife	4406 Forestry & Wildlife + 4415 Agr. Research	Total Plan	
2019-20							
I) Forest Department	1870.48	5.84	1876.32	616.76	1416.89	2033.65	3909.97
ii) Payment to FDCM	0	0	0.00	0	0	0	0.00
Total	1870.48	5.84	1876.32	616.76	1416.89	2033.65	3909.97
2018-19							
I) Forest Department	1356.29	9.02	1365.31	1040.01	1769.82	2809.83	4175.14
ii) Payment to FDCM	0	0	0.00	2	0	2	2.00
Total	1356.29	9.02	1365.31	1042.01	1769.82	2811.83	4177.14

6.3.2 Circle-wise break-up of expenditure

Circle-wise break-up of expenditure under major heads is given in Table -43.

TABLE-43

A (Non Plan)

(Rs. in crores)

Sr. No.	Circle	2406 Forestry & WL	2415 Agr. & Res	2406 & 2551(SFD)	3604 7% Grants to ZP	2045+2235 +7610 Other	Total Non-Plan
1	2	3	4	5	6	7	8
1	Thane	12612	0	0	8	641	13261
2	Nashik	8871	0	0	2	297	9171
3	Dhule	8323	0	0	1	197	8520
4	Pune	6572	0	0	1	201	6774
5	Kolhapur	7843	0	0	5	573	8421
6	Aurangabad	11023	0	0	4	1171	12199
7	Amravati	7581	0	0	191	403	8174
8	Yavatmal	8082	0	0	43	180	8305
9	Nagpur	28902	0	0	30	577	29508
10	Chandrapur	7467	0	0	52	85	7604
11	Gadchiroli	13262	0	0	248	472	13982
12	WL Units	16079	23	0	0	1135	17236
13	SFD	1056	0	14437	0	18	15511
14	T & M Ballarshah	1656	0	0	0	19	1674
15	Other Units	25119	1983	0	0	190	27291
Total A		164447	2006	14437	584	6158	187632

B (Plan)

(Rs. in crores)

Sr. No.	Circle	2406 Forestry & WL (State)	4406 +2415 Forestry & W.L.+ 4415 Agr. & Res. (State)	2406+4406 Forestry & W.L. (State) (9+10)	2406 Forestry & WL (District)	4406 Forestry & W.L.+ 9999 Agr. & Res. (District)	2406+ 4406 Forestry & W.L.(District) (12+13)	TOTAL Plan (11+14)	Grand Total (Non Plan+Plan) (8+15)
1	2	9	10	11	12	13	14	15	16
1	Thane	377	2267	2644	1970	3915	5885	8529	21790
2	Nashik	345	3968	4313	4671	5149	9820	14132	23303
3	Dhule	219	1447	1665	1989	2533	4522	6187	14708
4	Pune	1033	3142	4174	1968	3083	5050	9224	15998
5	Kolhapur	1127	3063	4190	1788	1465	3253	7443	15864

(Rs. in crores)

Sr. No.	Circle	2406 Forestry & WL (State)	4406 +2415 Forestry & W.L.+ 4415 Agr. & Res. (State)	2406+4406 Forestry & W.L. (State) (9+10)	2406 Forestry & WL (District)	4406 Forestry & W.L.+ 9999 Agr. & Res. (District)	2406+ 4406 Forestry & W.L.(District) (12+13)	TOTAL Plan (11+14)	Grand Total (Non Plan+Plan) (8+15)
1	2	9	10	11	12	13	14	15	16
6	Aurangabad	1469	13468	14937	5554	8950	14504	29441	41640
7	Amravati	616	2363	2979	740	1541	2281	5260	13434
8	Yavatmal	443	2222	2665	1546	374	1920	4585	12890
9	Nagpur	1499	1100	2600	1362	1702	3064	5664	35172
10	Chandrapur	2461	4588	7049	964	1411	2375	9424	17029
11	Gadchiroli	821	841	1662	404	568	972	2635	16617
12	WL Units	14163	1760	15923	2599	6282	8881	24804	42040
13	SFD	9278	58373	67650	0	0	0	67650	83162
14	T & M Ballarshah	0	0	0	0	0	0	0	1674
15	Other Units	2260	6099	8359	11	15.82	27	8386	35677
Total		36110	104700	140811	25566	36988	62555	203365	390997

CIRCLE-WISE NON-PLAN EXPENDITURE



PLAN EXPENDITURE



6.3.3 The details of expenditure according to activities for the year 2019-20 are given in Table 44.

TABLE-44

ACTIVITY-WISE COMPOSITION OF NON PLAN EXPENDITURE

(Rs. in crores)

Sr. No.	Activity	Non plan	plan	Total Expenditure
1	Direction & Administration	15735	0	15735
2	Central Nursery	1812	3036	4848
3	Building & Communication	890	8087	8977
4	Forest Cons. & Development	86766	25857	112623
5	Creation of Supernumerary Post	32387	0	32387
6	Plantation	1099	112461	113560
7	Dr. Babasaheb Ambedkar strengthening & Modernization of Govt. nurseries	0	2113	2113
8	Exploitation of Forest Produce	17005	425	17429
9	Training of other staff	1294	143	1437
10	Forest Parks / Tourism	1222	6934	8156

(Rs. in crores)

Sr. No.	Activity	Non plan	plan	Total Expenditure
11	Forest Labour Welfare	45	0	45
12	Payment to Adivasi Khatedars	0	255	255
13	Nature Conservation and Wildlife preservation	4027	15424	19452
14	Forest Research and Training.	1065	2693	3758
15	Grant to ZP. + Western Ghat, ISRVP+2045 Other Taxes	679	0	679
16	Scheme Financed from Receipt of F.D. Tax	0	197	197
17	Compensation for the losses due to wild animal attack	6968	291	7259
18	Settlements of Rights & Privileges rehabilitation of privileges in National Parks Sanctuaries	0	1050	1050
19	Forest Protection & Others	0	4642	4642
20	Rent of leased forest and payable share holders in forest	2	0	2
21	Forest Development Tax on sales of produce by or on behalf of govt. or FDCM in Maharashtra	34	0	34
22	Supply of cooking gas and solar cooker	0	1625	1625
23	Computerization of Forest Dept	0	479	479
24	Dr Shyamaprasad Mukerjee Jan-Van Vikas	0	2962	2962
25	Establishment and preliminary works at gorewada	0	1200	1200
26	Strengthening Of State Biodiversity Board	0	525	525
27	New Scheme	0	1672	1672
28	Bamboo Research And Training Center, Chichpalli, Dist. Chandrapur	0	2244	2244
29	Chandrapur Forestry Academy Of Administration, Development & Management, Chandrapur	0	1847	1847
30	Establishment of Botanical Garden on Chandrapur-Ballarpur Road District Chandrapur	0	2090	2090
31	Establishment Of International Level Zoo At Goregaon, Arey Colony , Mumbai	0	60	60
32	Establishment Of Maharashtra Bamboo Development Board	0	276	276
33	Establishment Of Maharashtra Eco Tourism Board	0	37	37
34	Establishment Of Maharashtra State Zoo Authority (General)	0	90	90
35	Kundal Academy Of Development, Administration And Management (Forest)	0	379	379
36	National Bamboo Mission (40% State Share)	0	974	974



(Rs. in crores)

Sr. No.	Activity	Non plan	plan	Total Expenditure
37	Pandit Dindayal Upadhaya, Van Udyan with BalVidnyan Bhavan For Conservation of Biodiversity on Forest and Nonforest Land and Nature Protection	469	0	469
38	Kandalvan Protection and Livelihood production scheme	1801	0	1801
39	Advances for House building & purchase of motor cycle ,Computer , other conveyance	6097	0	6097
40	Payment under Deposit link Insurance Scheme	26	0	26
41	Audit Team	37	0	37
42	Other Expenditure	8640	2828	11468
	TOTAL	187632	203365	390997

6.4 Outstanding on Account of Forest Revenue

6.4.1 The position of outstanding on account of forest revenue in different circles, at the commencement and at the end of the year 2019-20 vis-à-vis that in the previous year is as follows.

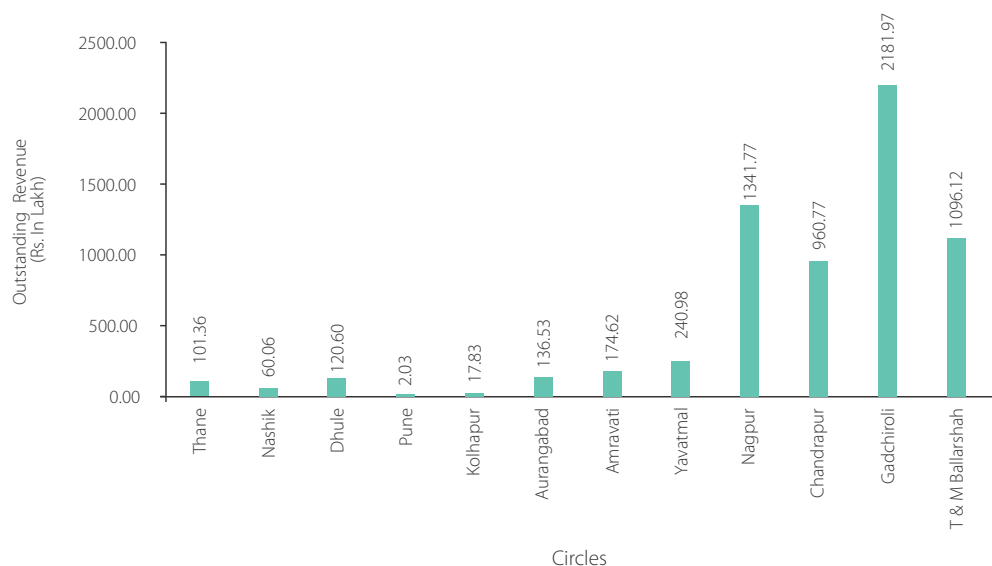
TABLE-45

OUTSTANDING ON ACCOUNT OF FOREST REVENUE

(Rs. in crores)

Sr. No.	Circle	Amount outstanding as on 01.04.2020	Amount outstanding as on 01.04.2019
1	Thane	101.36	119.95
2	Nashik	60.06	60.06
3	Dhule	120.60	123.48
4	Pune	2.03	1.56
5	Kolhapur	17.83	19.58
6	Aurangabad	136.53	138.86
7	Amravati	174.62	113.05
8	Yavatmal	240.98	222.95
9	Nagpur	1341.77	1399.59
10	Chandrapur	960.77	969.52
11	Gadchiroli	2181.97	2240.62
12	T & M Ballarshah	1096.12	1508.18
	TOTAL	6434.64	6917.40

OUTSTANDING ACCOUNT OF FOREST REVENUE (Rs in lakh)



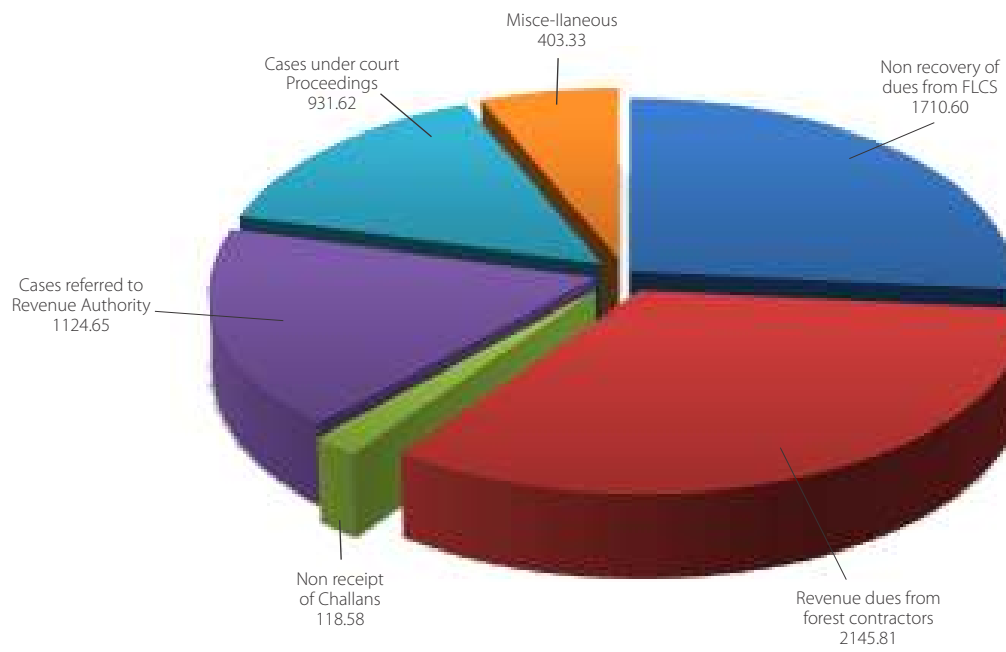
6.4.2 The breakup of outstanding amount according to various reasons was as given below

TABLE-46

OUTSTANDING OF FOREST REVENUE ON ACCOUNT OF DIFFERENT REASONS

Circle	(Rs. in crores)						Total
	Non recovery of dues from FLCS	Revenue dues from forest contractors	Non receipt of Challans	Cases referred to Revenue Authority	Cases under court Proceedings	Miscellaneous	
Thane	46.92	29.22	0.00	20.52	2.75	1.94	101.36
Nashik	0.00	32.45	0.00	3.49	5.97	18.15	60.06
Dhule	15.76	42.58	54.93	7.32	0.00	0.00	120.60
Pune	0.00	1.90	0.00	0.13	0.00	0.00	2.03
Kolhapur	0.12	15.72	0.00	1.69	0.29	0.01	17.83
A'bad	3.43	22.49	0.00	17.55	87.85	5.21	136.53
Amravati	24.34	38.72	52.00	41.75	8.93	8.88	174.62
Yavatmal	101.09	108.05	0.75	23.46	6.64	0.99	240.98
Nagpur	1077.65	88.77	10.78	56.28	7.93	100.36	1341.77
Chandrapur	344.61	450.11	0.00	77.67	46.05	42.33	960.77
Gadchiroli	96.71	274.31	0.12	820.16	765.21	225.46	2181.97
T & M Ballarshah	0.00	1041.49	0.00	54.63	0.00	0.00	1096.12
Total 2019-20	1710.64	2145.81	118.58	1124.65	931.62	403.33	6434.64
2018-19	1714.60	1746.26	104.29	2518.98	407.30	425.97	6917.40

COMPOSITION OF OUTSTANDING REVENUE (Rs in lakh)



CHAPTER – VII



ADMINISTRATION

CHAPTER – VII

Administration

7.1 ORGANISATION

7.1.1 The various posts in the Forest Department from the level of Chief Conservator of Forests and above were held by the following officers during the year 2019-20.

TABLE-47

ORGANIZATION OF FOREST DEPARTMENT

Sr. No	Name of Post	Officers Name	Period
1	Principal Chief Conservator of Forests (HoFF), M.S. Nagpur	Shri. U. K. Agrawal	01/04/2019 to 30/11/2019
		Dr. N. Rambabu	01/12/2019 to 22/03/2020 (A/C)
		Dr. S. C. Gairola	23/03/2020 to 31/03/2020
2	Principal Chief Conservator of Forests (WL) M.S. Nagpur	Shri. N. H. Kakodkar	01/04/2019 to 31/03/2020
3	Principal Chief Conservator of Forests (P&M), M.S.Nagpur	Dr. S. H. Patil	01/04/2019 to 30/04/2019
		Shri. P. Srivastava	01/05/2019 to 31/05/2019 (A/C)
		Shri. P. Srivastava	01/06/2019 to 31/03/2020
4	Principal Chief Conservator of Forests S.F.D.Pune	Shri. Anurag Choudhary	01/04/2019 to 30/09/2019
		Dr. D. K. Tyagi	01/10/2019 to 11/12/2019 (A/C)
		Dr. D. K. Tyagi	12/12/2019 to 31/03/2020
5	Principal Chief Conservator of Forests (Budget Planning & Development) Nagpur	Shri. G. Saiprakash	01/04/2019 to 31/03/2020
6	Principal Chief Conservator of Forests(ITP)	Shri. P. Srivastava	01/04/2019 to 31/05/2019
		Shri. M. K. Rao	01/06/2019 to 31/03/2020
7	Member Secretary, Maharashtra State Biodiversity Board Nagpur (PCCF)	Shri. A. Ashraf	01/04/2019 to 30/04/2019
		Shri. T. S. K. Reddy	01/05/2019 to 31/05/2019 (A/C)
		Shri. Jeet Singh	01/06/2019 to 31/03/2020
8	Additional Principal Chief Conservator of Forests (Personnel) Nagpur	Shri. Maheep Gupta	01/04/2019 to 31/03/2020

Sr. No	Name of Post	Officers Name	Period
9	Additional Principal Chief Conservator of Forests (Research Education and Training), M.S.Pune	Shri. Jeet Singh	01/04/2019 to 31/05/2019
		Shri. Jeet Singh	01/06/2019 to 05/01/2020 (A/C)
		Shri. N. Vasudevan	06/01/2020 to 31/03/2020
10	APCCF (Admin-Sub.Ordinate Cadre), M.S. Nagpur	Shri. A. R. Mande	01/04/2019 to 30/06/2019
		Shri. Vikas Gupta	01/07/2019 to 31/03/2020
11	Additional Principal Chief Conservator of Forests (Wild Life) West Mumbai	Shri. M. K. Rao	01/04/2019 to 31/05/2019
		Shri. N. Vasudevan	01/06/2019 to 26/06/2019 (A/C)
		Shri. Sunil Limaye	27/06/2019 to 31/03/2020
12	Additional Principal Chief Conservator of Forests (Wild Life) East Nagpur	Shri. Sunil Limaye	01/04/2019 to 26/06/2019
		Shri. B. S. Hooda	27/06/2019 to 31/03/2020
13	Additional Principal Chief Conservator of Forests & Nodal Officer Nagpur	Shri. Sanjeev Gaur	01/04/2019 to 31/03/2020
14	Additional Principal Chief Conservator of Forests (Protection) Nagpur	Shri. B. S. Hooda	01/04/2019 to 26/06/2019
		Shri. S. G. Tembhurnikar	27/06/2019 to 04/08/2019 (A/C)
		Shri. Mohan Karnat	05/08/2019 to 31/03/2020
15	Additional Principal Chief Conservator of Forests(Conservation) Nagpur	Shri. S. G. Tembhurnikar	01/04/2019 to 31/03/2020
16	Additional Principal Chief Conservator of Forests(NTFP) Nagpur	Shri. T. K. Choube	01/04/2019 to 31/03/2020
17	Additional Principal Chief Conservator of Forests(CAMPA) Nagpur	Shri. Vikas Gupta	01/04/2019 to 30/06/2019
	Additional Principal Chief Conservator of Forests.& Chief Executive Officer (Maha- Campa) Nagpur	Shri. Sanjiv Gaur	01/07/2019 to 31/03/2020(A/C)
18	Additional Principal Chief Conservator of Forests, HQ. (SFD), Pune	Dr. D. Tyagi	01/04/2019 to 11/12/2019
		Shri. Vivek Khandekar	12/12/2019 to 31/03/2020(A/C)
19	Additional Principal Chief Conservator of Forests & Magroov Cell Head Mumbai	Shri. S. Vasudevan	01/04/2019 to 22/12/2019
		Shri. V. R. Tiwari	23/12/2019 to 31/03/2020
20	Managing Director, Maharashtra Bamboo Development Board Nagpur (APCCF)	Shri. T. S. K. Reddy	01/04/2019 to 31/03/2020
21	Additional Principal Chief Conservator of Forests(W.P.) West, Pune	Shri. A. N. Tripathi	01/04/2019 to 31/12/2019
		Shri. Vivek Khandekar	01/01/2020 to 13/02/2020 (A/C)
		Shri. N. Vasudeven	14/02/2020 to 31/03/2020(A/C)

Sr. No	Name of Post	Officers Name	Period
22	Additional Principal Chief Conservator of Forests & F.D. P.T, Melghat, Amravati	Shri. M. S. Reddy	01/04/2019 to 31/03/2020
23	Additional Principal Chief Conservator of Forests R& FD , Mantralaya Mumbai.	Shri. V. R. Tiwari	01/04/2019 to 22/12/2019
	Joint Secretary R&FD Mantralaya Mumbai	Shri. A. S. Apte	23/12/2019 to 31/03/2020

7.1.2 The posts of Chief Conservator of Forests and Conservator of Forests were held by the following officers at circle & functional level.

Sr. No	Circle	Name	Period
1	C.C.F.Planning and Management (Wild life) Nagpur	Shri. A. S. Kalaskar	01/04/2019 to 29/05/2019
	Dy.C.F. Planning and Management (Wild life) Nagpur	Ginni Singh	30/05/2019 to 31/03/2020
2	C.C.F. (W.P) East, Nagpur	Shri. Kalyan kumar	01/04/2019 to 16/09/2019 (A/C)
		Shri. Maheep Gupta	17/09/2019 to 31/03/2020(A/C)
3	Member Secretary, Maharashtra State, Zoo Authority, Nagpur (CCF)	Shri. R. S. Govekar	01/04/2019 to 31/03/2020(A/C)
4	Managing Director, Maharashtra State Ecotourism Development Board, Nagpur (CCI)	Shri. Kalyan kumar	01/04/2019 to 27/06/2019 (A/C)
		Shri. Vikas Gupta	28/6/2019 to 31/03/2020(A/C)
5	C.C.F. (LRC) Nagpur	Shri. V. M. Godbole	01/04/2019 to 31/03/2020(A/C)
6	C.C.F. (BPD) Nagpur	Shri. Mukul Trivedi	01/04/2019 to 31/03/2020
7	C.C.F.(HRM) Nagpur	Shri. S. S. Dahiwalke	01/04/2019 to 31/03/2020(A/C)
8	C.C.F. Amravati Circle	Dr. Pravin Chavan	01/04/2019 to 31/03/2020
9	C.C.F.Aurangabad,Circle	Shri. P. K. Mahajan	01/04/2019 to 31/03/2020
10	C.C.F. Nagpur, Circle	Shri. Kalyan Kumar	01/04/2019 to 31/03/2020
11	C.C.F. Nashik, Circle	Shri. V. S. Shelke	01/04/2019 to 31/10/2019
		Shri. A. M. Anjankar	01/11/2019 to 31/03/2020(A/C)
12	C.C.F.Pune,Circle	Shri. Vivek Khandekar	01/04/2019 to 31/03/2020
13	C.C.F.Thane,Circle	Shri. Naresh Zurmure	01/04/2019 to 31/03/2020
14	C.C.F. Dhule,Circle	Shri. V. S. Shelke	01/04/2019 to 08/06/2019 (A/C)
		Shri. A. S. Kalaskar	09/06/2019 to 31/03/2020
15	C.C.F.Yavatmal,Circle	Shri. P. G. Rahurakar	01/04/2019 to 30/04/2019
		Dr. Pravin Chavan	01/05/2019 to 28/05/2019 (A/C)
	C.F.Yavatmal,Circle	Shri. R. K. Wankhade	29/05/2019 to 31/03/2020



Sr. No	Circle	Name	Period
16	C.C.F.Kolhapur, Circle	Dr. V. Clement Ben	01/04/2019 to 31/03/2020
17	C.C.F. (T), Chandrapur	Shri. S. V. Rama Rao	01/04/2019 to 31/03/2020
18	C.C.F.(T), Gadchiroli	Shri. W. I. Yatbon	01/04/2019 to 31/05/2019
		Shri. S. V. Rama Rao	01/06/2019 to 31/03/2020(A/C)
19	C.C.F. (Education and Training) Pune	Shri. M. M. Kulkarni	01/04/2019 to 31/07/2019
		Shri. R. M. Naikade	01/08/2019 to 29/09/2019 (A/C)
		Shri. J. P. Tripathi	30/09/2019 to 31/03/2020(A/C)
20	C.C.F. (Evaluation) Nagpur	Shri. Mukul Trivedi	01/04/2019 to 31/03/2020(A/C)
21	C.C.F.(NTFP) Nagpur	Shri. S. F. Pawara (DFO)	01/04/2019 to 31/05/2019 (A/C)
		Shri. S. D. Wadhai	01/6/2019 to 31/03/2020(A/C)
22	C.C.F.& Director (SGNP) Borivali	Shri. Anwar Ahmad	01/04/2019 to 31/03/2020
23	C.C.F.& F.D. P.T. Pench. Nagpur	Shri. R. S. Govekar	01/04/2019 to 31/03/2020
24	C.F. & F.D. P.T. Tadoba Andhari. Chandrapur	Shri. N. R. Praveen	01/04/2019 to 31/03/2020
25	C.F. (Forest Regulation) Nagpur	Shri. S. S. Dahiwalde	01/04/2019 to 31/03/2020
26	C.F. (Research) Pune	Shri. A. S. Apte	01/04/2019 to 16/12/2019 (A/C)
		Shri. R. M. Naikade	17/12/2019 to 31/03/2020(A/C)
27	C.F.(WL) Pune	Shri. R. K. Wankhade	01/04/2019 to 28/05/2019
		Shreelakshmi Annabathula	29/05/2019 to 02/06/2019 (A/C)
	Dy.C.F. (WL) Pune	Shri. S. Rameshkumar	03/06/2019 to 31/03/2020
28	C.F. & F.D. Sahyadri Tiger Reserve Kolhapur	Shri. S. M. Gujar	01/04/2019 to 31/03/2020
29	CF (Social Forestry) Nagpur	Shri. A. P. Giripunje	01/04/2019 to 30/09/2019
		Shri. S. S. Dahiwalde	01/10/2019 to 31/03/2020(A/C)
30	CF (Social Forestry) Aurangabad	Shri. N. B. Gudge	01/04/2019 to 31/03/2020
31	CF (Social Forestry) Amravati	Shri. D. P. Nikam	01/04/2019 to 31/03/2020
32	CF (Social Forestry) Pune	Shri. R. M. Naikade	01/04/2019 to 31/03/2020
33	CF (Social Forestry) Thane	Ms. Jayoti Banerjee	01/04/2019 to 31/03/2020
34	CF (Social Forestry) Nashik	Shri. Prakash Lonkar	01/04/2019 to 31/03/2020
35	CF (WL) Nashik	Shri. A. M. Anjankar	01/04/2019 to 31/03/2020
36	CF. & F.D. Nawegaon-Nagzira Tiger Reserve, Gondia	Shri. R. M. Ramanujam	01/04/2019 to 31/03/2020
37	C.F., W.P.Dn.Dahanu at Mumbai	Ms. Jayoti Banerjee	01/04/2019 to 29/05/2019 (A/C)
	Dy.C.F. W.P. Dn.Dahanu at Mumbai	Shri. R. K. Das	30/05/2019 to 31/03/2020
38	C.F.W.P.Dn.Pune	Shri. A. S. Apte	01/04/2019 to 16/12/2019
		Shri. V. D. Suryawanshi	17/12/2019 to 31/03/2020(A/C)
39	Jt.Secy.-2 R&FD, Mantralay Mumbai	Shri. S. D. Dodal	01/04/2019 to 31/03/2020

Sr. No	Circle	Name	Period
40	CCF & Director General, Kundal Forest Development and Management Academy Kundal Dist.Sangali	Shri. M. M. Kulkarni	01/04/2019 to 30/07/2019 (A/C)
	CF & Director General, Kundal Forest Development and Management Academy Kundal Dist.Sangali	Shri. J. P. Tripathi	30/09/2019 to 31/03/2020(A/C)
41	Director, Kundal Forest Development and Management Academy Kundal Dist. Sangali	Shri. D. M. Bhat	01/04/2019 to 31/07/2019
		Shri. C. L. Dhumal	01/08/2019 to 31/03/2020(A/C)
42	Director, Chandrapur Forest Development and Management Academy Chandrapur (C.F.)	Shri. A. N. Kahadse	01/04/2019 to 31/03/2020

Source-APCCF (Personnel)

7.2 Education and Training

Information regarding education and training imparted to forest staff is given in table 48.

TABLE-48

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Kundal Academy of Development, Administration & Management (Forests), Kundal						
1	Induction Training For R.F.O. (Madhya Pradesh, Manipur States)	R.F.O. Training		29-04-2019	28-10-2020	41
2	Induction Training For R.F.O. (Madhya Pradesh, Manipur, Mizoram, Chattisgadh Karnataka States)			18-11-2019	17-05-2021	38
3	Induction Training for Newly Recruited Office Staff Clerk Acct. (Forest Dept.)	C	5	27-05-2019	07-07-2019	17
				13-08-2019	23-09-2019	38
				01-11-2019	12-12-2019	36
				16-12-2019	26-01-2020	35
				03-02-2020	15-03-2020	31
4	Promoted Foresters Refresher Training (Forest Dept.)	C	4	15-04-2019	14-05-2019	39
				15-05-2019	14-06-2019	30
				19-08-2019	18-09-2019	48
				23-09-2019	22-10-2019	54



Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Kundal Academy of Development, Administration & Management (Forests), Kundal						
5	Office Procedure Refresher Training (Forest Dept.)	C	3	19-08-2019	23-08-2019	11
				05-11-2019	09-11-2019	23
				23-12-2019	27-12-2019	21
6	I.C.T. Refresher Training (Forest Dept.)	C	4	10-06-2019	14-06-2019	18
				08-07-2019	12-07-2019	17
				22-07-2019	26-07-2019	18
				13-01-2020	17-01-2020	14
7	Joint Forest Management Training (Forest Dept.)	C	6	27-05-2019	31-05-2019	9
				03-10-2019	05-10-2019	42
				14-11-2019	16-11-2019	21
				30-12-2019	01-01-2020	19
				16-01-2020	18-01-2020	30
				18-02-2020	20-02-2020	17
8	Man Animal Conflict Training Workshop (Forest Dept.)	B	3	17-10-2019	19-10-2019	15
				11-12-2019	13-12-2019	24
				29-01-2020	31-01-2020	24
9	Agro forestry Workshop (Forest Dept.)	A & B	1	23-01-2020	24-01-2020	19
10	Wildlife Crime Control Bureau Workshop (Forest Dept.)	A & B	3	23-09-2019	27-09-2019	19
		A & B		25-11-2019	29-11-2019	21
		A & B		02-03-2020	06-03-2020	13
11	Eco - Tourism Training (Forest Dept.)	A & B	1	26-02-2020	28-02-2020	15
12	Media Management Workshop (Forest Dept.)	A & B	1	27-02-2020	27-02-2020	13
13	Biodiversity Workshop (Forest Dept.)	A & B	1	28-02-2020	29-02-2020	17
14	Survey & Handling of E.T.S. Machine Training (Forest Dept.)	C	1	10-02-2020	14-02-2020	38
15	Probationary R.F.O. Training on Online Application Forest & other Laws (Forest Dept.)	B	1	20-01-2020	08-02-2020	48
16	Guide Training (Pune Wildlife Div.)	-	1	02-05-2019	06-05-2019	39
17	STPEA - Class IV Training (DATI)	D	1	16-07-2019	18-07-2019	50
18	STPEA - One day Orientation Training (RATI)	B	1	07-04-2019	07-04-2019	46

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Kundal Academy of Development, Administration & Management (Forests), Kundal						
19	STPEA - Class III Refresher Training (RATI)	C	23	17-06-2019	21-06-2019	16
				24-06-2019	28-06-2019	10
				02-07-2019	06-07-2019	13
				29-07-2019	03-08-2019	32
				24-06-2019	28-06-2019	22
				08-07-2019	12-07-2019	60
				08-07-2019	12-07-2019	56
				22-07-2019	26-07-2019	43
				22-07-2019	26-07-2019	43
				27-08-2019	31-08-2019	51
				03-09-2019	07-09-2019	25
				14-10-2019	18-10-2019	24
				04-11-2019	08-11-2019	46
				18-11-2019	22-11-2019	56
				02-12-2019	06-12-2019	36
				17-12-2019	21-12-2019	49
				17-12-2019	21-12-2019	50
				31-12-2019	04-01-2020	64
				20-01-2020	24-01-2020	42
				27-01-2020	31-01-2020	61
				11-02-2020	15-02-2020	60
				24-02-2020	28-02-2020	41
				03-03-2020	07-03-2020	34
20	STPEA - Class III Induction Training (RATI)	C	4	11-11-2019	22-11-2019	50
				11-11-2019	22-11-2019	50
				02-12-2019	13-12-2019	53
				02-12-2019	13-12-2019	54
21	STPEA - Class II Refresher Training (RATI)	B	9	02-07-2019	06-07-2019	22
				15-07-2019	19-07-2019	27
				27-08-2019	31-08-2019	22
				04-11-2019	08-11-2019	56
				25-11-2019	29-11-2019	50
				25-11-2019	29-11-2019	29

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Kundal Academy of Development, Administration & Management (Forests), Kundal						
22	STPEA - Loklekha Samiti Orientation Training	B	4	23-12-2019	27-12-2019	16
				06-01-2020	10-01-2020	35
				03-02-2020	07-02-2020	27
				06-09-2019	07-09-2019	48
				20-09-2019	21-09-2019	58
				25-09-2019	26-09-2019	18
				13-01-2020	14-01-2020	51
23	STPEA - Post Promotional Training	C	3	27-01-2020	01-02-2020	50
				03-02-2020	08-02-2020	57
				24-02-2020	29-02-2020	56
24	Carrier Guidance Training for Youth	-	1	28-06-2019	28-06-2019	71
		-	2	09-07-2019	09-07-2019	50
		-	3	03-08-2019	03-08-2019	52
25	Woman Empowerment Training	-	1	10-07-2019	11-07-2019	57
	Total - Kundal Academy					3061
Chandrapur Forest Administration, Development & Management, Chandrapur						
1	Man Animal Conflict	Other	11	24.04.2019	19.09.2019	2386
2	Jalsakshrta Workshop (Yashda)	Jaldoot/ Jalpremi	2	04.08.2019	18.02.2020	342
3	Foundation Training Jalsakshrta (Yashda)	Jaldoot/ Jalpremi	4	09.12.2019	28.02.2020	100
4	One day orientation yashada	Class 3	27	19.06.2019	27.02.2020	1205
5	Refresher training 3 days	Class 3	2	08.07.2019	13.03.2020	18
6	Refresher training 4 days	Class 4	8	25.07.2019	13.03.2020	201
7	Fire fighting & fire protection & man animal conflict	Class 3	11	09.12.2019	14.02.2020	261
8	CAS (ZP Grant)	Class2 & 3	4	03.05.2019	06.05.2019	147
9	ZP Thematic workshop	Other	1	15.10.2019	15.10.2019	130
	Grand Total - Chandrapur Academy					4790

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Forest Training Institute, Chikhaldara						
1	Induction Training In service (Six Month)	Forest Guard	2	04/01/2019	03/07/2019	42
				01/10/2019	31/03/2020	89
2	Biodiversity Workshop (Forest Dept.)	Biodiver- sity Commit- tee Member	6	06/08/2019	06/08/2019	14
				07/08/2019	07/08/2019	23
				08/08/2019	08/08/2019	14
				13/08/2019	13/08/2019	19
				19/08/2019	19/08/2019	88
				20/08/2019	20/08/2019	50
3	Training Forest Guard related to Discipline, pared	R.F.O., Forester, Forest Guard, Driver	13	11/09/2019	12/09/2019	20
				13/09/2019	14/09/2019	23
				16/09/2019	17/09/2019	26
				18/09/2019	19/09/2019	26
				20/09/2019	21/09/2019	25
				23/09/2019	24/09/2019	27
				13/11/2019	14/11/2019	22
				15/11/2019	16/11/2019	14
				18/11/2019	19/11/2019	29
				20/11/2019	21/11/2019	26
				25/11/2019	26/11/2019	29
				27/11/2019	28/11/2019	30
				29/11/2019	30/11/2019	49
4	Importance and methods of forest protection and forest law forest crime research works	Forester/ Forest Guard	1	24/09/2019	26/09/2019	18
5	Man Animal conflicts	Forester/ Forest Guard	1	03/10/2019	05/10/2019	17
6	JFM Accounts & Procedure	Forester/ Forest Guard	1	10/10/2019	11/10/2019	15
7	Mapping	Forester/ Forest Guard	1	15/10/2019	15/10/2019	12
8	Importance of forensic principle in the investigation of wildlife crime	Forester/ Forest Guard	1	16/10/2019	17/10/2019	20
9	Communication Skill & Personality Development	Forester/ Forest Guard	1	18/10/2019	19/10/2019	17



Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Forest Training Institute, Chikhaldara						
10	Nature reading & importance	Forester/ Forest Guard/ Forest Labour	1	22/10/2019	23/10/2019	20
11	JFM	JFM Commit- tee Mem- ber	2	27/08/2019	29/08/2019	15
				15/01/2020	16/01/2020	21
12	JFM (Moha ful collection)	JFM Commit- tee Mem- ber	14	17/01/2020	17/01/2020	13
				19/01/2020	19/01/2020	13
				20/01/2020	20/01/2020	43
				21/01/2020	21/01/2020	18
				23/01/2020	23/01/2020	25
				25/01/2020	25/01/2020	24
				27/01/2020	27/01/2020	16
				01/02/2020	01/02/2020	15
				03/02/2020	03/02/2020	30
				10/02/2020	10/02/2020	19
				13/02/2020	13/02/2020	40
				14/02/2020	14/02/2020	32
				18/02/2020	18/02/2020	38
				28/02/2020	28/02/2020	41
	Grand Total - Chikhaldara					1207
Forest Training Institute, Pal						
1	Nature reading and its importance	Forest Guard	1	06-08-2019	06-08-2019	19
2	Communication skills and personality development	Forest Guard	1	03-09-2019	04-09-2019	22
3	Creating a treatment map	Forest Guard	1	05-09-2019	05-09-2019	18
4	Importance of forensic principle in the investigation of wildlife crime	Forest Guard Forester	1	16-09-2019	17-09-2019	18
5	JFM & procedure of preparation and Working	Forest Guard Forester	1	18-09-2019	19-09-2019	7

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Forest Training Institute, Pal						
6	Human Wildlife Conflict Problems and Solutions	Forest Guard Forester	1	16-10-2019	18-10-2019	23
7	Importance and methods of forest protection and forest law forest crime research works	Forest Guard Forester	1	31-10-2019	02-11-2019	28
8	Induction Training In service (Six Month)	Forest Guard	1	01-10-2019	31-03-2020	127
STPEA						
1	One day Orientation Training Programme	Multiple	1	28-05-2019	28-05-2019	50
			1	28-05-2019	28-05-2019	50
			1	28-05-2019	28-05-2019	43
			1	29-05-2019	29-05-2019	50
			1	29-05-2019	29-05-2019	30
			1	19-08-2019	19-08-2019	50
			1	19-08-2019	19-08-2019	44
			1	20-08-2019	20-08-2019	50
			1	20-08-2019	20-08-2019	54
			1	21-08-2019	21-08-2019	50
			1	21-08-2019	21-08-2019	50
			1	22-08-2019	22-08-2019	50
			1	22-08-2019	22-08-2019	52
			1	26-08-2019	26-08-2019	50
			1	26-08-2019	26-08-2019	47
			1	27-08-2019	27-08-2019	50
			1	27-08-2019	27-08-2019	41
			1	28-08-2019	28-08-2019	50
			1	28-08-2019	28-08-2019	30
			1	29-08-2019	29-08-2019	50
			1	29-08-2019	29-08-2019	30
			1	03-09-2019	03-09-2019	50
			1	03-09-2019	03-09-2019	30
			1	04-09-2019	04-09-2019	50
			1	04-09-2019	04-09-2019	30

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
STPEA						
2	Refresher Training Programme	(Class- C)	1	05-09-2019	05-09-2019	50
			1	05-09-2019	05-09-2019	30
			1	13-03-2020	13-03-2020	30
			1	13-03-2020	13-03-2020	30
		(Class- D)	1	24-06-2019	28-06-2019	25
			1	22-07-2019	26-07-2019	30
			1	29-07-2019	31-07-2019	15
			1	14-11-2019	16-11-2019	34
			1	21-11-2019	23-11-2019	35
			1	02-01-2020	04-01-2020	18
			1	04-02-2020	06-02-2020	23
			1	04-02-2020	06-02-2020	23
1	10-02-2020	12-02-2020	30			
1	10-02-2020	12-02-2020	30			
3	Foundation Training Programme	(Class- C)		10-06-2019	21-06-2019	21
		(Class- D)		05-08-2019	10-08-2019	16
		(Class- D)		06-01-2020	11-01-2020	18
		(Class- D)		24-02-2020	24-02-2020	27
		(Class- D)		24-02-2020	24-02-2020	26
	Grand Total - Pal					1957
Forest Training Institute, Shahapur						
1	Remedial Forest Map Making.	Forester/ Forest Guards	1	27-09-2019	-----	22
			1	05-02-2020		
2	Public Speaking & Personal Development.	Forester/ Forest Guards	1	17-10-2019	18-10-2019	27
			1	03-02-2020	04-02-2020	
3	Importance of Forensic Technology In searching wildlife crime	Forester/ Forest Guards	1	15-10-2019	16-10-2019	12
4	Importance and methods of forest Protection/ Conservation, Forest Act , Training of search of Forest crimes	Forester/ Forest Guards	1	29-01-2020	31-01-2019	12
5	Nature Reading And it's Importance.	Forester/ Forest Guards	1	05-11-2019	06-11-2019	10



Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Forest Training Institute, Shahapur						
6	Accounts and Maintenance of Records of Joint Forest Management Committee (JFM)	Forester/ Forest Guards	1	07-11-2019	08-11-2019	7
7	Human wildlife Conflicts Problems And solutions.	Forester/ Forest Guards	1	23-01-2020	24-01-2020	13
8	Induction Training In service (Six Month)	Forest Guards	1	01.10.2019	31.03.2020	148
9	Orientations Training Program for the class – 3 office management & etc.	class – 3	1	12-04-2019	12-04-2019	42
			1	12-04-2019	12-04-2019	35
			1	30-05-2019	30-05-2019	39
			1	24-06-2019	24-06-2019	40
			1	24-06-2019	24-06-2019	44
			1	25-06-2019	25-06-2019	40
			1	25-06-2019	25-06-2019	44
			1	17-07-2019	17-07-2019	22
			1	16-09-2019	16-09-2019	57
			1	20-09-2019	20-09-2019	47
			1	26-09-2019	26-09-2019	43
10	Orientations Training Program for the class – 3 GeM	class – 3	1	23-04-2019	23-04-2019	51
			1	31-05-2019	31-05-2019	29
11	Orientations Training Program for the class – 3 National Pension Scheme (NPS)	class – 3	1	22-04-2019	22-04-2019	47
			1	30-05-2019	30-05-2019	41
			1	23-07-2019	23-07-2019	24
			1	16-09-2019	16-09-2019	55
			1	19-09-2019	19-09-2019	50
			1	25-09-2019	25-09-2019	46
12	Orientations Training Program for the class – 3 RTS	class – 3	1	19-07-2019	19-07-2019	22
13	Orientations Training Program for the class – 3 Financial Management	class – 3	1	31-05-2019	31-05-2019	41
			1	18-07-2019	18-07-2019	22
			1	22-07-2019	22-07-2019	24
			1	24-07-2019	24-07-2019	24

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Forest Training Institute, Shahapur						
14	Orientations Training Program for the class – 3 Zero Pendency	class – 3	1	16-09-2019	16-09-2019	50
			1	18-09-2019	18-09-2019	49
			1	24-09-2019	24-09-2019	47
15	Orientations Training Program for the class – 3 Vishakhasamiti & office management	class – 3	1	14-11-2019	14-11-2019	50
			1	14-11-2019	14-11-2019	48
			1	15-11-2019	15-11-2019	45
			1	15-11-2019	15-11-2019	45
			1	16-11-2019	16-11-2019	46
			1	16-11-2019	16-11-2019	47
			1	18-11-2019	18-11-2019	45
			1	18-11-2019	18-11-2019	46
			1	19-11-2019	19-11-2019	52
			1	19-11-2019	19-11-2019	52
			1	21-11-2019	21-11-2019	52
			1	21-11-2019	21-11-2019	52
			1	22-11-2019	22-11-2019	53
			1	22-11-2019	22-11-2019	53
			1	25-11-2019	25-11-2019	50
			1	25-11-2019	25-11-2019	51
			1	15-03-2020	15-03-2020	67
			1	15-03-2020	15-03-2020	66
			1	15-03-2020	15-03-2020	77
			1	15-03-2020	15-03-2020	71
	Grand Total - Shahapur					2394
Forest Training Institute, Jalna						
1	Maharashtra Civil services rules	Chief Accountant / O.S	1	25.07.2019	25.07.2019	9
2	Nature reading and importance	Forester, Forest Guard, Forest labour	1	29.07.2019	31.07.2019	30
3	Communication Skill & personality development	Forester & Forest Guard	1	22.08.2019	23.08.2019	20



Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Forest Training Institute, Jalna						
4	Joint Forest Management	Forester & Forest Guard	1	26.08.2019	27.08.2019	25
5	Hospitality, Joint Forest Management	Forester & Forest Guard	1	12.09.2019	13.09.2019	17
6	Man Animal Conflict	Forester & Forest Guard	1	23.09.2019	25.09.2019	19
7	Induction Training In service (Six Month)	Forester & Forest Guard	1	01.10.2019	31.03.2020	98
8	Forest Protection & Offence	Forester & Forest Guard	1	20.11.2019	22.11.2019	28
9	Wildlife Forencies	Forester & Forest Guard	1	26.11.2019	27.11.2019	26
10	Working Plan	Forester & Forest Guard	1	30.01.2020	31.01.2020	35
Yashada Training Centre , Pune						
1	National Pension Scheme	Class 3	1	05.05.2019	05.05.2019	31
			1	07.09.2019	07.09.2019	64
			1	09.10.2019	09.10.2019	7
			1	14.11.2019	14.11.2019	10
			1	20.11.2019	20.11.2019	5
			1	19.12.2019	19.12.2019	46
2	7th Pay commission	Class 3	1	23.07.2019	23.07.2019	15
			1	20.09.2019	20.09.2019	17
			1	21.09.2019	21.09.2019	18
			1	18.12.2019	18.12.2019	47
			1	18.02.2020	18.02.2020	93
3	GeM Portal	Class 3	1	24.07.2019	24.07.2019	19
			1	13.08.2019	13.08.2019	50
			1	28.08.2019	28.08.2019	24
			1	29.08.2019	29.08.2019	23
			1	28.12.2019	28.12.2019	57

Sr. No	Name of Training Course	Cader	No of Courses	Period		No of trainees
				From	To	
Yashada Training Centre , Pune						
4	Mahapar	Class 3	1	04.09.2019	04.09.2019	51
			1	18.09.2019	18.09.2019	17
			1	19.09.2019	19.09.2019	12
5	RTI	Class 3	1	10.10.2019	10.10.2019	10
			1	17.02.2020	17.02.2020	93
6	JFM	JFM commi-tees	1	19.02.2020	19.02.2020	93
			1	26.02.2020	26.02.2020	101
7	Refresher Course	Class 3	2	05.08.2019	09.08.2019	23
		Class 4	2	23.07.2019	25.07.2019	11
8				20.08.2019	22.08.2019	17
	Grand Total - Jalna					1261

TABLE-49**Position of Staff in Forest Department**

7.3 The position of sanctioned staff as on 31st March 2020 in Forest Department (including Social Forestry Department Staff) is given in the following Table.

Sr. No	Category / Name of Post	Total No. of Sanctioned posts	No. of Posts filled in	No. of posts vacant
Group - A				
1	Principal Chief Conservator of Forests	7	7	0
2	Additional Principal Chief Conservator of Forests	16	14	2
3	Chief Conservator of Forests	22	12	10
4	Conservator of Forests	17	14	3
5	Dy. Conservator of Forests	71	64	7
6	Divisional Forest Officer	122	91	31
7	Dy. Director of Land Record	1	0	1
8	Chief Forest Statistician	2	1	1
9	Forest Engineer	1	0	1
10	Administrative Officer	20	17	3
11	Forest Statistician	9	2	7
12	Deputy Forest Engineer	13	4	9
13	Asstt. Conservator of Forests	316	204	112
14	Medical Officer	1	1	0
15	Asstt. Commissioner (Wildlife)	3	0	3
16	Deputy Commissioner (Wildlife)	1	0	1
17	Forest Settlement Officer	5	4	1
18	Sr. Personal Assistants	3	2	1
19	Personal Assistants	9	7	2
20	Veterinary Officer	8	2	6
	TOTAL GROUP - A	647	446	201
Group B				
1	Assistant Forest Statistician	17	8	9
2	Office superintendent	73	63	10
3	Range Forest Officer	992	867	125
4	Assistant Engineer	3	2	1
5	Sectional Engineer	17	8	9
6	Workshop Superintendent	2	0	2



Sr. No	Category / Name of Post	Total No. of Sanctioned posts	No. of Posts filled in	No. of posts vacant
Group B				
7	Dy Engineer Technical	1	0	1
8	Assistant Medical Officer	7	4	3
9	Dy.Supritendent, Land Record	3	1	2
10	Supervisor, BRTC	1	0	1
11	Handicraft Instructor, BRTC	2	0	2
	Total Group B	1118	953	165
Group B (Non Gazetted)				
1	Stenographer (H.G.)	39	21	18
2	Stenographer (L.G.)	52	34	18
3	Ranger Surveyor	56	40	16
	Total Group B (Non Gazetted)	147	95	52
Group C				
1	Chief Accountant	168	137	31
2	Accountant	874	732	142
3	Clerk	1648	1349	299
4	Forester	3025	2542	483
5	Forest Guard	9461	8715	746
6	Surveyor	221	158	63
7	Jr. Engineer	10	8	2
8	Sr. Statistical Asstt.	23	13	10
9	Police Sub-Inspector (wireless)	4	3	1
10	Jr. Statistical Asstt.	29	14	15
11	Steno Typist	46	11	35
12	Draftsman	4	1	3
13	Tracer	12	9	3
14	Asst. Draftsman	2	1	1
15	Armed Police	150	114	36
16	Police Constable	18	17	1
17	Driver	663	461	202
18	Mechanic	24	15	9
19	Mahawat	19	7	12
20	Sawyer	7	6	1
21	Wireless Operator	11	1	10

Sr. No	Category / Name of Post	Total No. of Sanctioned posts	No. of Posts filled in	No. of posts vacant
Group C				
22	Other	237	159	78
	Total Group C	16656	14473	2183
	Group D (Other Class IV)	1529	960	569
	Other class IV (Supernumerary van majoor)	7752	7752	0
	Total (Group C + Group D + Other Class IV)	25937	23185	2752
	Total A,B,C,D and Other class IV	27849	24679	3170

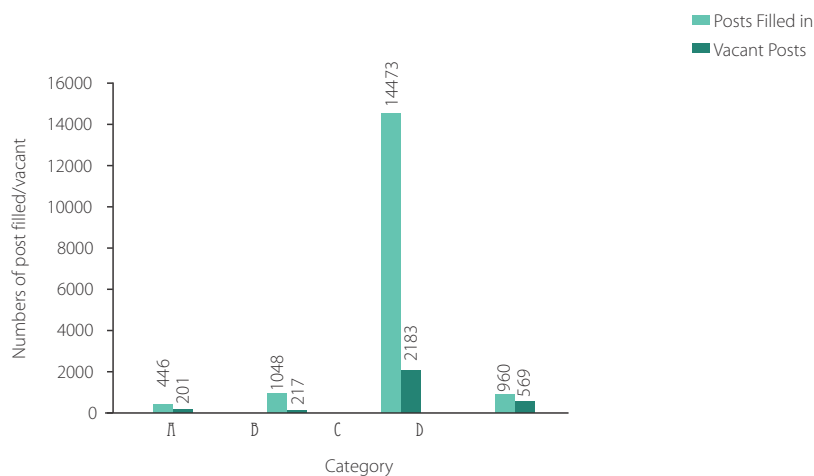
Source-APCCF(Administration-Subordinate Cadre)

The position of sanctioned posts in various categories during the year 2019-20 is as under :

Sr. No	Category	No. of Sanctioned posts	Posts filled in	posts vacant
1	Group A	647	446	201
2	Group B	1118	953	165
3	Group B (Non Gazetted)	147	95	52
4	Group C	16656	14473	2183
5	Group D	1529	960	569
	Total A, B, C, D	20097	16927	3170
	Other class IV	7752	7752	0
	Total	27849	24679	3170

Source-APCCF(Administration-Subordinate Cadre)

POSITION OF VACANCY IN FOREST DEPARTMENT



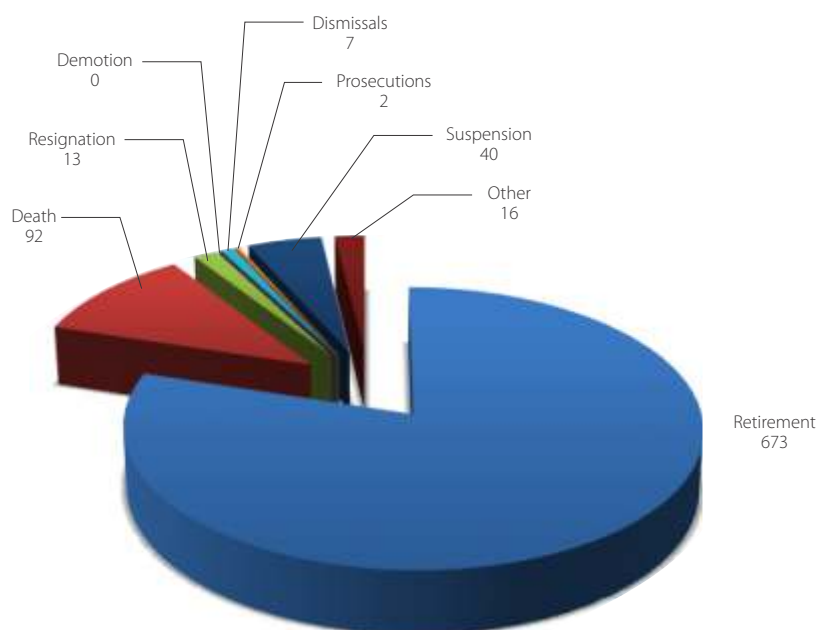
7.4 The information regarding retirement, casualties, and punishment inflicted during the year under report is as under.

TABLE-50

CASUALTIES AND PUNISHMENTS – 2019-20

Circle	Retire- ment	Death	Resign- ation	Demotion	Dismiss- als	Prosec- utions	Suspension	Others	Total
Thane	59	14	2	0	0	2	9	0	86
Nashik	77	9	2	0	0	0	0	6	94
Dhule	63	8	0	0	0	0	0	0	71
Pune	50	0	0	0	1	0	9	0	60
Kolhapur	44	4	1	0	2	0	6	0	57
Aurangabad	35	3	0	0	0	0	1	1	40
Amravati	53	7	0	0	1	0	7	0	68
Yavatmal	54	4	0	0	0	0	0	3	61
Nagpur	104	23	7	0	0	0	5	0	139
Chandrapur	41	3	0	0	0	0	1	0	45
Gadchiroli	57	16	1	0	3	0	2	2	81
Head Office	16	0	0	0	0	0	0	0	16
Mangrove cell Mumbai	3	0	0	0	0	0	0	0	3
T & M Ballarshah	17	1	0	0	0	0	0	4	22
Total	673	92	13	0	7	2	40	16	843

**CASUALTIES AND
PUNISHMENT**



7.5 Health of Staff

The forest staff generally maintains normal health throughout the year. Adequate medical facilities were provided to the staff working in bad climate and interior areas. The forest dispensaries, one at Tarubanda of West Melghat Division and other at Forest Ranger's College, Chikhaldara in Amravati circle are functioning, properly during the year under the report. It has also been decided to raise welfare funds i.e. Van Kalayan Nidhi for the betterment and welfare of Forest employees including officers and staff. This Van Kalayan Nidhi is being utilized for medical purposes as well as for providing insurance cover.

7.6 Inspection And Tours

The Principal Chief Conservator of Forests, Additional Principal Chief Conservator of Forests (All), Chief Conservator of Forests(All) visited the forest areas under their jurisdiction from time to time. They inspected the forest areas in the State. The territorial Conservator of Forests and Dy. Conservator of Forests & Divisional Forest Officers toured extensively in the forest areas in their jurisdiction and carried out spot inspections of various forestry works in progress during the year under the report.

TABLE-51

INFORMATION REGARDING RANGE, ROUND AND BEAT (2019-20)

Sr. No	Circle	Division	Sub-division	Total	No. of Ranges	No of Rounds	No. of Beat
1	2	3	4	5	6	7	8
			A)Teritorial Circles				
1	Thane	6	0	6	54	275	890
2	Nashik	3	2	5	35	117	386
3	Dhule	5	0	5	37	131	463
4	Pune	3	1	4	26	88	274
5	Kolhapur	5	0	5	38	126	414
6	Aurangabad	6	0	6	38	123	480
7	Amravati	4	0	4	21	80	354
8	Yavatmal	4	0	4	26	94	391
9	Nagpur	4	0	4	44	209	892
10	Chandrapur	3	0	3	19	69	275
11	Gadchiroli	5	0	5	37	166	736
	Total Tertorial Circle	48	3	51	375	1478	5555
	B) Wildlife Circles	13	0	13	93	289	1012
	Grand Total	61	3	64	468	1767	6567

CHAPTER – VIII



**DEVELOPMENT UNDER
ANNUAL PLAN**

CHAPTER – VIII

Development Under Annual Plan

8.1 An investment of Rs. 2033.65 Crores was made on annual plan under various developmental programmes implemented in forestry and related sectors. The targets and achievements under the various developmental works according to various activities are given below.

8.1.1 The Progress made under various schemes implemented by the Forest Department is described in Table 52.

TABLE - 52

**FINANCIAL TARGETS AND ACHIEVEMENTS
BREAKUP ACCORDING TO ACTIVITY GROUP (UNDER PLAN) FOR THE YEAR 2019-20**

Sr. No	NAME OF SCHEME	FINANCIAL (Rs. in lakh)	
		Target	Achievements
(A) 2406 FORESTRY AND WILDLIFE (GENERAL) (STATE)			
1	Exploitation By Govt Agency (Apta)	0.58	0.58
2	Exploitation By Govt Agency (Firewood)	364.27	364.27
3	Exploitation By Govt. Agency (Grass)	60.00	60.00
4	Pay Adivasi Khatedar Mah. Sale Tree By Occupants belonging to Scheduled Tribe Regulation Act 1969	255.16	255.16
5	Nature Conservation Wild Life Management and Nature Conservation Scheme	918.28	918.28
6	Joint Forests Management Scheme	1818.95	1818.95
7	Provision of Arms to Forest Staff (State)	0.00	0.00
8	Strengthening of Existing Wireless 52 Mobile Squads By Providing Additional Each (State)	99.38	99.38
9	Est. of Wild Animals Infirmaries (State)	189.18	189.18
10	Settlement of Right and Privileges Rehabilitation of Villages in NP, Sanctuaries (State)	1050.00	1050.00
11	Eco-Tourism (State)	2559.63	2559.63
12	Establishment of International Level Zoo at Goregaon, Arey Colony, Mumbai	60.00	60.00

Sr. No	NAME OF SCHEME	FINANCIAL (Rs. in lakh)	
		Target	Achievements
(A) 2406 FORESTRY AND WILDLIFE (GENERAL) (STATE)			
13	Computerization of Forest Department	478.72	478.72
14	Strengthening of State Biodiversity Board	525.00	525.00
15	Dr. Shyama Prasad Mukherjee Jan-Van Vikas Yojana	2962.31	2962.31
16	National Bamboo Mission	284.73	284.73
17	Establishment of Maharashtra State Zoo Authority (General)	89.83	89.83
18	Establishment of Maharashtra Eco Tourism Board	37.27	37.27
19	Establishment of Maharashtra Bamboo Development Board	276.24	276.24
20	Eco-Taskforce	959.97	959.97
	TOTAL - A	12989.50	12989.50
(B) CENTRALLY SPONSORED SCHEMES			
1	Modern Forest fire Control And Management	206.60	206.60
2	Wildlife Management And Protection	339.80	339.80
3	Project Tiger	2121.97	2121.97
4	Project Tiger (50% State Share)	1422.41	1422.41
5	Project Tiger (Non Recurring) (60%)	3447.64	3447.64
6	Project Tiger (Non Recurring) (50%)	1444.89	1444.89
7	Project Elephant	18.72	18.72
8	Project Elephant (60%)	24.77	24.77
9	Integrated Development of Wild Life Habitats (50% State Share)	79.23	79.23
10	Integrated Development of Wildlife Habitat (60%)	427.87	427.87
11	Integrated Forest Management Scheme (60%)	319.44	319.44
12	National Bamboo Mission (60%)	427.10	427.10
13	Integrated Development of Wildlife Habitat (60%) (Schedule Caste Sub Plan)	118.20	118.20
	TOTAL- B	10398.64	10398.64
(C) 2406 FORESTRY AND WILDLIFE SFD (STATE) GENERAL			
1	Management of Bio diversity around the Water bodies in the state	15.23	15.23
2	Pandit Dindayal Upadhaya, Van Udyan with Bal Vidnyan Bhavan For Conservation of Biodiversity on Forest and Nonforest Land and Nature Protection	469.45	469.45
3	Establishment of Botanical Garden on Chandrapur-Ballarpur Road District Chandrapur	2090.30	2090.30

Sr. No	NAME OF SCHEME	FINANCIAL (Rs. in lakh)	
		Target	Achievements
(C) 2406 FORESTRY AND WILDLIFE SFD (STATE) GENERAL			
4	Van Mahotsav	3867.89	3867.89
5	Motivation, Extension And Training	2662.69	2662.69
6	Protection of Coastal Area Through Afforestation	17.28	17.28
7	Dr.Babasaheb Ambedkar Standardization And Modernization of Central Nurseries	2113.04	2113.04
8	Student Harit Sena	132.00	132.00
	TOTAL-C	11367.88	11367.88
(D) 4406 FORESTRY AND WILDLIFE SFD (STATE) GENERAL			
1	Roadside/Canal side/Rail side Plantation	58068.47	58068.47
2	Greening of Degraded Hills	304.36	304.36
	TOTAL-D	58372.83	58372.83
(E) 2406 FORESTRY AND WILDLIFE (TRIBAL SUB PLAN)(STATE)			
1	National Bamboo Mission (40%)	104.73	104.73
2	National Bamboo Mission (60%)	157.09	157.09
	TOTAL-E	261.82	261.82
(F) 2406 FORESTRY AND WILDLIFE (STATE) SCP			
1	Distribution of Cooking Gas And Solar Cooker To Scheduled Caste In Protected Forest Areas	1092.43	1092.43
	TOTAL-F	1092.43	1092.43
(G) 2406 FORESTRY AND WILDLIFE (GENERAL) (District)			
1	Central Nursery	2733.48	2733.48
2	Development of Forest Tourism / Eco tourism	4184.94	4184.94
3	Joint Forest Management	1615.54	1615.54
4	Management of Wild Life and Nature Conservation Scheme	4854.01	4854.01
5	Reafforestation of Degraded Forest	9881.82	9881.82
	TOTAL-G	23269.79	23269.79
(H)2406 FORESTRY AND WILDLIFE (TSP)(District)			
1	Establishment of Central Nurseries	272.97	272.97
2	Forest preservation from fire	462.58	462.58
3	Joint Forest Management	371.89	371.89
4	Reafforestation of Degraded Forest	1027.89	1027.89
	TOTAL- H	2135.32	2135.32

Sr. No	NAME OF SCHEME	FINANCIAL (Rs. in lakh)	
		Target	Achievements
(I) 2406 FORESTRY AND WILDLIFE (OTSP) (District)			
1	Establishment of Central Nurseries	30.00	30.00
2	Forest preservation from fire	31.70	31.70
3	Joint Forest Management	17.51	17.51
4	Reafforestation of Degraded Forest	81.97	81.97
	TOTAL- I	161.18	161.18
J) 4406 FORESTRY AND WILDLIFE (GENERAL) (STATE)			
1	Forest Buildings.	1315.01	1315.01
2	Survey Settlement And Demarcation of Forest	342.03	342.03
3	Scheme Financed From Development Tax	196.66	196.66
4	Massive Afforestation. Programme	38236.06	38236.06
5	Construction of Vantalis	155.38	155.38
6	Construction of Protection Wall In Sanjay Gandhi National Park (State)	240.00	240.00
7	Preliminary Works of Proposed Zoo At Gorewada	1199.99	1199.99
	TOTAL -J	41685.12	41685.12
(K) 4406 FORESTRY AND WILDLIFE (GENERAL) (District)			
1	Forest Buildings	2841.34	2841.34
2	Forest Roads & Bridges	952.76	952.76
3	Soil and water conservation Works in the Forests	19853.94	19853.94
	TOTAL- K	23648.04	23648.04
(L) 4406 FORESTRY AND WILDLIFE (TSP)(District)			
1	Construction of water ponds	2578.51	2578.51
2	Development of Minor Forest Produce	486.55	486.55
3	Plantation of forest species for industrial and commercial uses	553.03	553.03
4	Plantation Programme	320.22	320.22
5	Soil and water conservation Works in the Forests	25.00	25.00
6	Forest Buildings	2.97	2.97
	TOTAL-L	3966.28	3966.28
(M) 4406 FORESTRY AND WILDLIFE (OTSP)(District)			
1	Construction of water ponds	241.08	241.08
2	Development of Minor Forest Produce	32.32	32.32
3	Plantation of forest species for industrial and commercial uses	60.76	60.76
4	Plantation Programme	58.64	58.64
	TOTAL-M	392.80	392.80

Sr. No	NAME OF SCHEME	FINANCIAL (Rs. in lakh)	
		Target	Achievements
(N) 2415 AGRICULTURE RESEARCH AND EDUCATION (STATE) GENERAL			
1	Kundal Academy of Development, Administration And Management (Forest)	379.32	379.32
2	Chandrapur Forestry Academy of Administration, Development & Management, Chandrapur	1846.84	1846.84
	TOTAL-N	2226.16	2226.16
(O) 4415 CAPITAL OUTLAY ON AGRICULTURE RESEARCH AND EDUCATION (STATE) GENERAL			
1	Research Station And Experimental Trials And Field Trials	30.00	30.00
2	Training of Forest Staff (state)	142.62	142.62
3	Bamboo Research And Training Center, Chichpalli, Dist. Chandrapur	2243.70	2243.70
	TOTAL-O	2416.32	2416.32
(P) 9999 DISTRICT GENERAL			
1	Compensation to the Farmers for Losses Caused by the Wildlife	290.91	290.91
2	Protection of Forests	3659.10	3659.10
3	Village Eco-development and Tribal Development	340.91	340.91
4	Jalyukta Shivar	2485.83	2485.83
5	New Scheme	1522.38	1522.38
	TOTAL - P	8299.12	8299.12
(Q) DISTRICT OTHER SCHEMES			
1	LPG	532.33	532.33
2	New Scheme	149.76	149.76
	TOTAL - Q	682.09	682.09
	Grand Total of Plan Schemes (A to Q)	203365.32	203365.32

CHAPTER – IX



WELFARE ACTIVITIES FOR BACKWARD CLASSES

CHAPTER – IX

Welfare Activities For Backward Classes

9.1 The forest management in the state has always given due consideration to amelioration of living and economic condition of people inhabiting in forest areas. Adiwasis, forest dwellers and other backward classes who form bulk of this population were the principal beneficiaries and forestry operations provided employment on large scale to adiwasis, forest dwellers and backward class people. The forest department made sustained efforts towards the welfare of these backward people through measures like addressing to their essential needs of forest produce like small timber, fuel and grazing facilities and also provided amenities like schools, dispensaries, labour shed, and drinking water facilities to the extent possible.

9.1.1 Concession in respect of forest and forest produce

The dwellers in villages situated in or near the forest tracts were granted concessions and privileges in respect of use

of forest and removal of various forest produce there from. Under “Nistar policy” forest produce from the coupes under exploitation was made available at concessional rates. The coupes are annually selected by the forest officers & special conditions of nistar were applied to those coupes in consultation with the Forest Labourer’s Co-operative Societies to supply the quantity of nistar material to people in forest during exploitation of coupes allotted to them. In addition to this, left over and waste timber, fallen and dead fuel wood were allowed to be removed free for domestic use as well as on permit basis at concessional rates for small house hold industries. Under grazing settlement, free grazing is allowed to agricultural cattle up to limit of eight cattle units per family.

Estimated quantity and value of forest produce given away free or at concessional rates (including Nistar) by Forest Department during the year 2019-20 is as below.

TABLE-53

SUPPLY OF FOREST PRODUCE UNDER 'NISTAR' FREE OR AT CONCESSIONAL RATES

(The period of supply is 1 Oct to 30 Sept every year)

Sr. No	Forest Produce	Unit	Quantity Supplied	Value of Forest Produce (Including Nistar) (Rs.in Lakh)	No. of Beneficiaries
1	Non-Teak pole	Nos	0	0	0
2	Teak Pole	Nos	0	0	0
3	Firewood	Beat	13718.78	58.77	12206
		Quintal	1441.65	16.3	921
4	(I) Bamboo (Burad)	Nos	636480	91.99	4763
	II) Bamboo (Kastkar)	Nos	55432	7.95	2118
	Chapati Bamboo	No.s	157738	21.37	2930
	Karkuranzi Bamboo	No.s	4450	0.48	194
	Total			196.86	23132

Source-DCF (Resource Utilisation)

9.2 Employment of Labour

Various forestry works executed by the department provided employment on large scale especially to adiwasis and backward class people who were residing near and in the forest areas. Total labour employment during 2019-20 (including activities like Western Ghat Development, RVP & EGS) was broadly assessed at 39210.76 thousand man-days as given in Table No. 30 of Chapter IV. The laborers were paid wages as per Wage Board sanctioned rates.

9.3 Grant of 7% of Forest Revenue to Zilla Parishad

An amount of Rs.5.83 crores of forest revenue was given to Zilla Parishads as grant-in-aid by Govt. for such works as development of village forests, grazing lands, construction & maintenance of roads in forest areas, provision of medical relief & drinking water facilities, construction of public buildings and small rooms etc.

7% Grants to Z.P. for the year 2019-20

(Rs. In Lakh)

Sr. No	Circle	Division	Name of Z.P.	Total Grants
1	Nagpur	Nagpur	Nagpur	12.03
		Wardha	Wardha	11.05
		Bhandara	Bhandara	6.65
		Gondia	Gondia	0
2	Amravati	Amravati	Amravati	188.86
		Buldhana	Buldhana	1.68
3	Yavatmal	Yavatmal	Yavatmal	41.98
		Akola	Akola	0
		Akola	Washim	0.91
4	Chandrapur	Central Chanda	Chandrapur	52.25
5	Gadchiroli	Gadchiroli	Gadchiroli	247.99
6	Pune	Pune	Pune	0.5
		Solapur	Solapur	0.13
7	Thane	Thane	Thane	6.13
		Alibag	Raigad	1.6
		Thane	Palghar	0
8	Nashik	Nashik	Nashik	1.78
		Ahmadnagar	Ahmadnagar	0.35
9	Dhule	Dhule	Dhule	0.07
		Nandurbar	Nandurbar	0.06
		Jalgaon	Jalgaon	0.51
10	Kolhapur	Kolhapur	Kolhapur	2.36
		Satara	Satara	0.77
		Sawantwadi	Sindhudurg	1.04
		Sangali	Sangali	0.14
		Chiplun	Ratnagiri	0.94

(Rs. In Lakh)

Sr. No	Circle	Division	Name of Z.P.	Total Grants
11	Aurangabad	Aurangabad	Aurangabad	0
		Aurangabad	Jalna	0
		Nanded	Nanded	3.18
		Beed	Beed	0.13
		Osmanabad	Osmanabad	0
		Latur	Latur	0.21
		Parbhani	Parbhani	0.28
		Parbhani	Hingoli	0.29
		Total		583.87

9.4 Forest Labourers Co-operative Society

9.4.1 The circle-wise position in respect of working of Forest Labour Co-operative Societies during 2019-20 was as under:-

Sr. No	Circle	Number of Societies	No. of Coupes Worked	Total Realization (Rs. In Lakh)
1	Nashik	33	0	0
2	Dhule	5	0	0
3	Yavatmal	29	46	664.52
4	Nagpur	68	56	2357.88
5	Chandrapur	5	2	205.44
6	Gadchiroli	32	34	3425.13
7	Amravati	15	22	0
	Total	187	160	6652.97

** Remaining Circles value are nil

9.5 Achievement under Tribal Sub-Plan

Various forestry works under different plan schemes were undertaken by the Forest Department under Tribal Sub Plan in 2019-20. Achievements are given below.

TABLE-54

Achievement Under Tribal Sub Plan - for 2019-20

Sr. No	Scheme / Programme	Sector	Description of Physical works carried out.	Financial Achievement (in Lakhs)
1	2	3	4	5
1	Plantation of species for General use	TSP (District)	Committed works. PPO Works	381.08
		OTSP(District)	Committed works. PPO Works	104.67
2	Construction of stone check dam	TSP(District)	--	1724.38
		OTSP(District)	--	462.78
3	Reforestation of Degraded Forest	TSP(District)	Committed works . PPO Works	982.11
		OTSP(District)	Committed works PPO Works	53.93
4	Establishment of Central Nurseries	TSP(District)	Strengthening of Central Nursery	269.19
		OTSP(District)	Strengthening of Central Nursery	30
5	Joint Forest Management	TSP(District)	Committed works. PPO Works	373.95
		OTSP(District)	Committed works PPO Works	184.35
6	Plantation Programme	TSP(District)	Committed works. PPO Works .	35.70
		OTSP(District)	Committed works PPO Works	1.09
7	Forest Protection from Fire	TSP(District)	Fireline works	399.99
		OTSP(District)	Fireline works	31.70
8	Development of Minor Forest Produce	TSP(District)	Committed works PPO Works	46.09
		OTSP(District)	Committed works PPO Works	0
9	Forest Building, Roads and Bridges	TSP(District)	Construction of Forest Building, Roads and Bridges	2.97
10	Amenities to staff and labour	TSP(District)	Construction Building, Supply of Drinking water	20.00
11	New Scheme	TSP(District)	--	45.58
12	Supply of Cooking Gas and Solar cooker to schedule tribe beneficiaries	TSP(District)	Supply of cooking gas	445.89
		OTSP(District)	Supply of cooking gas	273.58
13	Fodder Development	TSP(District)	Fodder Development work	349.07
14	Soil and Water Conservation Works	TSP(District)	Soil and Water Conservation Works in the Forests	463.82
	TOTAL (District Plan)	Total TSP(District)		5539.82
		Total OTSP(District)		1142.10
		Grand TOTAL		6681.92

9.6 Trading of Forest Produce through the Tribal Development Corporation of Maharashtra. Ltd.

In the Tribal areas, where provisions of Maharashtra Tribal Economic Conditions Improvement Act, 1976 are in force, trading of hirda, gum, moha seeds and flowers & other minor forest produce governed under the said Act was done by government through the Maharashtra State Tribal Development Corporation. The Tribal Development Corporation collects the forest produce in the tribal areas through its purchase centers located in various districts.

9.7 The Maharashtra Felling of Trees by occupants belonging to Scheduled Tribes (Regulation) Act, 1964.

9.7.1 The Govt of Maharashtra has amended this act in 1989 vide notification no. TRS-1089/1490/CR-32/89/F-6,

dated 26/11/1989 and the R.F.O. is empowered to work as "Tree Officer" for regularization of certain trees within his jurisdiction.

If any person wishes to fell trees other than the scheduled trees, then permission from concerned Tahsildar is sought under the provision of Section 25 of Maharashtra Land Revenue Code 1966 which states that trees on the banks of river, nallah & streams are to be retained and retention of 20 trees per acre is the criterion for reservation.

For the breach of the provision of this act, punishment not exceeding of Rs. 1000/- along with the forfeiture of the felled material and the tools used for exploitation along with bullock cart & other equipment etc.

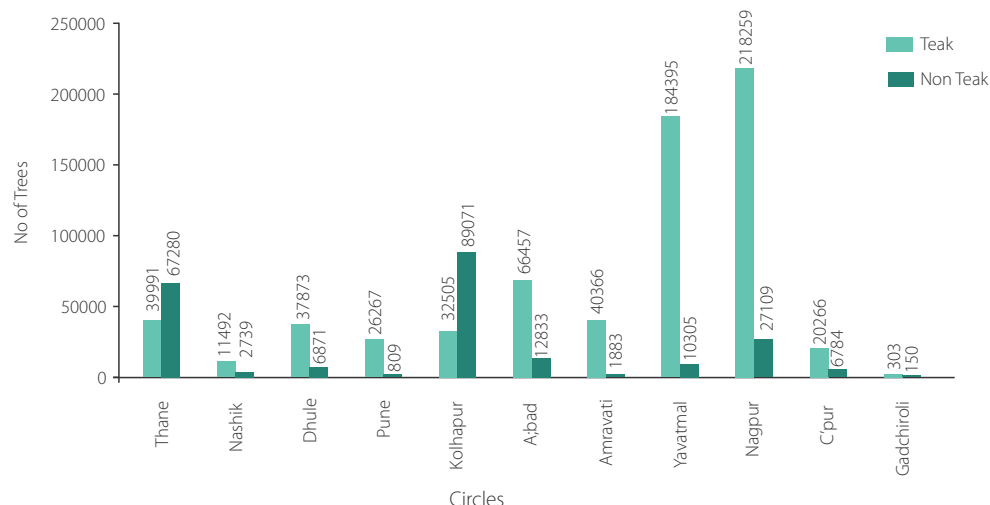
The progress made in respect of Maharashtra Felling of Trees (Regulation) Act 1964 is given in Table 55.

TABLE-55

NO. OF CASES PERMITTED FOR FELLING UNDER MAHARASHTRA FELLING OF TREES (REGULATION) ACT 1964 (REVISED)

Sr. No	Circles	No. of cases permitted for felling	No. of trees permitted for felling		
			Teak	Other	Total
1	Thane	308	39991	67280	107271
2	Nashik	79	11492	2739	14231
3	Dhule	227	37873	6871	44744
4	Pune	120	26267	809	27076
5	Kolhapur	1298	32505	89071	121576
6	Aurangabad	913	66457	12833	79290
7	Amravati	1107	40366	1883	42249
8	Yavatmal	990	184395	10305	194700
9	Nagpur	3167	218259	27109	245368
10	Chandrapur	445	20266	6784	27050
11	Gadchiroli	9	303	150	453
	Total 2019-20	8663	678174	225834	904008
	2018-19	13458	858013	324727	1182740

NUMBER OF TREES PERMITTED FOR FELLING ON PRIVATE LAND



9.8 The Maharashtra Sale of trees by occupants belonging to Scheduled Tribes (Regulation) Act 1969.

9.8.1 Where it was necessary to regularize the disposal of trees standing in the holdings of persons belonging to scheduled tribes in the State of Maharashtra and to provide for matters concerned therewith, this act was enacted from 3rd March 1969 to safeguard the interest of poor and ignorant tribals.

9.8.2 As per the provision of this act, in case of Adivasi Malki cases, the felling of trees, transportation, sales etc. are carried out departmentally and the sales proceeds are transferred to the tribals after deducting the expenditure incurred by the Govt. It also provided for payment of the 50% amount of the approximate cost of the material

extracted as a part advance payment through crossed cheques.

9.8.3 This act was amended in 1991 vide ordinance of 14th Feb. 1991 and the section 4 of this Act was deleted due to which all past contracts before the appointed day i.e. 3rd March 1969 stood cancelled.

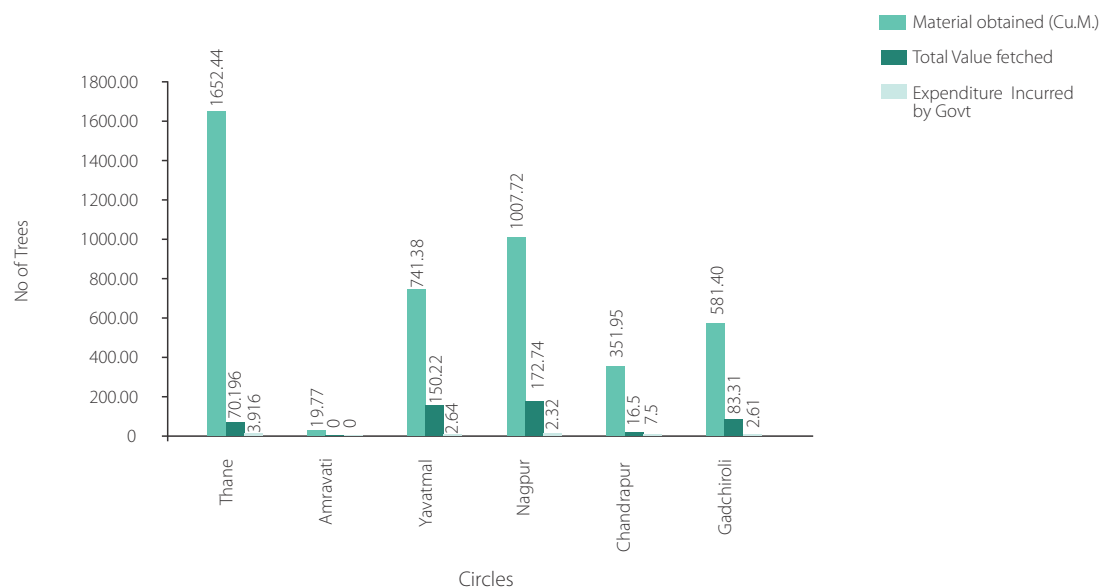
In this way the involvement of the contractors in such timber business is reduced and the misuse is avoided. Now it is possible to pay the maximum amount to tribals through Govt. by way of Departmental Sales. The progress made in this respect is given in the table -56.

TABLE-56

MAHARASHTRA SALE OF TREES BY OCCUPANTS BELONGING TO SCHEDULED TRIBE REGULATION ACT-1969

Sr. No	Circles	Total Nos. Cases received	No. of Cases disposed off	Material obtained (Cu.M.)	Total Value fetched (Rs.in Lakhs)	Expenditure Incurred by Govt (Rs.in Lakhs)	Amount paid to Adivasi occupants (Rs.in Lakhs)
1	2	3	4	5	6	7	8
1	Thane	13	9	1652.44	70.196	3.916	66.28
2	Amravati	5	4	19.77	0	0	0
3	Yavatmal	184	144	741.38	150.22	2.64	147.58
4	Nagpur	117	93	1007.72	172.74	2.32	170.42
5	Chandrapur	78	54	351.953	16.5	7.5	9
6	Gadchiroli	9	9	581.40	83.31	2.61	80.7
	TOTAL 2019-20	406	313	4354.665	492.966	18.986	473.98

MAHARASHTRA SALE OF TREES BY OCCUPANTS BELONGING TO SCHEDULED TRIBE REGULATION ACT-1969



9.8.4 For breach of provision of this act, there is a provision for fine to the extent of Rs. 2000 /- or with added imprisonment for a term, which may extend to six months and trees felled, if any, in contravention of this act, may be confiscated by order of the Court.

CHAPTER – X



GENERAL

CHAPTER – X

General

10.1 Acquisition of Private Forests:

10.1.1. In order to ensure comprehensive protection of private forest & their scientific management, Government of Maharashtra enacted the Maharashtra Private Forest (Acquisition) Act, 1975. These forests attained the status of "Reserved Forest" from the date of enforcement of the act and came to be vested with the

state. This Act was amended in 1978 whereby the land to the extent of 12 ha. or less was restored to erstwhile owners whose holding stood less than 12 ha. At the end of the year under report the following was the position of some private forests brought under possession of the Forest Department.

TABLE-57

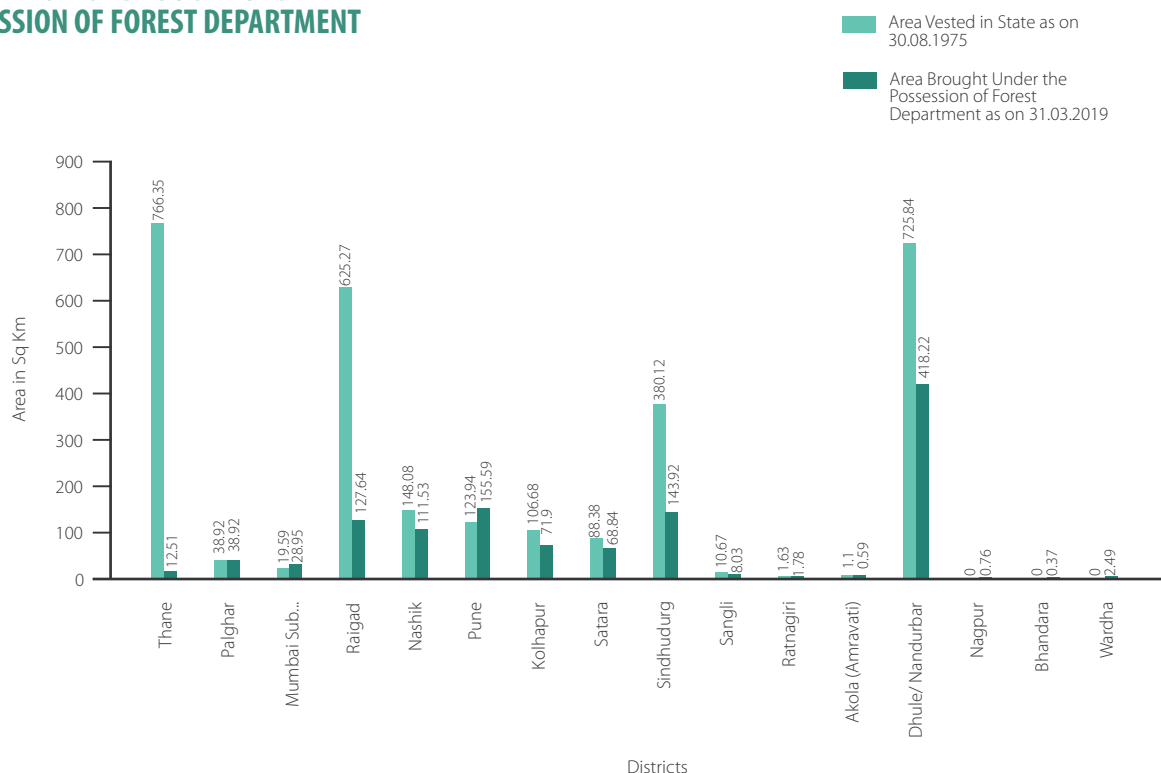
PRIVATE FOREST BROUGHT UNDER POSSESSION OF FOREST DEPARTMENT

(Area in Sq. Km.)

Sr. No	District	Area vested in state as on 30.8.1975	Area brought under the possession of Forest Department as on 31.03.2020
1	2	3	4
1	Thane	805.27	12.51
2	Palghar		38.92
3	Mumbai Sub-urban/City	19.59	28.95
4	Raigad	625.27	127.64
5	Nashik	148.08	111.53
6	Pune	123.94	155.59
7	Kolhapur	106.68	71.9
8	Satara	88.38	68.84
9	Sindhudurg	380.12	143.92
10	Sangli	10.67	8.03
11	Ratnagiri	1.63	1.78
12	Akola (Amravati circle)	1.1	0.59
13	Dhule/ Nandurbar	725.84	418.22
14	Nagpur	0	0.76
15	Bhandara	0	0.37
16	Wardha	0	2.49
	Total	3036.57	1192.04

Source :- APCCF (Conservation)

PRIVATE FOREST BROUGHT UNDER POSSESSION OF FOREST DEPARTMENT



10.2 State Monopoly Trading of Bidi Leaves

10.2.1. Performance of programme of collection and sale of bidi leaves (Tendu & apta) during 2019-20 under the provisions of Maharashtra Minor Forest Produce (Regulation of Trade) Act, 1969 was as under

Tendu Units			
Sr. No	Discription of Units	2019 Season	2020 Season
1	Number of units /Group of units sold by tender	159	129
2	Number of units /Group of units sold by negotiation	45	15
3	Number of units /Group of units sold to societies	0	0
4	Number of Unproductive units /Group of units	77	135
5	Number of units /Group of units worked departmentally.	0	0
	Total	281	279
Collection and Sale of Tendu Leaves Under PESA			
1	Number of units /Group of units sold by tender	29	23
2	Number of Unproductive units /Group of units	8	23
	Total	37	46

APTA UNITS			
Sr. No	Discription of Units	2019 Season	2020 Season
	The position of disposal of Apta units was as follows		
1	Number of units sold by tender	7	6
2	Unproductive units	7	6
	Total	14	12

Source- APCCF (NTFP)

10.2.2 Bonus Distribution for Tendu leaves collection

Amount of bonus distributed to the families collecting Tendu leaves in the year 2017, 2018 & 2019 is as follows.

Year	Royalty (Rs. in Crore)	Administrative Expenditure (Rs.in Crore)	No.of tendu leave collect- ors in '000'	Bonus wages (Rs. In Crore)	Status of Bonus distribution	
					No.of tendu leave collect- ors in '000	Bonus wages distributed (in Crore)
1	2	3	4	5	6	7
2019*	39	28	183	11	121	7.3
2018*	51	20.22	152	30.43	148	30.26
2017	160.038	17.01	203	143.02	199	140.45

* figures are provisional

Source- Figures as per report by APCCF(NTFP), M. S. Nagpur

TENDU BONUS



10.3 Forest Conservation Act, 1980

10.3.1 This Act came into force from 25.10.1980 with a view to ensure that no forest land is used for non-forestry purpose except with the prior approval of the Central Government. The proposals under purview of this act, received from the project authorities, are submitted to Central Govt. through proper channel.

Position of proposals received, sanctioned, pending and the area involved during the year 2019-20 is given in Table 58.

TABLE-58

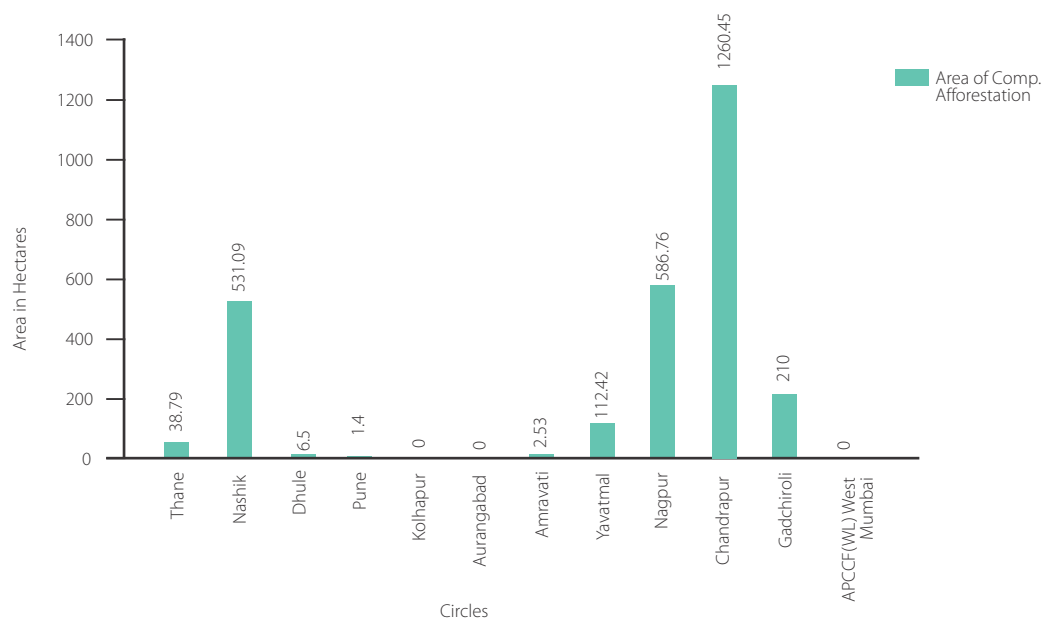
PROPOSALS RECEIVED AND DISPOSED OF DURING THE YEAR 2019-20 UNDER FOREST CONSERVATION ACT 1980

(Area in Ha.)

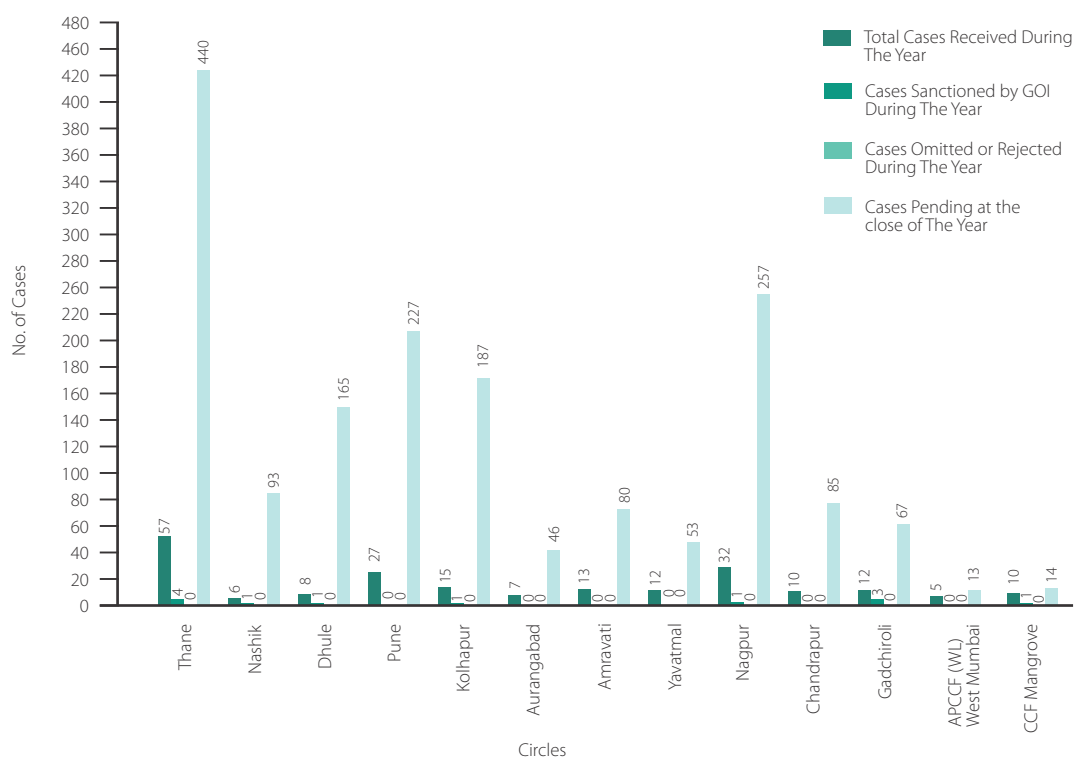
Sr No.	Circle	Pending Cases to the end of previous year		Cases received during the year		Total		Cases sanctioned by GOI during the year		Cases omitted or rejected during the year		Total Cases disposed of during the year		Cases pending at the close of the year		Area of comp. Afforestation (FYO)	Expdt. incurred on Comp. Afforestation (FYO)
		No. of cases	Area invol-ved	No. of cases	Area invol-ved	No. of cases	Area invol-ved	No. of cases	Area invol-ved	No. of cases	Area invol-ved	No. of cases	Area invol-ved	No. of cases	Area invol-ved		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Thane	387	15079.7	57	1152.7	444	16232.38	4	27.034	0	0	4	27.034	440	16205.3	38.79	17.95
2	Nashik	88	18233.23	6	53.175	94	18286.4	1	7.89	0	0	1	7.89	93	18278.5	531.09	283.7
3	Dhule	158	6874.516	8	275.4	166	7149.919	1	94.95	0	0	1	94.95	165	7054.97	6.5	4.23
4	Pune	200	1172.446	27	562.58	227	1228.704	0	0	0	0	0	0	227	1228.7	1.4	0.68
5	Kolhapur	173	4791.245	15	388.9	188	5180.15	1	4.9	0	0	1	4.9	187	5175.25	0	0
6	A'bad	39	1032.268	7	178.38	46	1210.646	0	0	0	0	0	0	46	1210.65	0	0
7	Amravati	67	527.2601	13	204.46	80	731.7241	0	0	0	0	0	0	80	731.724	2.53	1.1
8	Yavatmal	41	1536.942	12	471.46	53	2008.404	0	0	0	0	0	0	53	2008.4	112.42	95.75
9	Nagpur	226	11825.92	32	961.56	258	12787.48	1	6.53	0	0	1	6.53	257	12780.9	586.76	310.34
10	Chandrapur	75	4569.591	10	861.26	85	5430.851	0	0	0	0	0	0	85	5430.85	1260.45	749.65
11	Gadchiroli	58	4179.966	12	285.44	70	7034.386	3	68.07	0	0	3	68.07	67	6966.32	210	112.53
12	APCCF (WL) West Mumbai	8	1071.768	5	26.671	13	1098.439	0	0	0	0	0	0	13	1098.44	0	0
13	CCF Mangrove	5	6.2305	10	45.258	15	51.4889	1	0.9883	0	0	1	0.9883	14	50.5006	0	0
Total		1525	70901	214	7530	1739	78431	12	210.36	0	0	12	210.36	1727	78221	2749.9	1576

Source: APCCF & Nodal Officer, M.S. Nagpur

AREA OF COMP. AFFORESTATION



PROPOSALS RECEIVED, SANCTIONED, REJECTED, PENDING DURING 2019-20 UNDER FOREST CONSERVATION ACT 1980



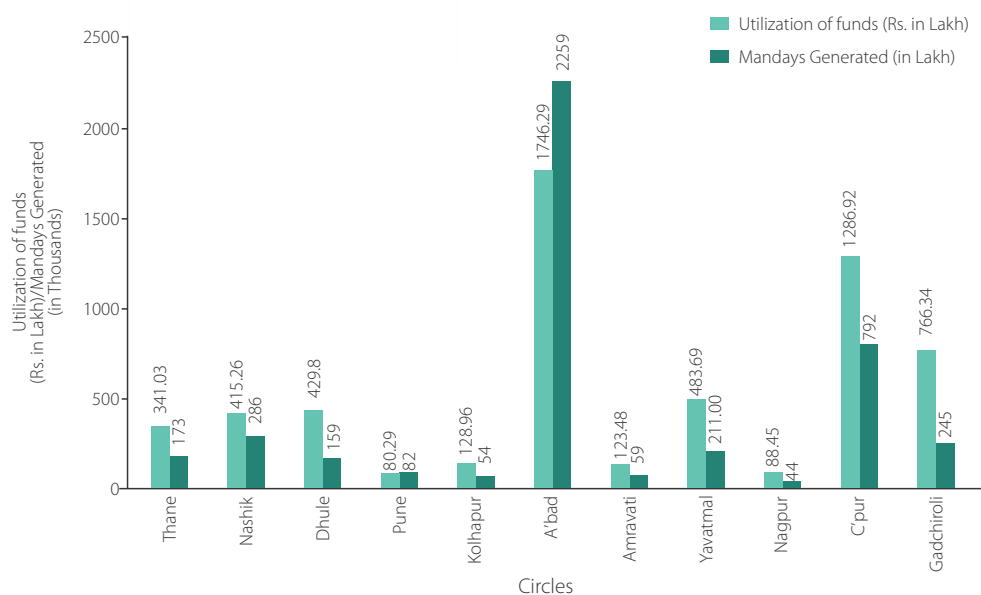
10.4 Employment Guarantee Scheme

The object of the scheme was to provide productive employment to the rural people with a view to alleviate the problem of rural poverty. Various forestry works such as plantation, afforestation and soil conservation, departmental working of forest roads etc. were undertaken from the funds provided from the scheme. The circle-wise utilization of funds was as under.

TABLE-59**EXPENDITURE INCURRED UNDER MAHARASHTRA RURAL
EMPLOYMENT GUARANTEE SCHEME***(Area in Sq. Km.)*

Sr. No	Circles	Utilization of funds (Rs. in Lakh)	Mandays Generated (in Lakh)
1	2	3	4
1	Thane	341.03	1.73
2	Nashik	415.26	2.86
3	Dhule	429.8	1.59
4	Pune	80.29	0.82
5	Kolhapur	128.96	0.54
6	Aurangabad	1746.29	22.59
7	Amravati	123.48	0.59
8	Yavatmal	483.69	2.11
9	Nagpur	88.45	0.44
10	Chandrapur	1286.92	7.92
11	Gadchiroli	766.34	2.45
	Grand Total	5890.51	43.64

Source- PCCF Budget Section

**EXPENDITURE
INCURRED
UNDER MREGS****10.5 Encroachment on Forest Land**

10.5.1 The problem of encroachment on Forest land was a result of land hunger and was causing serious concern to forest administration. The encroachments were more or less observed to be existing in all the circles. The details of forest area under encroachment and encroachment

removed / regularized there from are given in Table 60.

Similarly claims settled under Tribal Act-2006 at gram sabha level, sub-divisional level and district level is shown in Table 61.

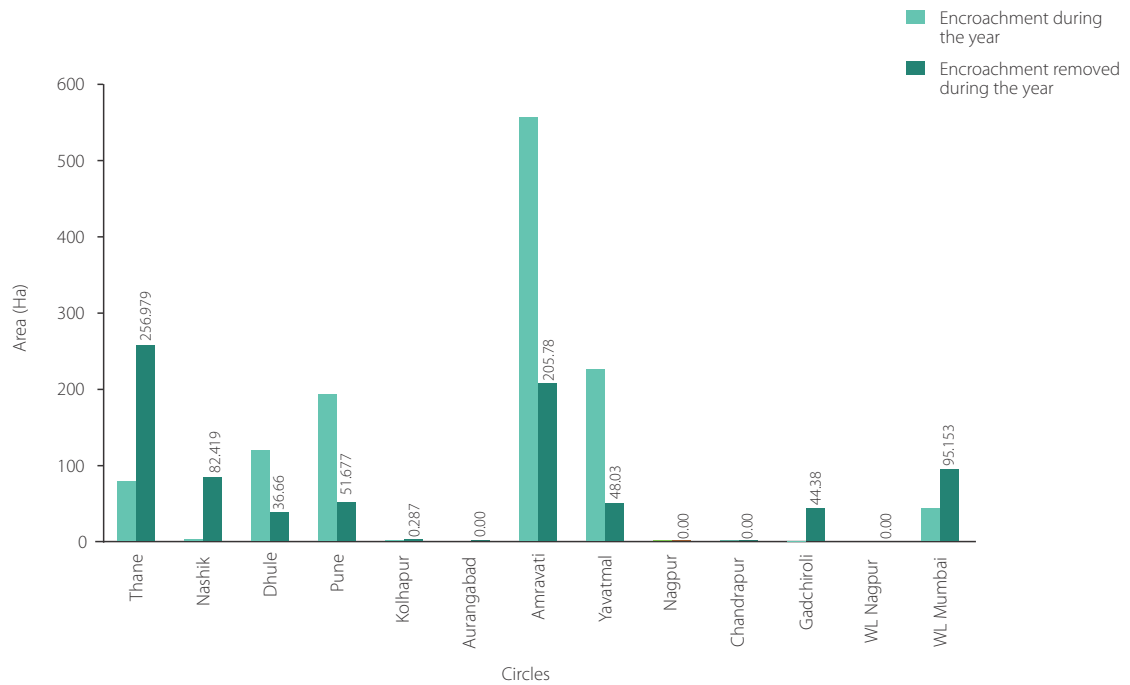
TABLE-60

ENCROACHMENT IN THE FOREST AREA DURING THE YEAR 2019-20

(Area in Ha.)

Sr No.	Circle	Area under encroachment as on 1.4.2018		Encroachment made during the year		Total Encroachment during the year		Encroachment removed during the year		Area under encroachment as on 31.03.2019	
		No. of cases	Area	No. of cases	Area	No. of cases	Area	No. of cases	Area	No. of cases	Area
1	2	3	4	5	6	7	8	9	10	11	12
1	Thane	50055	985.755	1167	77.166	51222	1062.921	2955	256.979	48267	805.942
2	Nashik	9689	3866.717	12	1.64	9701	3868.357	483	82.419	9218	3785.938
3	Dhule	15155	20757.052	68	117.807	15223	20874.859	23	36.66	15200	20838.199
4	Pune	2249	199.285	203	193.596	2452	392.881	33	51.677	2419	341.204
5	Kolhapur	2128	166.106	11	0.191	2139	166.297	5	0.287	2134	166.01
6	Wildlife Mumbai	33697	6270.355	296	44.651	33993	6315.006	335	95.153	33658	6219.853
	Total A	112973	32245.27	1757	435.051	114730	32680.32	3834	523.175	110896	32157.15
7	Aurangabad	3772	6484.633	0	0	3772	6484.633	0	0	3772	6484.633
	Total B	3772	6484.633	0	0	3772	6484.633	0	0	3772	6484.633
8	Amravati	1994	1526.548	872	555.56	2866	2082.108	321	205.78	2545	1876.328
9	Yavatmal	1980	2086.758	152	225.29	2132	2312.048	45	48.03	2087	2264.018
10	Nagpur	3573	2906.18	0	0	3573	2906.18	0	0	3573	2906.18
11	Chandrapur	5159	4624.657	0	0	5159	4624.657	0	0	5159	4624.657
12	Gadchiroli	5788	7252.669	0	0	5788	7252.669	31	44.38	5757	7208.289
13	Wildlife Nagpur	2796	2537.136	0	0	2796	2537.136	0	0	2796	2537.136
	Total C	21290	20933.95	1024	780.85	22314	21714.8	397	298.19	21917	21416.61
	Grand Total	138035	59663.85	2781	1215.901	140816	60879.75	4231	821.365	136585	60058.39

ENCROACHMENT MADE AND REMOVED DURING THE YEAR 2019-20



STATUS OF ENCROACHMENT ON FOREST LAND AS ON 31 MARCH 2020

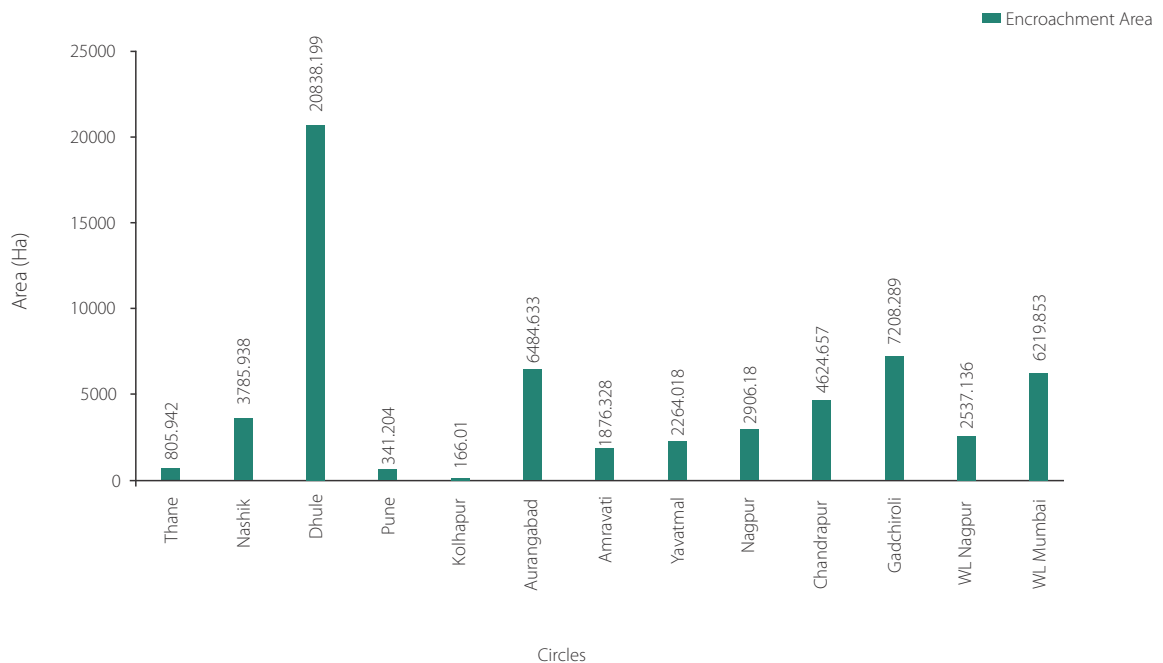


TABLE-61

CLAIMS SETTLED UNDER FOREST RIGHT ACT-2006 (Feb 2020)

(Area in Ha.)

Sr No.	Particulars	Individual			Community			Total		
		Tribal	OTFD	Total Individual	Tribal	OTFD	Total Community	Tribal	OTFD	Total
1	Total no.of. cases received at Gram Sabha Level	262447	104840	367287	7825	4156	11981	270272	108996	379268
2	No.of cases rejected by Gram Sabha	33898	18067	51965	31	85	116	33929	18152	52081
3	No. of cases pending with Gram Sabha	1206	557	1763	649	27	676	1855	584	2439
4	No. of cases recommended to SDLC(=(1)-(2+3))	227343	86216	313559	7145	4044	11189	234488	90260	324748
5	No. of cases rejected by SDLC	111709	67190	178899	715	784	1499	112424	67974	180398
6	No. of cases pending with SDLC	2929	622	3551	536	309	845	3465	931	4396
7	No. of cases recommended to DLC(=(4)-(5+6))	112705	18404	131109	5894	2951	8845	118599	21355	139954
8	No. of cases rejected by DLC	3038	1741	4779	175	153	328	3213	1894	5107
9	No. of cases pending with DLC	2853	265	3118	290	411	701	3143	676	3819
10	No. of cases finally accepted by DLC(=(7)-(8+9))	106814	16398	123212	5429	2387	7816	112243	18785	131028
11	Area involved in the claims which are accepted by DLC	239308.72	37172.7	276481.42	2500541	422821.6	2923362.37	2739849.5	459994.26	3199843.8
12	Total No. of Cases decided (=(1)-(3+6+9))	255459	103396	358855	6350	3409	9759	261809	106805	368614
13	Percentage of implementation (=(12/1%)	97.34	98.62	97.70	81.15	82.03	81.45	96.87	97.99	97.19
14	No. of record of forest right and title issued	101628	16316	117944	5157	2210	7367	106785	18526	125311
15	Area involved in the titles issued (Area in Acre)	234835.8	37011.57	271847.37	2389513	382623.7	2772136.28	2624348.4	419635.29	3043983.7

A



**MAHARASHTRA STATE FOREST
EMPLOYEES WELFARE FUND**

A) Maharashtra State Forest Employees Welfare Fund

Maharashtra State Forest Employees Welfare Fund scheme has come into force with effect from 09th August 2006 vide Government Resolution No. FST/1305/C.R. 448/F-4, Dated 9th August, 2006 issued by Government of Maharashtra, Revenue and Forests Department, Mantralaya, Mumbai. The rules are called "The Maharashtra State Forest Employees Welfare Fund Rules. (Revised) 2006". The primary object of the Fund is to introduce and adopt measures for the welfare of the

employees of the Forest Department. The Fund is a benevolent fund contributing towards/intended for the benefit of its members to the maximum extent the resources permit and is based on the principle of mutual help and cooperation.

2.00 The details of membership & benefits given year wise are mentioned in Table 1 and the accounts mentioned in Table 2 below.

Year	Number of Members	Benefits Given to the Families and Wards of Members											
		Insurance Claim		Gratuitous Relief		Education Excellence Prize		Scholarship		Book Grant		Honorium	
		Nos	Amt. (Rs in Lakh)	Nos	Amt. (Rs in Lakh)	Nos	Amt. (Rs in Lakh)	Nos	Amt. (Rs in Lakh)	Nos	Amt. (Rs in Lakh)	Nos	Amt. (Rs in Lakh)
2019-20	20293	9	34	105	59.5	32	1.9	8	0.8	7	0.12	18	0.47
	Total		34		59.5		1.9		0.8		0.12		0.47

TABLE-2**SUMMARY OF ACCOUNTS FOR THE YEAR 2019-20**

Receipt			Payments		
S.No.	Description	Amount	S.No.	Description	Amount
1	Opening Balance as on 01 Apr 2019	2257215.29	1	Insurance claims paid to NOK of Members	3400000.00
2	Membership subscription Amount from 01 Apr 2019 to 31 Mar 2020	16023263.00	2	Gratuitous Relief on Natural/ Accidental Death of Members	5950000.00
3	Received from The New India Assurance Co. being the Insurance Claim Amount	2600000.00	3	Deduction by Bank being the Inter Branch Fee/ Service Charges	1799.50
4	Interest Credit amount	66482.00	4	Amount deduct by bank being Wrong Posting	10788
5	Remaining interest of TDR credited by bank	47378	5	Book Donation paid to children of members	12700.00
6	United India Insurance Co. Paid Penalty of compensation amount in Court Case.	3404218	6	Scholarship Paid to Children of Deceased Members	80000.00
7	Neft return due to wrong acct	111000	7	Consolation prize awarded to children of members	190000.00
8	Fixed deposit amount after Maturity credited by bank in saving acct	31389039	8	paid to fees to Advocate	15000.00
			9	Saving Amount in HDFC Bank Transfer into Fixed Deposit	40846182.00
			10	Honorarium paid to members	47500.00
			11	Medical advance paid to members	50000.00
			12	Cash Book Purchase	575.00
			13	Medical loan paid to members	30000.00
			Total Expenditure		50634544.50
	Total Receipt	55898595.29		Closing Balance as on 31/03/2020	5264050.79



B



**COMPENSATORY AFFORESTATION
FUND MANAGEMENT AND PLANNING
AUTHORITY (STATE CAMPA)**

B) Compensatory Afforestation Fund Management And Planning Authority (State Campa)

The Hon'ble Supreme Court of India vide its Order dated 05/05/2006 has constituted Ad-hoc CAMPAs at Central Level and directed diversion of the funds deposited with Ad-hoc CAMPAs to State CAMPAs.

The State Govt. vide its Resolution dated 25/09/2009 constituted the Steering and Executive Committees to run the State CAMPAs.

As per guideline issued by the Central Govt. on dated 10/07/2009 and the Resolution passed by the State Govt. on dated 04/01/2010 pursuant thereof, utilization of CAMPAs funds is done through the implementing agencies functioning in the Forest Department, Social Forestry and Forest Development Corporation Ltd. of the State of Maharashtra.

Compensatory Afforestation Fund (CAF) Act - 2016 and CAF Rules-2018

The Act has been notified vide Government of India, Ministry of Law and Justice notification dated 03rd August 2016. These rules are framed under Compensatory Afforestation Funds Act 2016. The rules

describe for management of State Fund, Manner of utilization of Net Present Value, utilization of Interest accrued on deposits in State Fund, appointment of officer of State Authority, preparation of budget of State Authority, maintenance of accounts, preparation of annual statement of accounts by State Authority, Annual Reports by the State Authority, etc. The Act and the Rules have come into force from 30.09.2018 and the state CAMPAs has been renamed as Maha CAMPAs.

Annual Plan of Operations 2019-20

The APO 2019-20 of Rs. 499.38 Crores (Compensatory Afforestation of Rs. 73.47 Crores, Net Present value of Rs. 263.47 Crores and Interest Component of Rs. 162.44 Crores) as approved by the Executive Committee, National Authority on 25.08.2019. Out of which the Rs. 189.40 Crores has budgeted and against of budgeted amount only 80% amount of Rs. 151.52 Crores released by Government.

The main component-wise achievements under APO 2019-20 for Compensatory Afforestation works are summarized in Table-1 below:

TABLE-1

Achievement under Compensatory Afforestation works for year 2019-20.

Sr. No.	Item of works	Area (ha)	Amount (Rs. Lakhs)
1	Pre Planting Operations (PPO)	2876.11	1868.02
2	Conditional Works	0.00	513.19
3	First Year Operations (FYO)	2749.94	1575.93
4	Second Year Operations to 10 th Year Operations	9918.50	1141.33
	Total	15544.55	5098.47

Apart from works under Compensatory Afforestation, Works under Net Present Value component were also carried out. The amount spent for these works is 81.01 Crores the details of which have been provided in Table-2 above.

TABLE-2

Component-wise achievements under NPV

Rule No.	Particulars of work	Amount (Rs. in Lakhs)
5 (2)	Works under Not less than 80 % component (Rule 5 (2))	
a	Artificial Regeneration	5844.07
b	Forest Protection	175.04
c	Soil and moisture conservation works in the forest	25.00
d	Wildlife Management & Man-animal conflict mitigation	1851.56
e	Management of biological diversity and biological resource	230.24
	Grand Total for Activities under not less than 80% component	8125.91
5 (3)	Works under not more than 20 % component (Rule 5 (3))	
f	Total for works under not more than 20% component	855.38
	Grand Total for NPV	8981.29

Works under Interest component were also carried out. The amount spent for these works is 47.94 Crores the details of which have been provided in Table-3 above.

TABLE-3

Component-wise achievements under Interest Component

Rule No.	Particulars of work	Amount (Rs. in Lakhs)
6	Utilization of interest accrued on deposits in State Fund	
6 (a)	Not less than sixty percent	3879.53
6 (b)	Not more than forty percent	8.78
	Total	3888.31

Thus the total amount spent on Compensatory Afforestation, works under Net Present Value and work under Interest Component during the year 2019-20 is 179.68 Crores.

Annual Plan of Operations 2020-21:

The APO 2020-21 of Rs. 599.32 Crores as approved by the Steering Committee, Maha CAMPA on 28.04.2019 details of which have been provided in Table-4 above.

TABLE-4

The abstract of item-wise allocation for 2020-21 under APO 2020-21

Sr. No.	Description	Components	Financial (Rs. In Lakhs)
1	2	3	4
1	Site Specific works as per	Compensatory Afforestation	7744
	FCA approval	CAT Plan	108
		Integrated WMP	156
		Others	1051
		Sub Total (i)	9059
2	Net Present Value	Works under 80% NPV Component (84.62% on Sub Total (ii))	40995
		Works under 20% NPV Component (15.38% on Sub Total (ii))	7453
		Sub Total (ii)	48448
3	Accrued Interest	Works under 60% Interest component (89.90% on Sub Total (iii))	2180
		Works under 40% Interest component (10.10% on Sub Total (iii))	245
		Sub Total (iii)	2425
		Grand Total (i+ii+iii)	59932

The APO 2020-21 has been submitted to the MoEF & CC, GOI, New Delhi for final approval, final approval yet not received. An annual plan of operation 2020-21 has been prepared as per the provisions of CAF Act, 2016 and rules their under.

TABLE-5

The abstract of item-wise allocation for 2020-21 under Site Specific works as per FCA approval.

Sr. No.	Head	Item	Area (ha)	Amount (Rs. Lakhs)
1	CA (01)	Pre Planting Operations	1917.43	3732.55
		First Year Operations	1442.83	1280.92
		Second Year Operations to 10 th Year Operations	12944.40	2730.97
		Total		7744.43
2	CAT Plan (02)	Catchment Area Treatment Plan	-	108.03
3	IWMP (03)	Integrated wildlife Management Plan	-	156.30
4	Other (06)	Plantation under Conditional works	-	401.21
		Other works under Conditional Works	-	649.32
		Total	-	1050.54
		Grand Total		9059.30



C



EVALUATION

C) Evaluation

The Central Evaluation unit was created as per the Government Resolution No R. & F. D. FST/2966/101293-Z dated 9/5/1967 for evaluating works implemented by the Forest Department. The Evaluation Wing is headed by the Chief Conservator of Forests (Evaluation) with head quarters at Nagpur. There are 6 Evaluation Divisions, each headed by a Divisional Forest Officer with head quarters at Nagpur, Chandrapur, Yavatmal, Nashik, Aurangabad and Pune to undertake evaluation. Evaluation is conducted considering the provisions of Evaluation Code 1969. The CCF (Evaluation), Maharashtra state, Nagpur functions under the overall control and supervision of APCCF (N.T.F.P.).

Objectives

- 1) Physical assessment of works done, to judge the quality and standard attained.
- 2) Study the deficiencies and limitations in implementation with a view to suggesting modifications in techniques and financial provisions.
- 3) The ultimate objective is to ensure maximum efficiency

in implementation, to safeguard against infructuous expenditure and take timely and remedial measures wherever necessary.

Presently Evaluation Wing is engaged in two types of activities.

A. Regular Evaluation of Plantations.

- (i) Evaluation of Pre Planting Operation
- (ii) Evaluation of Third Year Plantations.
- (iii) Second Stage Evaluation of Plantations-After 10 year of planting

B. Specific evaluation works assigned by PCCF (HoFF), M.S.Nagpur.

Evaluation Wing carries out Regular Evaluation of Plantations to assess the standard of works, quality of operations, deficiencies and expenditure. During the evaluation, status of fence, growth & survival of seedlings, Soil & Moisture Conservation works, protection, maintenance of record, expenditure etc. are examined.

TABLE

EVALUATION OF PLANTATION WORKS IN 2019-20

(Area in ha.)

Sr. No.	Evaluation Programme	Target		Achievements	
		No. of Units	Area (ha.)	No. of Units	Area (ha.)
1	Evaluation of Pre-Planting Operations of 2018 Rains Plantation	138	2711	125	2415
2	Evaluation of Pre-Planting Operations of 2018 Rains Plantation (Roadside)	155	460.60 Kms.	118	377.25 Kms.
3	Evaluation of Pre-Planting Operations of 2018 Rains Plantation(Blocks)	49	414.35	28	226.2
4	Evaluation of Third Year Operations of 2015 Rains plantations	169	4037.39	166	3885



D



**FOREST PUBLICITY
AND INFORMATION**

D) Forest Publicity And Information

Public participation plays a very vital role in making any Government schemes or programmes successful which can be sought through wide publicity. Maharashtra Forest Department always renders a due importance to it and

made wide Publicity of various government programs and schemes implemented by the Department. In Year 2019-20 following mediums have been used by publicity wing for massive public awareness.

Sr. No.	Printing and Publishing of Maharashtra Forest Department's various Books/ Publications	Quantity
1	Maharashtra forest cover change report	50
2	Statistical outline salient forest statistics-2019	300
3	Digital forest governance	30
4	Sant Tukaram Van Gram Scheme 2017-18	80
5	Printing of Annual Administration Report 2018-19	500
6	Loksanwad	1200
Leaflets, Poster, Flyer/Stickers, Cover		
Printing of Posters, Pamphlets and Flyers on various schemes of the Department		
1	Printing and distribution of Wildlife Week Posters	1000
2	Printing of stickers International Biodiversity Day	1000
3	Printing of Postal special cover	40000
4	Printing of 33 Crore Plantation Drive –GP Letter	28000
FM Radio Channels		
Broadcasting of Jingles/Messages from FM Channels		
1	On the occasion of International Biodiversity Day on 22 nd May an Audio-jingle was broadcasted 93.5 RED FM	1
AIR		
Broadcasting programs from AIR Center		
1	On the occasion of International Biodiversity Day on 22 nd May an Audio-jingle and interview was broadcasted from AIR Nagpur Station	
2	On the occasion of Plantation Drive, a 15 minutes program was aired from all AIR stations from Maharashtra	

Sr. No.	AIR	Quantity
Broadcasting programs from AIR Center		
3	On the occasion of Wildlife Week, a 20 minutes program was aired from all AIR stations from Maharashtra	
4	On the occasion of International Forestry Day on 21 March, a 20 minutes program was aired from all AIR stations from Maharashtra	
Doordarshan		
Broadcasting programs from Doordarshan		
	On the occasion of Tiger Day program was broadcast from Doordarshan	
LED /Digital Display Board		
1	Operationalization of Digital Display Board at Van Bhavan, Nagpur	2
Flex/Banners		
Publicity by Flex / Banner regarding for International Day & Various Schemes of the Forest Department		
1	World Earth Day	4
2	1 st May Maharashtra Day	4
3	22 nd May – International Bio-Diversity Day	6
4	5 th June – World Environment Day	3
5	33-Crore Plantation Drive	4
6	TERI Workshop (Standi-5,Backdrop-1 and Design-6)	12
7	Eco-friendly Ganeshotsav, van hutatma din, nisarg shikshan mala	3
8	Wildlife Week - 2019 (Standi-3, Backdrop-1 and Design-2)	6
9	Eco-friendly Diwali	3
10	National Pollution Control Day	2
11	New Year 2020	2
12	Eco-friendly Holi	3
13	21 st March International Forest Day	2
Audio Jingle		
1	Audio Jingle making on International Biodiversity Day	1
Documentary		
1	Filming and Production of 60-seconds documentaries of each 6 winning committees selected under the Sant Tukaram Van Gram Scheme for 2017-18	6
2	Documentaries of notable work of forest department(English,Hindi and Marathi)	3
Sr. No.	Program	Quantity
1	Organization of function on Wildlife Week	1
2	Nisarg shikshan mala	40
3	Paudha hua hai	7
Field Tour		
1	Visit to Pench Tiger Project	2
2	Visit to Gorewada Lake, Nagpur	10

E



**SILVICULTURAL
RESEARCH**

E) Silvicultural Research

Sr. No.	Title of the Experiment	Physical target achieved	No. Species tried	Location (Research Range)
1	2	3	4	5
1 Forest Genetics & Plant Improvement				
A. Identification of Superior Genetic Plant Material				
1.1	Selection of Candidate Plus Trees	The species for which CPTs were selected during the year are listed below		
	Objectives : To obtain genetically superior seeds of know origin			
		1	Behada (<i>Terminalia bellirica</i>)	Research Centre Sakoli, Nagpur
		2	Moha (<i>Madhuca indica</i>)	Research Centre Sakoli, Nagpur
		1	Charoli (<i>Buchanania cochinchinensis</i>)	C.No. 189 FRC. Sakoli
		1	Bibba (<i>Semecarpus anacardium</i>)	C.No. 189 FRC. Sakoli C.No. 188 FRC. Sakoli
		1	Bel (<i>Aegle marmelos</i>)	C.No. 189 FRC. sakoli
		4	Parad (<i>Stereospermun chelonoides</i>)	C.No. 189 FRC. sakoli
		1	Dhavada (<i>Anogeissus latifolia</i>)	C.No. 188 FRC. sakoli
		1	Kasai (<i>Bridelia retusa</i>)	C.No. 147 NNTR. Umarzari, Nagzira, Under Sakoli C.No. 190 FRC. Sakoli
		2	Tetu (<i>Oroxylum indicum</i>)	C.No. 121 NNTR. Nagzira, Under Sakoli



Sr. No.	Title of the Experiment	Physical target achieved	No. Species tried	Location (Research Range)
1	2	3	4	5
1.1		1	Hirda (<i>Terminalia chebula</i>)	C.No. 124 NNTR. Nagzira, Under Sakoli
		1	Motha kalmal (<i>Dillenia pentagyna</i>)	C.No.572, Wildlife, Pench, Shillari, Under Sakoli
		1	Tendu (<i>Diospyros melanoxylon</i>)	C.No. 188 FRC. sakoli
		1	Surya (<i>Xylia xylocarpa</i>)	C.No. 124 NNTR. Nagzira, Under Sakoli
		1	Koshimb (<i>Schleichera oleosa</i>)	C.No. 188 FRC. sakoli
		1	Kalamb (<i>Mitragyna parvifolia</i>)	C.No. 189 FRC. sakoli
		1	Charoli (<i>Buchanania lanzan</i>)	C.No. 190 FRC. sakoli
		1	Haldu (<i>Adina cordifolia</i>)	C.No. 190 FRC. sakoli
		2	Kahu (<i>Termanilia arjuna</i>)	Research Centre Paratwada
		1	Behada (<i>Termanilia bellirica</i>)	Research Centre Paratwada
		2	Aamba (<i>Mangifera indica</i>)	Research Centre Paratwada
		1	Aamba (<i>Mangifera indica</i>)	Research Centre Paratwada
		1	Amaltas (<i>Cassia fistula</i>)	Research Centre Paratwada
		1	Avala (<i>Phyllantas emblica</i>)	Research Centre Paratwada
		1	Umbar (<i>Ficus resemosa</i>)	Research Centre Paratwada

B. Development of Seed Production Areas (SPAs)

1.1	Development of Seed Production Area (SPAs)			
		5 ha	Khair (<i>Acacia catechu</i>) Seed Plot	C.No.204 RF Territorial range, Sakoli
		5 ha	Haldu (<i>Adina cordifolia</i>) Seed Plot	C.No. 673 RF Territorial range, South deowari
		5 ha	Charoli (<i>Buchanania cochinchinensis</i>) Seed Plot	C.No. 1595 PF Territorial range, Sadakarjuni
		5 ha	Charoli (<i>Buchanania lanzan</i>)	C.No.314 Territorial range, FRC Paratwada
	Objectives : To obtain genetically superior seeds in large quantity	3 Ha.	Teak	RFO-1 Compartment No. 407
			Shisam (<i>Dalbergia latifolia</i>)- 5 ha.	RFO Tadgaon Compartment No.180

Sr. No.	Title of the Experiment	Physical target achieved	No. Species tried	Location (Research Range)
1	2	3	4	5
	Objectives			
	Determine the adaptability of such species in different agroclimatic zones.	5000	Tetu, Gugul, Behada, Bicsa kaju	Chandrapur RFO-1 Compartment No. 398
	Other works			
	Study of Natural Regeneration	10	Naturally regenerated different of species.	Chichapalli Range (C/No.528, 426,519,633,356)Chandrapur Buffer (C/No.520,391,392, 395,389) Bamni Range (C/No.331,63) Gatta Range (C/No.418) Bhamragad Range (C/No.699)
	Study of Bamboo Felling	1	Bamboo (<i>Dendrocalamus strictus</i>)	Chandrapur Range (C/No.398)
	Botanical Garden	1	Misc. Species	Chandrapur Range (C/No.398)
	Agro Forestry Model	1	Suru (Casurina)	Chandrapur Range (C/No.398)
		1	Nilgiri (Eucalyptus hybrid) Various clones of Nilgiri as under.	Research Center Parola Compt No 350 Kadaju
			1 CMP 1413 444 Plants	
			2 CMP - 4283 4283 Plants	
			3 CMP - 270 444 Plants	
			4 CMP/URO 2306 444 Plants	
			5 CMP 288 445 Plants	
		1	Suru (Inland Casurina)	
			1 Suru 1111 Plants	Research Center Navapur Compt No 94 Kukran Range
			2 Suru 1111 Plants	(T) Chinchpada Research
			Subabhul	Pune Range
	Atal Anadvan Ghan Van Prkalp (Miyawaki)	1	Miyawaki (To Study the restoration & Reconstruction of forests based on the concept of Potential Natural Vegetation.	Pune, Panchgaon - Parvati

Sr. No.	Title of the Experiment	Physical target achieved	No. Species tried	Location (Research Range)
1	2	3	4	5
	Experimental Plantation of different species of grasses to study the restoration & reconstruction, growth of different grass species in V shaped furrow.	-	Gini Gawat (<i>Panicum masimum Jacq</i>)	Pune, Daund -Warvand, F.G.No.2061
		-	Kala Dhaman (<i>Cenchrus setigerus Vahl</i>)	Pune, Daund - Warvand, F.G.No.2062
		-	Anjan (<i>Cenchrus ciliaris Linn</i>)	Pune, Daund -Warvand, F.G.No.2063
		-	Marvel (<i>Dichanthium annulatum</i>)	Pune, Daund -Warvand, F.G.No.2064
		-	Sheda Pandhara (<i>Sehima nervosum Rottl</i>)	Pune, Daund -Warvand, F.G.No.2065
		-	Sheda Gulabi (<i>Sehima nervosum Rottl</i>)	Pune, Daund -Warvand, F.G.No.2066
		-	Tikhadi (<i>Cymbopogon martini</i>)	Pune, Daund -Warvand, F.G.No.2067
		-	Sugran(<i>Sorghum purpureo sericium</i>)	Pune, Daund -Warvand, F.G.No.2068
		-	Dongri (<i>Chrysopogon fulvus</i>)	Pune, Daund -Warvand, F.G.No.2069
		1 ha	Ginni Gawat (<i>Panicum masimum jacq</i>) 3l 4 Dongri 5 Dinanath 6 Pink Sheda (<i>Sehima nervosum</i>)	Wardha Nursery under FRC Paratwada
			Small Marvel (<i>Dichanthium annulantum</i>)	Wardha Nursery under FRC Paratwada
			Big Marvel (<i>Dichanthium annulatum</i>)	Wardha Nursery under FRC Paratwada
			Dongri (<i>Chrysopogon fulvus</i>)	Wardha Nursery under FRC Paratwada
			Sheda Gulabi (<i>Sehima nervosum Rottl</i>)	Wardha Nursery under FRC Paratwada

Sr. No.	Title of the Experiment	Physical target achieved	No. Species tried	Location (Research Range)
1	2	3	4	5
	Production of seedlings of important (RCT) species	10000 Plants	Rare species plants	Location Forest Survey No 204 Jalna Range Forest Officer Research Centre Jalna
		25000 Plants	Rare species plants	Wardha Nursery under FRC Paratwada
		5000 Plants	Rare species plants	RFO Research Pune. Satara-Gureghar Research Center.
		5000 Plants	Rare species plants	Research Center Padve-Mazgaon. RFO Research Dodamarg
		10000 Plants	Rare species plants	Parewadi Research Center. RFO Research Ajara
	Study of Natural Regeneration	2	Natural regenerated different species	FRC Paratwada CN 448,421

Comparative study of plantation of different grass species in the drought-prone areas.

Introduction

Grasslands and their scientific management are of special importance in the Forest Department. Most Forest Department activities have proposed separate agenda for pasture development. In working plan, treatment is proposed by ploughing and sowing seeds of grass under the Kuran Development Project. However, due to heavy rains in drought-prone or rain-fed areas, when the seeds are exposed due to rain, the germination of the grasses is less and also the growth of planted tussocks is not good. Therefore, the purpose of grass fodder development has not been successful. Unlike other tree species, the technique of preparing and planting grass seedlings was not considered cost-effective. However, for the last three to four years in the Solapur Forest Department, 'V' saplings have been planted in the sowing area and the seeds are planted in the grass species like Anjan, Kala Dhaman, Guinea etc. and their percentage of livelihoods, spreading the seedlings next year and planting the

previous year. However, in this Ropawan program, various types of grasses, sowing their seeds / sowing / sowing by seedlings, distance between seedlings, cost incurred and their benefits have not been studied in a comparative manner.

Depending on the above considerations, spacing of seedlings, bag with seedlings, thumb, 54 ml, 90 ml, 250 ml size polythene tray, growth of grass seedlings in root trainer and its effect on cultivation it is important to study. On the basis of the results of this experiment, the plantation patterns for forest development program in forest department can be accelerated by preparing plantation patterns.



Objectives of the experiment

1. To study the growth of various grass species by planting V-shaped furrows in forest area.
2. To study the effect of grass yields by changing the distance between two saplings of grass in reserved forest area.
3. To provide pure seeds of good variety.

Work Place

Reserve forest area at Varvand in Forest area Pune under Forest Department Pune area in Pune Territorial Circle.
Spp selected for the experiment:

Sr. No.	Botanical name
S 1	<i>Panicum maximum</i> Jacq
S 2	<i>Cenchrus setigerus</i> Vahl
S 3	<i>Cenchrus ciliaris</i> Linn
S 4	<i>Dichanthium annulatum</i> (forssk) stapf
S 5	<i>Sehima nervosum</i> Rottl
S 6	<i>Sehima nervosum</i> Rottl
S 7	<i>Cymbopogon martini</i>
S 8	<i>Sorghum purpureo sericium</i>
S 9	<i>Chrysopogon fulvus</i> (Spr) chiov

Plot Design Replica - 1 (R1)		Plot Design Replica - 2 (R2)	
T - 1	Seedlings in polybags	D - 1	Distance between two seedlings -1 mt
T - 2	Seedlings in 54 ml polytray	D - 2	Distance between two seedlings-0.50mt
T - 3	Seedlings in 90 ml polytray	Number of Replicas : 3	
T - 4	Seedlings in 250 ml polytray	Total Sub plots	270(Species 9 (S) x Container 5(T) x Distance 2 (D) x Replica 3 (R)
T - 5	Grass tussocks	Sub plot size	0.30 x 0.20 x 1 0.3 x 0.20 x 0.50



Plot Design Replica - 1 (R1)

Plot Design Replica - 1 (R1)		
S1 T1 D1	S4 T1 D1	S7 T1 D1
S1 T1 D2	S4 T1 D2	S7 T1 D2
S1 T2 D1	S4 T2 D1	S7 T2 D1
S1 T2 D2	S4 T2 D1	S7 T2 D2
S1 T3 D1	S4 T3 D1	S7 T3 D1
S1 T3 D2	S4 T3 D1	S7 T3 D2
S1 T4 D1	S4 T4 D1	S7 T4 D1
S1 T4 D2	S4 T4 D1	S7 T4 D2
S1 T5 D1	S4 T5 D1	S7 T5 D1
S1 T5 D2	S4 T5 D1	S7 T5 D2
S2 T1 D1	S5 T1 D1	S8 T1 D1
S2 T1 D2	S5 T1 D2	S8 T1 D2
S2 T2 D1	S5 T2 D1	S8 T2 D1
S2 T2 D2	S5 T2 D2	S8 T2 D2
S2 T3 D1	S5 T3 D1	S8 T3 D1
S2 T3 D2	S5 T3 D2	S8 T3 D2
S2 T4 D1	S5 T4 D1	S8 T4 D1
S2 T4 D2	S5 T4 D2	S8 T4 D2
S2 T5 D1	S5 T5 D1	S8 T5 D1
S2 T5 D2	S5 T5 D2	S8 T5 D2
S3 T1 D1	S6 T1 D1	S9 T1 D1
S3 T1 D2	S6 T1 D2	S9 T1 D2
S3 T2 D1	S6 T2 D1	S9 T2 D1
S3 T2 D2	S6 T2 D2	S9 T2 D2
S3 T3 D1	S6 T3 D1	S9 T3 D1
S3 T3 D2	S6 T3 D2	S9 T3 D2
S3 T4 D1	S6 T4 D1	S9 T4 D1
S3 T4 D2	S6 T4 D2	S9 T4 D2
S3 T5 D1	S6 T5 D1	S9 T5 D1
S3 T5 D2	S6 T5 D2	S9 T5 D2

Plot Design Replica - 2 (R2)

Plot Design Replica - 2 (R2)		
S9 T1 D1	S6 T1 D1	S3 T1 D1
S9 T1 D2	S6 T1 D2	S3 T1 D2
S9 T2 D1	S6 T2 D1	S3 T2 D1
S9 T2 D2	S6 T2 D2	S3 T2 D2
S9 T3 D1	S6 T3 D1	S3 T3 D1
S9 T3 D2	S6 T3 D2	S3 T3 D2
S9 T4 D1	S6 T4 D1	S3 T4 D1
S9 T4 D2	S6 T4 D2	S3 T4 D2
S9 T5 D1	S6 T5 D1	S3 T5 D1
S9 T5 D2	S6 T5 D2	S3 T5 D2
S8 T1 D1	S5 T1 D1	S2 T1 D1
S8 T1 D2	S5 T1 D2	S2 T1 D2
S8 T2 D1	S5 T2 D1	S2 T2 D1
S8 T2 D2	S5 T2 D2	S2 T2 D2
S8 T3 D1	S5 T3 D1	S2 T3 D1
S8 T3 D2	S5 T3 D2	S2 T3 D2
S8 T4 D1	S5 T4 D1	S2 T4 D1
S8 T4 D2	S5 T4 D2	S2 T4 D2
S8 T5 D1	S5 T5 D1	S2 T5 D1
S8 T5 D2	S5 T5 D2	S2 T5 D2
S7 T1 D1	S4 T1 D1	S1 T1 D1
S7 T1 D2	S4 T1 D2	S1 T1 D2
S7 T2 D1	S4 T2 D1	S1 T2 D1
S7 T2 D2	S4 T2 D1	S1 T2 D2
S7 T3 D1	S4 T3 D1	S1 T3 D1
S7 T3 D2	S4 T3 D1	S1 T3 D2
S7 T4 D1	S4 T4 D1	S1 T4 D1
S7 T4 D2	S4 T4 D1	S1 T4 D2
S7 T5 D1	S4 T5 D1	S1 T5 D1
S7 T5 D2	S4 T5 D1	S1 T5 D2



Plot Design Replica - 3 (R3)

Plot Design Replica - 3 (R3)		
S5 T1 D1	S2 T1 D1	S7 T1 D1
S5 T1 D2	S2 T1 D2	S7 T1 D2
S5 T2 D1	S2 T2 D1	S7 T2 D1
S5 T2 D2	S2 T2 D2	S7 T2 D2
S5 T3 D1	S2 T3 D1	S7 T3 D1
S5 T3 D2	S2 T3 D2	S7 T3 D2
S5 T4 D1	S2 T4 D1	S7 T4 D1
S5 T4 D2	S2 T4 D2	S7 T4 D2
S5 T5 D1	S2 T5 D1	S7 T5 D1
S5 T5 D2	S2 T5 D2	S7 T5 D2
S4 T1 D1	S1 T1 D1	S8 T1 D1
S4 T1 D2	S1 T1 D2	S8 T1 D2
S4 T2 D1	S1 T2 D1	S8 T2 D1
S4 T2 D1	S1 T2 D2	S8 T2 D2
S4 T3 D1	S1 T3 D1	S8 T3 D1
S4 T3 D1	S1 T3 D2	S8 T3 D2
S4 T4 D1	S1 T4 D1	S8 T4 D1
S4 T4 D1	S1 T4 D2	S8 T4 D2
S4 T5 D1	S1 T5 D1	S8 T5 D1
S4 T5 D1	S1 T5 D2	S8 T5 D2
S3 T1 D1	S6 T1 D1	S9 T1 D1
S3 T1 D2	S6 T1 D2	S9 T1 D2
S3 T2 D1	S6 T2 D1	S9 T2 D1
S3 T2 D2	S6 T2 D2	S9 T2 D2
S3 T3 D1	S6 T3 D1	S9 T3 D1
S3 T3 D2	S6 T3 D2	S9 T3 D2
S3 T4 D1	S6 T4 D1	S9 T4 D1
S3 T4 D2	S6 T4 D2	S9 T4 D2
S3 T5 D1	S6 T5 D1	S9 T5 D1
S3 T5 D2	S6 T5 D2	S9 T5 D2



Subabul Trial Plot under Agro-Forestry Model

Illegal grazing in the Forest Department can result in loss of plantation and grass grazing. Since fencing is impossible and cost effective for every forest area, it is necessary to rely on only manpower to control the grazing. Subabul is a perennial plant or shrub that provides very nutritious fodder for the animals, and it has ability to withstand water scarcity as its roots deepen in the soil. The experiment has been proposed for the purpose of developing a harmonious environment between the Forest Department and neighboring villagers through this experiment and to stop the grazing in the forest area and to give information and demonstration of the high yielding varieties that provide high yield to the farmers.

Objectives of the experiment

1. To study the growth of different subabul species in Forest area.
2. To study the yield of different subabul species in Forest area.

Work place

1 hectare area of Reserve Forest Area Group No.199 (4) at patas in Daund Territorial Forest Area of Pune Forest Department has been selected for this experiment.

Spp selected for experiment

Seedlings of the improved varieties of Subabul's new Wondergraze, Taramba and Nirbija, as well as the seeds of the new Wondergraze, Taramba, were obtained from Nimbkar Agricultural Research Institute, Animal Husbandry Department Phaltan. The seedlings of these species are planted on CCTs with distance between two seedlings being 1 m. CCTs are filled completely at the time the of availability of water from the canal adjacent to the cultivated area. Receiving a rotation in about 2 months will be planned accordingly.

Similarly, an alternative source of water will be made available through drip irrigation by installing a motor in the wells existing in this forest area.

Sr. No.	(Subabul spp.names)	Characteristics
1	New Wondergraze	► Bushy growth ,height generally less than 1 mt in on year and braches near ground in number of 3-4. ► Seeds and pods but in less number.
2	Tarramba	► Height ranges from 2 to 3 mt in one year and braches 1-2.
3	NARI Neerbeeja (<i>Hybrid of Leucena leucocephala and Leucaena pallid</i>)	► Strongly resistant to aphid-like pest psyllid and virtually seedless. ► Propagated in vegetative manner by grafting of NARI Nirbeeja. ► High protein fodder spp.



Atal Anandvan Ghanvan Prkalp (Miyawaki)

Government Resolution

Number: - SFD-2019 / CR.-3 / F-11

Objective of the scheme

- ▶ Considering the scarcity of space in urban areas, a large number of small areas.
- ▶ Adding supplementary resources such as hydraulic sediments, organic fertilizers, water. Increase the percentage of live plants, with good and strenuous growth of the seedlings used to maintain more green cover.
- ▶ To control the pollution of the urban areas by increasing tree plantation

Objectives of the experiment

- ▶ To study the type of planting Miyawaki.
- ▶ 1m and 0.50 m. To study the difference in growth of seedlings in the room.
- ▶ To study the effect of plant growth on pipes by watering them with drip irrigation.
- ▶ To study the growth of seedlings and saplings grown by sowing.

Sr. No.	No.Local name of the species	Botanical Name
1	Karanj	<i>Pongamia pinnata</i>
2	Chinch	<i>Tamarindus indica</i>
3	Kahandol	<i>Sterculia urens</i>
4	Umber	<i>Ficus racemosa</i>
5	Pimple	<i>Ficus religiosa</i>
6	Apata	<i>Bauhinia racemosa</i>
7	Ain	<i>Terminalia elliptica</i>
8	Awala	<i>Phyllanthus emblica</i>
9	Behada	<i>Terminalia belirica</i>
10	Amaltash	<i>Casia fistula</i>
11	Katesawar	<i>Bombax ceiba</i>
12	Anjan	<i>Hardwickia binata</i>
13	Kavath	<i>Limonia acidissima</i>
14	Bael	<i>Aegle marmelos</i>
15	Bakul	<i>Mimusops elengi</i>
16	Maharukh	<i>Ailanthus excelsa</i>
17	Nagakeshar	<i>Mesua ferrea</i>

Site Selection

- ▶ Monitor the availability of water
- ▶ If there is no high pressure electric current over the planting area, the area underneath it should be excluded.
- ▶ Free area should be selected, but high land plateau should not be taken in the Western Ghats.
- ▶ Also the forest area should be excluded from the grazing area

Work Place

Area of the Pachgaon Parbat Reserve No.1, No.1 of the Bhamburda Forest Area under Forest Department Pune.

Pre-monsoon work year 2018-19.

Seedlings planting year Rains 2019

Experiment duration

6 years and then experimental work maintenance 4 years total 10 years.

Sr. No.	No.Local name of the species	Botanical Name
18	Neem	<i>Azadirachta indica</i>
19	Ritha	<i>Sapindus mukorossi</i>
20	Jambhul	<i>Eugenia jambhana</i>
21	SitaAshok	<i>Saraca asoca</i>
22	Walela	<i>Holoptelea intergrifolia</i>
23	Shivan	<i>Gmelina arborea</i>
24	Bitty	<i>Cascabela thevetia</i>
25	Bor	<i>Ziziphus mauritiana</i>
26	Cinamon	<i>Cinnamomum verum</i>
27	Dikamal	<i>Gardenia resinifera</i>
28	Kaju	<i>Anacardium occidentale</i>
29	Kokum	<i>Garcinia indica</i>
30	Palas	<i>Butea monosperma</i>
31	Saptrang	<i>Salacia oblongo</i>
32	Surungi	<i>Mammea surangi</i>
33	Tirfal	<i>Sichuam pepper</i>

Dimensions of plot: Length 20.00 m. Width 5.00 m

Total Number of plots: Six

MIYAWAKI Panchav Parvati F.S. 1					
PLOT NO. 1	PLOT NO. 2	PLOT NO. 3	PLOT NO. 4	PLOT NO. 5	PLOT NO. 6
(Sub Surface irrigation)	(Sub Surface irrigation)	(Surface irrigation)	(Surface irrigation)	(flood irrigation)	(flood irrigation)
Depth 1 Meter	Depth 0.5 Meter	Depth 1 Meter	Depth 0.5 Meter	Depth 1 Meter	Depth 0.5 Meter

Preparation of plots for planting operations

Mixture as follows used for refilling of the dug plots.

- ▶ Native soil excavated on site.
- ▶ Paddy husk.
- ▶ Sugarcane bagasse
- ▶ Dry leaf litter

Procurement of seedlings done from following nurseries

- ▶ Shahapur Research Range
- ▶ Wada Research Range
- ▶ Nasrapur Territorial Range
- ▶ Shirur Territorial Range
- ▶ Gureghar, Pune Research Range
- ▶ Pune Research Nursery, Pune Research Range

Number of seedlings per plot - 319

Total number of seedlings - 1914

Treatments given:

Compost fertilizers – Vermi Compost prepared in Pune research Nursery.

Jeewamrut: - 200 litres per plot (200 litres of water + cow dung 10k + Cow urine 10 litres + basin flour 2k + Jaggery 4k)



Source :- APCCF (R & T) Pune

F



WILDLIFE

F) Wildlife

1) WILD LIFE SANCTUARIES & NATIONAL PARKS : MANAGEMENT

Maharashtra is home to large number of wild animals and bird species along with many rare species. There are 6 National Parks, 49 Wildlife Sanctuaries and 6 Conservation Reserves. List is given in the Table No.1 below. The position of preparation of management plans and conservation plan is given in Table-2 below.

TABLE-1

LIST OF WILDLIFE SANCTUARIES AND NATIONAL PARKS

WL Circle	WL Division	Name of WLS, N.P. & Conservation Reserve	Date of Notification	Area (Sq.Km)
1	2	3	4	5
APCCF(WL) East, Nagpur (15)	CF & FD, Chandrapur	1. Tadoba N.P. *	31-03-1955	116.55
		2. Andhari WLS *	25-02-1986	509.27
	ACF(WL) Allapalli	3. Bhamragadh WLS	06-05-1997	104.38
		4. Chaprala WLS	25-02-1986	134.78
	CCF & FD, PTR Nagpur	5. Bor WLS *	27-11-1970	61.1
		6. New Bor WLS*	28-02-2012	60.7
		7. New Bor Extended WLS*	03-05-2014	16.32
		8. Pench N.P.*	22-11-1975	257.26
		9. Mansingdeo WLS	02-11-2010	182.58
		10. Umred- Karhandla WLS	29-06-2012	189.29
	CF & FD NNTR, Gondia	11. Navegaon N.P *	21-12-2000	129.55
		12. Navegaon WLS *	28-02-2012	122.76
		13. Nagzira WLS *	03-06-1970	152.81
		14. New Nagzira WLS *	29-02-2012	151.33
		15. Koka WLS *	18-07-2013	100.138
APCCF & FD, M.T.R. Amravati	Sipna (WL) Chikhaldara	16. Melghat WLS (Part)*	15/02/ 1994 & 06/11/2000	788.75
	Gugamal (WL) Paratwada -2	17. Gugamal N.P. (Part)*	27/11/1987 & 08/08/2000	361.28
	(WL) Akot	18. Ambabarva WLS *	09-04-1997	127.11

WL Circle	WL Division	Name of WLS, N.P. & Conservation Reserve	Date of Notification	Area (Sq.Km)
1	2	3	4	5
APCCF & FD, M.T.R. Amravati	(WL) Akot	19. Narnala WLS *	02-05-1997	12.35
		20. Van WLS *	28/07/1997 & 29/07/1997	211
		Melghat (Part) *		
		Gugamal(Part) *		
	(WL) Akola	21. Dhyanganga WLS	07/05/1997 & 09/05/1997	205.21
		22. Katepurna WLS	08-02-1988	73.69
		23. Lonar WLS	08-06-2000	3.83
		24. Karanja-Sohol Black-Buck WLS	07-12-2000	18.32
	DFO (WL)	25. Tipeswar WLS	24/01/1997 & 30/04/1997	148.63
	Pandharkawada	26. Painganga WLS	25/02/1986 & 24/02/2004	424.89
APCCF(WL) West, Mumbai (22)	DCF(WL) Pune	27. Deulgaon-Rehukari WLS	29-02-1980	2.17
		28. Great Indian Bustard WLS	09-03-2016	366.73
		29. Bhimashankar WLS	16-09-1985	130.78
		30. New Great Indian Bustard WLS (Gangewadi)	28-02-2012	1.98
		31. Mayureswar- Supe WLS	19-08-1997	5.145
	Dy. CF(WL) Thane	32. Phansad WLS	25-02-1986	69.79
		33. Tansa WLS	12/06/1970 & 16/09/1985	304.81
		34. Karnala Bird WLS	06/05/1968 & 23/01/2003	12.155
	CF & FD, STR, Kolhapur	35. Radhanagri WLS	02/12/1958 & 16/09/1985	351.16
		36. Koyana WLS *	29-05-2019	335.3
		37. Chandoli N.P. *	14-05-2004	317.67
		38. Sagarashwar WLS	16-09-1985	10.87
	CCF&Dir. SGNP Borivali	39. S.G.N.P.	04/02/1983 & 16/01/1996	86.96
		40. Tungashwar WLS	24-10-2003	85.7
	DFO(WL) Aurangabad	41. Goutala Autramghat WLS	25-02-1986	260.61
		42. Jaikwadi Bird WLS	10-10-1986	341.05
		43. Naigaon-Mayur WLS	08-12-1994	29.89
		44. Yedshi RamlingghatWLS	16/05/1997 & 17/05/1997	22.38
	CF(WL) Nashik	45. Nandurmadhyameswar WLS	25-02-1986	100.12
		46. Kalsubai Harishchandragad WLS	25-02-1986	361.71
		47. Aner-Dam WLS	10-10-1986	82.94
		48. Yaval WLS	21-03-1969	177.52
CCF(T) Pune	Dy.CF(T) Pune	49. Tamhini WLS	03-05-2013	49.62

WL Circle	WL Division	Name of WLS, N.P. & Conservation Reserve	Date of Notification	Area (Sq.Km)
1	2	3	4	5
CCF(T) Gadchiroli	Dy.CF(T) Sironcha	50. Pranhita WLS	27-08-2014	420.06
CCF(T)Pune	Dy.CF(T) Pune	51. Sudhagad WLS	27-08-2014	77.128
CF(T) Yavatmal	Dy.CF(T)Pusad/Hingoli	52. Isapur WLS	27-08-2014	37.803
CCF(T) Chandrapur	Dy.CF, Bramhapuri	53. Ghodazari Wildlife Sanctuary	23-03-2018	153.31
APCCF (Mangrove cell)	-----	54. Thane Creek Flamingo WLS	06-08-2015	16.9
Mumbai Sub-Urban		55. Malvan MarineWLS	13-04-1987	29.122
CCF(T) Nashik	Dy.CF(T) East, Nashik	56. Bhorgad Conservation Reserve	05-03-2008	3.49
CCF(T) Gadchiroli	Dy.CF(T) Sironcha	57. Kolamarka Conservation Reserve	08-01-2013	180.72
CCF(T) Dhule	Dy.CF(T) Jalgaon	58. Muktai Bhavani Conservation Reserve	03-05-2014	122.74
CCF(T) Nashik	Dy.CF(T) East Nashik	59. Mamdapur Conservation Reserve	24-06-2014	54.46
CCF(T) Dhule	Dy. CF Nandurbar Forest Division, Shahada	60. Toranmal Conservation Reserve	11-07-2016	93.42
CCF(T) Nashik	Dy.CF, West Nashik	61. Anjneri Conservation Reserve	31-01-2017	5.69
			Total	9365.781

Source :- Desk-23(2),PCCF(WL)

Total Geographical Area of Maharashtra (3,07,713 Sq. Km), Percentage of Wildlife Protected Area is 3.04 %.

*** Protected Areas included in Tiger Project.**

TABLE-2**POSITION OF MANAGEMENT PLANS/CONSERVATION PLANS OF PROTECTED AREAS**

Sr.No	Name of Protected area	Order No./date of approval of Tiger Conservation Plan/ Management Plan of WLS/ CR	Period of Plan	Remarks
1	Deulgaon-Rehekuri Wildlife Sanctuary	Desk-22(8)/521/11-12 dt. 23/05/2011	2010-11 to 2019-20	Plan Approved
2	Aner Dam Wildlife Sanctuary	Desk-22(8)/780/11-12 dt. 14/6/2011	2010-11 to 2019-20	Plan Approved
3	Phansad Wildlife Sanctuary	Desk-22(8)/807/11-12 dt. 16/6/2011	2010-11 to 2019-20	Plan Approved
4	Tansa Wildlife Sanctuary	Desk-22(8)/1156/12-13 dt. 26/6/2012	2012-13 to 2021-22	Plan Approved
5	Sagareswar Wildlife Sanctuary	Desk-22(8)/4825/13-14 dt. 19/3/2013	2013-14 to 2022-23	Plan Approved
6	Sanjay Gandhi National Park	Desk-22(8)/4827/13-14 dt. 19/3/2013	2013-14 to 2022-23	Plan Approved
7	Karnala Bird Sanctuary	Desk-22(8)/4826/13-14 dt. 19/3/2013	2013-14 to 2022-23	Plan Approved
8	Yaval Wildlife Sanctuary	Desk-22(8)/5552-A/13-14 dt. 29/3/2014	2013-14 to 2022-23	Plan Approved
9	Radhanagari Wildlife Sanctuary	Desk-22(8)/05/13-14 dt. 01/04/2014	2013-14 to 2022-23	Plan Approved
10	Bhorgad Conservation Reserve, Nashik	Desk-22(8)/CR-650/249/2013-14 dt. 29/04/2014 Revised extention order letter No. 213 (17-18)/ dt. 20/4/2017.	2017-18 to 2021-22	Plan Approved
11	Katepurna Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-685/ 15-16/2885 dt. 17/10/2015	2013-14 to 2022-23	Plan Approved
12	Dynanganga Wildlife Sanctuary	Desk-22(8)/WL/M Plan /CR-166 Part-6/3067/15-16 dt. 30/10/2015	2015-16 to 2024-25	Plan Approved
13	Naigaon Mayur Wildlife Sanctuary	Desk-22(8)/WL/MP/CR-166 Part- 16/3153/15-16 dt. 5/11/2015	2015-16 to 2024-25	Plan Approved
14	Nandur Madhameswar Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-17/3490/15-16 dt. 01/12/2015	2015-16 to 2024-25	Plan Approved



Sr.No	Name of Protected area	Order No./date of approval of Tiger Conservation Plan/ Management Plan of WLS/ CR	Period of Plan	Remarks
15	Kolamarka Conservation Reserve	Desk-22(8)/WL/M Plan/CR-795 (13-14)/3924/15-16 dt. 04/01/2016	2014-15 to 2023-24	Plan Approved
16	Yedshi Ramling Ghat Wildlife Sanctuary.	Desk-22(8)/WL/M Plan/CR-166 Part-18/5439/15-16 dt. 15/02/2016	2015-16 to 2024-25	Plan Approved
17	Chapralla Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-4/5440/15-16 dt. 15/02/2016	2015-16 to 2024-25	Plan Approved
18	Gautala Autramghat Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-9/2514/18-19 dt. 16/10/2018	2015-16 to 2024-25	Plan Approved
19	Kalsubai Harishchandragad Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-3/5594/15-16 dt. 24/02/2016	2016-17 to 2025-26	Plan Approved
20	Mamdapur Conservation Reserve	Desk-22(8)/WL/M Plan/CR-930 (14-15)/2224/16-17 dt. 31/03/2016	2014-15 to 2018-19	Plan Approved
21	Muktai Bhavani Conservation Reserve	Desk-22(8)/WL/M Plan/CR-166 Part-11(15-16)/1703/16-17 dt. 2/8/2016	2016-17 to 2021-22	Plan Approved
22	Mayureshwar Supe Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-865 (14-15)/3083/16-17 dt. 22/11/2016	2013-14 to 2022-23	Plan Approved
23	Lonar Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-19(15-16)/1938/17-18 dt. 21/9/2017	2017-18 to 2026-27	Plan Approved
24	Bhamragad Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-7(15-16)/2881/17-18 dt. 14/12/2017	2016-17 to 2025-26	Plan Approved
25	Pranhita Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-14/2988/17-18 dt. 21/12/2017	2016-17 to 2025-26	
26	Painganga Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-5/3009/17-18 dt. 22/12/2017	2016-17 to 2025-26	Plan Approved
27	Tipeshwar Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-20(15-16)/3008/17-18 dt. 22/12/2017	2016-17 to 2025-26	Plan Approved
28	Toranmal Conservation Reserve	Desk-22(8)/WL/M Plan/CR-11 (17-18)/3727/17-18 dt. 27/02/2018	2017-18 to 2021-22	Plan Approved
29	Tamhini Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-10(15-16)/1744/18-19 dt. 08/08/2018	2018-19 to 2027-28	Plan Approved
30	Sudhagarh Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-13(15-16)/ 2604/18-19 dt. 20/10/2018	2018-19 to 2027-28	Plan Approved
31	Tungreshwar Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166 Part-21(17-18)/ 3266/18-19 dt. 17/12/2018	2018-19 to 2027-28	Plan Approved

Sr.No	Name of Protected area	Order No./date of approval of Tiger Conservation Plan/ Management Plan of WLS/ CR	Period of Plan	Remarks
32	Great Indian Bustard (GIB) WLS	Desk-22(8)/WL/M Plan/CR-756 (12-13)/4664/18-19 dt. 31/03/2019	2017-18 to 2026-27	Plan Approved
33	New GIB Sanctuary			
34	Ghodazari Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-6 (18-19)/4654/18-19 dt. 30/03/2019	2019-20 to 2028-29	Plan Approved
35	Anjenary Conservation Reserve	Desk-22(8)/WL/M Plan/CR-10 (19-20)/1032/19-20 dt. 19/6/2019.	2019-20 to 2024-25	Plan Approved
36	Isapur Wildlife Sanctuary	Desk-22(8)/WL/M Plan/CR-166Part-12(15-16)/1383/19-20 dt. 8/7/2019.	2019-20 to 2028-29	Plan Approved
37	Jaikwadi Bird Wildlife Sanctuary		2019-20 to 2028-29	The committee recommended approval of the plan with modification suggested meeting of tech. committee on dt. 29/01/2019
38	Umred Karandla Wildlife Sanctuary		2016-17 to 2025-26	The committee recommended of the plan with modification suggested meeting of tech. committee on dt. 7/6/2016
39	Chandoli National Park	TCP of STR Approved by NTCA vide letter dated 25/10/2013 For period from 2013-14 to 2022-23	2013-14 to 2022-23	Plan Approved
40	Koyna Wildlife Sanctuary			
41	Pench National Park	TCP of PTR Approved by NTCA vide letter No. F-1-2/2012-NTCA dated 24/9/2015 For period from 2013-14 to 2022-23	2013-14 to 2022-23	Plan Approved
42	Mansingh Deo Wildlife Sanctuary			
43	Melghat Wildlife Sanctuary	TCP for MTR Approved by NTCA For period from 2014-15 to 2023-24	2014-15 to 2023-24	Plan Approved
44	Gugamal National park			
45	Wan Wildlife Sanctuary			
46	Narnala Wildlife Sanctuary			
47	Ambabarva Wildlife Sanctuary	Tiger Conservation Plan Approved by NTCA For period from 2016-17 to 2026-27	2016-17 to 2026-27	Plan Approved
48	Tadoba National Park			
49	Andhari Wildlife Sanctuary			
50	Malvan Marine Sanctuary		Under Prepration	Under Prepration

Sr.No	Name of Protected area	Order No./date of approval of Tiger Conservation Plan/ Management Plan of WLS/ CR	Period of Plan	Remarks
51	Thane Creek Flamingo Sanctuary			Plan approved
52	Nagzira Wildlife Sanctuary	Tiger Conservation Plan Of Core submitted to NTCA , Buffer and other Plan under preperation		Plan under preparation
53	Nawegaon National Park			
54	New Nagzira Wildlife Sanctuary			
55	Koka Wildlife Sanctuary			
56	Navegaon Wildlife Sanctuary			
57	Bor Wildlife Sanctuary			Tiger Conservation Plan Submitted to NTCA in April 2018 for approval.
58	New Bor Wildlife Sanctuary			
59	New Bor Wildlife Extension Sanctuary			
60	Karanja Sohol Wildlife Sanctuary			Plan under preparation
61	Bhimashankar Wildlife Sanctuary			Plan under preparation

**ABSTRACT OF POSITION OF MANAGEMENT PLANS/CONSERVATION PLANS
(As on 9th June 2020)**

Sr.No	Details	Tiger Reserves	Other PA's (Not included in Tiger Reserve)	Total
1	Total Protected Areas	19	42	61
2	Total Management Plans/Tiger Conservation Plans	06 STR/PTR/ BOR/ MTR/TATR/NNTR	42	48
3	Total Management Plans/ Conservation Plans to be prepared	04 STR/PTR/ MTR/ TATR	35	39
4	Management Plans/ Conservation Plans Submitted for Sanction & are Under Scrutiny	01 BOR	03 Umred- Karandla, Jaikwadi, Bhimashankar	04
5	Management Plans/ Conservation Plans Under Preparation	01 NNTR	02 Malvan, Karanja Sohol	03

Source :- Desk-22(8),PCCF(WL)

2) TIGER RESERVES & ELEPHANT RESERVES

There are 6 Tiger Reserve in the State. The core and buffer of this Tiger Reserve were notified under Wildlife Protection Act' 1972. The details of Tiger Reserves are given in Table – 3 below. There is no Elephant Reserve in the State of Maharashtra, but there are 9 wild elephants which have migrated from Karnataka State and now habituating in Sawantwadi and Kolhapur Forest Divisions of Kolhapur Forest Circle.

TABLE-3

TIGER RESERVES IN MAHARASHTRA

Sr.No	Tiger Reserves	Area in Sq. Km.		
		Core	Buffer	Total
1	Melghat TR	1500.49	1268.04	2768.52
2	Tadoba-Andhari TR	625.82	1101.77	1727.59
3	Sahaydri TR	600.12	565.45	1165.57
4	Pench TR	257.26	483.96	741.22
5	Navegaon –Nagzira TR	653.67	1241.27	1894.94
6	Bor TR	138.12	678.14	816.26

Source :- Desk-23(2),PCCF(WL)

3) TIGER POPULATION ESTIMATION :

Tiger number estimation is done every four years at national level. Maharashtra State has 312 Tigers as per 2018 All India Tiger Estimation.

4) POACHING CASES OF TIGERS & LEOPARDS IN MAHARASHTRA STATE

TABLE-4

Sr. No	Years	Tiger/ Leopards	No. of tigers/ leopards died due to natural death	No. of tigers/ leopards died due to		Hunting U/s. 11(1) (a)	Total	Remark
				Accident	Poaching			
1	2015	Tigers	12	1	0	–	13	–
		Panthers	28	31	7	--	66	--
2	2016	Tigers	11	2	1	--	14	--
		Panthers	53	29	7	--	89	--
3	2017	Tigers	12	1	9	--	22	--
		Panthers	55	21	9	1	86	--
4	2018	Tigers	12	3	3	1	19	--
		Panthers	54	27	7	--	88	--
5	2019	Tigers	8	3	6	--	17	--
		Panthers	66	35	9	–	110	–

Source :- Desk-23(6),PCCF(WL)

5) MAN-ANIMAL CONFLICT

Various mitigation measures like installation of solar fence, forest resource dependency reduction, awareness etc. are implemented for reduction of man animal conflict. The payment of compensation and ex-gratia payments in case of injury, loss or damage to human life, cattle and crop is provided by the State Government. The details of cases and amount paid are given below.

TABLE-5

Expenditure under the head 2406 – 2366, 15- Other Expenditure for compensation paid in Case of Human loss/ Cattle loss and Crop Damage caused by Wild Animals

Sr.No	Financial Year	Total Expenditure (in crore)
1	2013-14	11.86
2	2014-15	12.50
3	2015-16	37.30
4	2016-17	37.87
5	2017-18	49.59
6	2018-19	65.58
7	2019-20	70.00

Details of Human death by Wild Animals and Compensation Paid

Sr.No	Financial Year	No. of cases of Human Death	Compensation Amount
1	2017-18	50	40000000
2	2018-19	36	40600000
3	2019-20	42	58500000

Source :- Desk-23(4),PCCF(WL)

6) STATUS OF DECLARATION OF ECO-SENSITIVE ZONES AROUND NATIONAL PARKS AND SANCTUARIES IN MAHARASHTRA

Eco-Sensitive Zones are areas around Protected Areas to prevent ecological damage caused by developmental activities around National Parks & Wildlife Sanctuaries. The purpose of declaring Eco-Sensitive Zones is to create some kind of “shock absorbers” to the Protected Areas by regulating & managing the activities around such areas. The basic aim is to regulate certain activities around National Parks & Wildlife Sanctuaries so as to minimize the negative impacts of such activities on the fragile ecosystem encompassing the Protected Area.

TABLE-6**POSITION OF NOTIFICATION OF ECO-SENSITIVE ZONES (ESZ)**

I	Number of National Parks	06	
II	Number of Wildlife Sanctuaries	49	
		No. of ESZ	No. of PAs
III	Number of Eco-Sensitive Zones finally notified	19	28
IV	Total No. of ESZs under Draft Notification	06	08
V	Total No. of ESZs under consideration of GOI for Draft Notification	09	10
VI	ESZs proposals under consideration of State Government	01	01
VII	ESZs proposals to be prepared	06	08
	Total	41	55

7) STATUS OF REHABILITATION OF VILLAGES FROM PROTECTED AREAS

1) Rehabilitation of Villages from Protected Areas

- After acceptance of an enquiry report submitted by Sub-Divisional Officer (Revenue) the villages to be relocated from Protected Area is finalized.
- The villagers who voluntarily accept the relocation are only rehabilitated.
- The relocation is implemented as per State Government Resolution.

G.R. No. WLP-1012/C.R.122/F-1, dated 3rd November, 2012 provides Option-I and Option-II for willing family as per their choice :-

Option-I :- A package of Rs.10.00 lakhs for each family is given

Option-II :- The families under this option are rehabilitated at new place where all civic amenities are provided, wherein each family is allotted a residential plot, up to 2.00 hectares of agriculture land, Rs. 2.00 lakhs for house construction and Rs.0.50 lakh as rehabilitation grant is given. G.R. No.WLP-0714/C.R.167/F-1 dated 12th October, 2015 now provides for cost of land acquired (calculated twice the ready recknor rates) and 100% solatium which becomes 4 times the cost of land. This amount is separate and above Rs.10.00 lakhs package.

PRESENT STATUS OF REHABILITATION IN MAHARASHTRA

1) No. of villages to be relocated from Tiger Reserves	- 80
2) No. of villages to be relocated from PAs	- 30
3) Total No. of villages to be relocated (1+2)	- 110
4) No. of villages relocated from Tiger Reserves up to March-2020	- 63
5) No. of villages relocated from other PA's (except TR)	- 03
6) Total No. of villages relocated up to March-2020	- 66
7) Villages remains to be relocated	- 44
8) Villages proposed to be relocated in 2020-21 (Malur-MTR, Rantalodi-TATR, Male & Vele -STR,)	- 4

8) VILLAGE ECO-DEVELOPMENT

A special State Plan scheme has been started under the title "Shyama Prasad Mukherjee Jan Van Vikas Yojana" from the year 2015-16. The scheme covers villages in buffer of Tiger Reserves, villages within 2 km from Sanctuaries and National Parks and designated corridors. A Special Financial Package of Rs.25.00 lakh per village is provided

under the scheme. The works for man-animal conflict mitigation, reduction of dependency on forest resources and up gradation of skill of villagers are under taken in the scheme. The details of villages covered under the scheme and financial assistance provided is given in Table 7 below.

TABLE-7

DETAILS OF VILLAGES COVERED

Sr. No	Year	Number of villages covered	Amount of financial Assistance Rs lakhs
1	2015-16	166	3,400
2	2016-17	176	4,250
3	2017-18	188	8,800
4	2018-19	197	8,800
5	2019-20	79	2,987
	Total	806	28,237

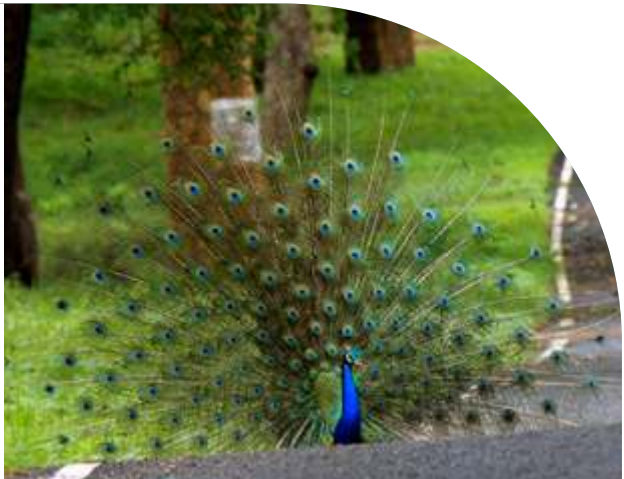
Particulars of Wildlife Funds received in 2019-2020

Sr. No	Kind of source of fund (State/CSS)	Name of Scheme	Grant received (in lakhs)	Expenditure incurred (In lakhs)
1	Centrally Sponsored Scheme	i) Project Tiger	10502	8437
		ii) Project Elephant	43.48	43.48
		iii) Integrated development of Wildlife Habitat		
		a) Management of PA's	877.053	855.1992
		b) Species Recovery Programme (GIB/Lesser Florican)	101.3185	101.3185
2	State Plan	i) Nature conservation , cages (2406-0775)	976.50	918.27
		ii) Dr. Shyamaprasad Mukharji Jan Van Vikas Yojna (2406-8711)	2987.93	2962.31
		iii) Rehabilitation of villages From Pa's (2406-2241)	1050.00	1050.00
		iv) Estt. of Wild Animal infirmaries (2406-2232)	1320.00	189.17
		v) Protection wall Under SGNP (4406-3849)	240.00	240.00
		vi) Establishment of Zoo at Goregaon (2406-8201)	60.00	60.00



Sr. No	Kind of source of fund (State/CSS)	Name of Scheme	Grant received (in lakhs)	Expenditure incurred (In lakhs)
3	CAMPA	Wildlife Management		
		i) Rehabilitation of villages in Protected areas of Wild life wings	3617	3517
		ii) Management of biological diversity and biological resource	116.77	116.77
4	FOUNDATION	i) Tadoba-Andhari Tiger Conservation Foundation	1700.00	1559.35
		ii) Pench/Bor Tiger Conservation Foundation	644.74	541.88
		iii) Melghat Tiger Conservation Foundation	273.38	268.00
		iv) Sahyadri Tiger Conservation Foundation	546.36	250.02
		v) Navegaon-Nagzira Tiger Conservation Foundation	116.20	57.69
		Total	3280.68	2676.94

G



BIODIVERSITY

G) Biodiversity

On June 5, 1992, in the United Nations Convention for Biological Diversity Conference held at Rio de Janeiro, it was decided to establish state rights over biological resources available in their jurisdiction. In this convention nearly 196 countries participated including India and 168 countries had signed the agreement. The Government of India has enacted this Biological Diversity Act, 2002 in the country since 2003. The Government of Maharashtra vide notification no. WLP-1009/CR-15/F-1 notified Maharashtra Biological Diversity Rules, 2008 on 10th December, 2008.

The implementation of the Biodiversity Act, 2002 is being implemented at three levels.

- 1) At the National level - National Biodiversity Authority (NBA)
- 2) State level - State Biodiversity Board (SBB) and
- 3) Local body level - Biodiversity Management Committee (BMC)

The three main objectives of the Biodiversity Act, 2002 are-

1. Conservation of Biological diversity
2. Sustainable use of its components,
3. Fair and equitable sharing of benefits arising out of utilization of genetic resources.

National Biodiversity Authority (NBA)

The Central Government has constituted the National Biodiversity Authority, with its headquarters at Chennai. The NBA is a Central Organization that communicates guidelines / information from time to time regarding the role of Biodiversity Board. It also provides grants for the constitution of Biodiversity Management Committees, and also for the preparation of Peoples Biodiversity Register.

State Biodiversity Board (SBB)

The Maharashtra State Biodiversity Board was established on 2nd January 2012. The Government of Maharashtra has constituted the Maharashtra State Biodiversity Board under section 22 (1) of the Biological Diversity Act 2002. The tenure of Chairman & Non-Official Member are completed therefore the post of chairman & non-official member are vacant.

Establishment of the board

According to Maharashtra State Government Resolution No.WLP-2009/15 / F-1, dt. 29/07/2013, the Maharashtra State Biodiversity Board has the posts of 8 officers / employees to be carried out Board's work.

Sr. No	Designation	No. of Post
1	Chairman, MSBB	1
2	DFO (Biodiversity)	1
3	PA to Chairman	1
4	PA to Member Secretary	1
5	Accountant	1
6	Clerk cum Typist	1
7	Peon	2
	Total	8

The Maharashtra State Biodiversity Board's headquarter is located at Nagpur and the sub-office is located in Pune.

At present the officers and staff of Maharashtra State Biodiversity Board are as follows.

Nagpur		
Sr. No	Designation	Number
1	Chairman	-
2	Member Secretary	01
3	Regular Employee 1 DFO, 1 Accountant	02
4	Retired Employee	04
5	Outsourcing Employee	04
6	Biodiversity Fellowship	02
	Total	13

Pune		
Sr. No	Designation	Number
1	Outsourcing Employee	02
2	Biodiversity Fellowship	01
3	Retired Employee	01
	Total	04

BMC

Maharashtra Government according to the resolution of Rural Development Department and the Ministry of Water Resources, Maharashtra State dated 2-5-2016, all the Chief Executive Officers, Zilla Parishad were directed to form Biodiversity Management Committees at all level of local bodies under their jurisdiction and advised to implement the Biological Diversity Act 2002. Accordingly all the CEOs have been informed by this office. There is a provision for establishment of Biodiversity Management Committee at local self government level under Section

49 of the Gram Panchayat Act, 1958. As per NGT's orders in court case number 347/2016 on dated 14/9/2019 on local self Government agencies should be constitute BMC in their jurisdiction at the end of 31/1/2020 otherwise the fine of RS.10 Lakhs per month will be imposed on failure state & fined amount will be deposited to central pollution control board till the completion of 100% BMC & 100% documentation of PBR. The status of formation of committees till March 2020 is as follows.

Sr. No	Local Self Government	Target	Achievement (Till March, 2019)	Percentage
1	Gram Panchayat	27876	27876	100%
2	Panchayat Samiti	351	351	100%
3	Zilla Parishad	34	34	100%
4	Nagar Palika / Nagar Parishad	238	238	100%
5	Nagar Panchayat	128	128	100%
6	Mahanagarpalika	27	27	100%
	Total	28654	28654	100%

The Maharashtra State Government is giving Rs. 20000/- grant for constitution of BMC. The funds distributed to the Biodiversity Management Committee are as follows.

Year	No. of BMC	Amount
2015-16, 2016-17	228	72,70,000
2017-18	1800	3,60,00,000
2018-19	2917	5,83,40,000
2019-20	0	0
Total	4945	10,16,10,000

PBR

There is a provision for documentation of PBR through Biodiversity Management Committee at local self government level under Section 41 of BDAAct,2002. As per NGT's orders in court case number 347/2016 on dated 14/9/2019 on local self Government agencies should be documents of PBR through BMC in their

jurisdiction at the end of 31/1/2020 otherwise the fine of RS.10 Lakhs per month will be imposed on failure state & fined amount will be deposited to central pollution control board till the completion of 100% BMC & 100% documentation of PBR .The status of documentation of PBR till March 2020 is as follows.

Sr. No	Local Self Government	Target	Achievement (Till March, 2020)
1	Gram Panchayat	27876	21097
2	Panchayat Samiti	351	52
3	Zilla Parishad	34	8
4	Nagar Palika / Parishad	238	225
5	Nagar Panchayat	128	120
6	Mahanagarpalika	27	24
	Total	28654	21526

The funds distributed to the Biodiversity Management Committee for preparation of Peoples Biodiversity Register (PBR) are as follows.

Year	No. of BMC	Amount
Till March 2017	90	51,85,000
2017-18	598	1,20,00,000/-
2018-19	514	1,02,80,000/-
2019-20	513	1,02,60,000/-
Total	1625	3,25,40,000/-

Public awareness, workshop & meeting

The capacity building and public awareness programmes for the local BMC member, Gramsewak, Chairman, junior and senior officers of the forest department, etc. are as under

Sr. No.	Year	No. of Workshop / Training Programme
1	2011-12	2
2	2012-13	3
3	2013-14	8
4	2014-15	14
5	2015-16	17
6	2016-17	21
7	2017-18	23
8	2018-19	54
9	2019-20	162
		Total 304– Participants –14,500

Biodiversity Conservation Project:

Financial Assistance have been sanctioned to the Biodiversity Management Committees in Sawantwadi, East Nashik, Pune, Yaval, Bhandara, Gadchiroli, Wadsa, Chandrapur and West Melghat forests for the purpose of implementing the selected biological diversity conservation scheme by the Board under the 13th Finance Commissioning the year 2014-15 and 2015-16. Mahseer Fish Conservation Project is also being implemented at West Melghat. In addition, scheme under the UNDP is being organized by the Board.

Maharashtra State Biodiversity Strategic Action Plan (MSBSAP)

MSBB had published advertisements in leading newspapers and floated an e-tender to invite proposals for the preparation of the MSBSAP. Following comparison of technical proposals and financial bids, the contract was awarded to the BharatiVidyapeeth Institute of Environment Education and Research (BVIEER). The MSBSAP has been prepared with the objective of aligning the Plan with the National Biodiversity Action Plan (NBAP) Addendum 2014 to the NBAP 2008, and the 12 National Biodiversity Targets.

During the preparation of the MSBSAP, fourteen workshops were conducted in which the

MSBB/NBA/UNDP, government officials, NGOs and local participants took part and provided inputs to further strengthen the brief and make it actionable and region specific, with a detailed output that could be directly implemented. Following extensive surveys, workshops, and several consultations with National Biodiversity Authority, UNDP, government departments, NGOs, renowned experts and local participants, an actionable strategy has been developed.

The MSBSAP is laid out in seven sections with an emphasis on Maharashtra Specific Strategy congruent with the NBAP. This phased program has been set up for 10 years and a list of priority actions have also been suggested which include:

1. Conservation and sustainable use of biodiversity in and around Protected Areas
2. Conservation of wetlands and biodiversity rich sites in the State,
3. Conservation of indigenous cultivars (paddy, sorghum, maize, bajra, small millets, beans, pulses and oilseeds, vegetables and wild tubers, and horticultural crops like mango, jamun, jackfruit,

bor, custard apple and tamarind)

4. Conservation of indigenous livestock (including indigenous cattle breeds like Gavlaui, Red Kandhari, Deoni, etc., indigenous poultry birds, goats, buffalo, sheep, and pigs),
5. Eradication, control, and regulation of introduction of invasive alien species like Lantana Camara, Eupatorium, Parthenium etc.
6. In-situ and ex-situ conservation of rare, endangered and threatened species of flora with a special focus on lateritic plateaus of the Western Ghats of Maharashtra and Konkan (which are an excellent habitat for endemic geophytes)
7. Conservation of endangered wildlife species (including the Gyps Vultures, Forest Owlet, Great Indian Bustard, Olive Ridley turtles, Golden Mahsheer fish, and others)
8. Conservation of natural heritage sites - sacred groves / Eco Sensitive Areas, and
9. Formation of State Biodiversity Coordination committee headed by the Chief Secretary of the Government of Maharashtra for inter-departmental monitoring, convergence, and coordination.

The MSBSAP was approved by the Maharashtra State Biodiversity Board during the Fourteenth Board meeting of the MSBB held on 07 September 2018. After receiving the approval from the Board, the MSBSAP was sent to the Government of Maharashtra for sanction on 04 December 2018.

Following the request for sanction, the Board received a query from the Government of Maharashtra on 02 January 2019 and a response to the query was sent to the Government on 28 January 2019.

Subsequently, Government of Maharashtra had sought the opinion of the office of the Principal Chief Conservator of Forests, Head of Forest Force, Maharashtra (PCCF-HoFF) on certain matters pertaining to the MSBSAP via letter dated 08 March 2019. As indicated in the letter, the MSBB had provided necessary information to the office of the PCCF-HoFF via letter dated 13 March 2019.

Identification of Biodiversity Heritage Sites:

The MSBB has received following proposals for identification and declaration of Biodiversity Heritage Sites.

1. 'Glory of Allapalli' in Gadchiroli district has been declared as BHS.
2. Landorkhori, Jalgaon (proposal submitted to Govt. of Maharashtra for declaration and notification of BHS vide letter no. MSBB/Desk-3/B.H.S/1264/2017-18 Dt.06.02.2018).
3. Ganeshkhind Garden, Pune (proposal submitted to Govt. of Maharashtra for declaration and notification of BHS vide letter no. MSBB/Desk-3/B.H.S/871/2017-18 Dt.31.10.2017).
4. Waddham fossil park Sironcha. (Proposal submitted to Govt. of Maharashtra for declaration and notification of BHS vide letter no. MSBB / Desk-3/B.H.S/ 1244/2017-18 Dt.02.02.2018).
5. Reserved forest areas, compartment no. 445, 441, 442 and protected forest no. of total area 766.326 Ha in district Gondia. (Under process).
6. Anjarle Tortoise conservation, Ratnagiri (under process).
7. Velas Tortoise conservation, Ratnagiri (under process).

Celebration of International Day for Biological Diversity in Maharashtra State

The International Day for Biological Diversity is celebrated on 22nd May at State and District level and various activities like organization of workshop, photography competition, essay / painting competition, exhibition of stalls, rally's, publication of posters / banners interviews at AIR and Doordarshan and cultural activities by participation of teachers and students, NGO's has to be taken.

The Nature Conservation Day is celebrated on July 27th with the cooperation of publicity, social forestry and any interested college.



Court Cases

Supreme Court	High Court	NGT	JMFC/Others	Total
08	06	8	02	24

The commercial use of biological resources and the Access and Benefit Sharing (ABS):

Under section 7 and 24 of the Biological Diversity Act, 2002, while accessing and utilizing biological resources for commercial utilization, the permission is required from Maharashtra State Biodiversity Board.

Access to Benefit Sharing

1	Section	Notice Issued	No. of cases Registered	Amt. Received	Provision
1	7 of B.D. A. 2002	1500	196	44,18,646	ABS amount
			196	9,80,000	Registration Fee
2	3 of B.D. A. 2002	-	64	-	-
3	6 of B.D. A. 2002	-	45	-	-

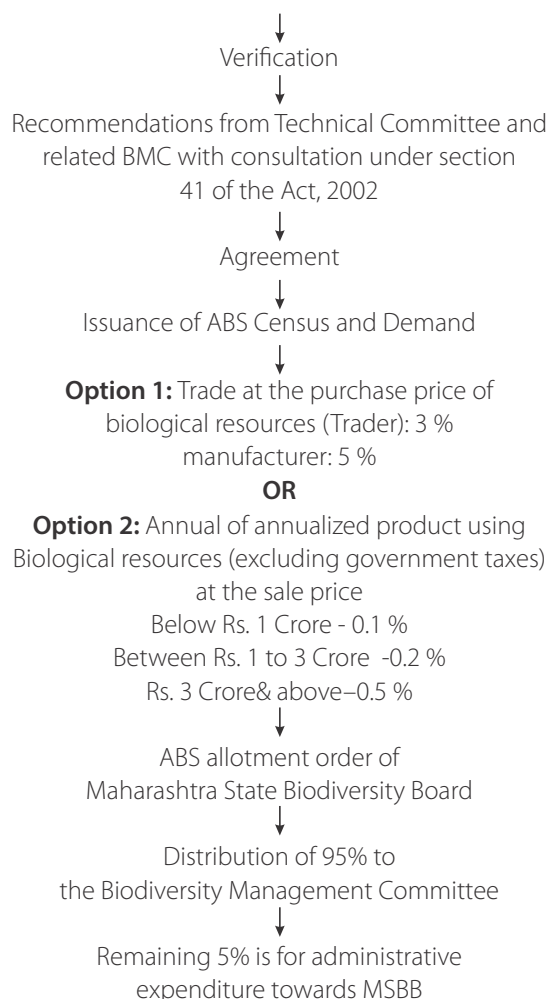
The Central Government has notified "Guidelines on Access to Biological Resources and Associated Knowledge and Benefit Sharing Regulation 2014", on 21 November 2014. In this notification, the procedure for distribution of benefits from commercial use of biological resources is mentioned. MSBB has constituted Techno Legal Advisory Committee to resolve the disputes and finalize the legal issues in case handling of applications. The process of receiving applications under Section 7 and 24 is as follows.

Power to file complaint if a violation of provisions in the Biological Diversity Act 2002

According to the notification issued on January 7, 2009, the Central Government has authorized officer not below the rank of Range Forest Officer to file complaint u/s 61 of the Biological Diversity Act, 2002 for violation of any provisions of the Act.

Process of Process and Equivalent Allocation Process Application

Commercial Use
↓
Maharashtra State Biodiversity Board
(Rule no.22 of Maharashtra Biological Diversity Rules, 2008 & Section 7 and 24 of B.D. Act, 2002) Application fee of Rs. 5000 / - only
↓



Annual Report of MSBB

The Annual Report of Maharashtra State Biodiversity Board for the period of 2017-18 was submitted to the State Government for approval and it has been approved by both the Houses of Legislature.

Website

The website of MSBB is www.maharashtrabiodiversityboard.gov.in. The Agreement has been signed between MSBB and C-DAC for up dation of website and installation of various software on website. The proposal of Rs. 44 lakhs is pending with state government.

Guidelines / literature / publication of MSBB

The following publications have been prepared for local administration and general public.

1. Maharashtra Biological Diversity Rules, 2008
2. Guidelines for constitution of Biodiversity Management Committee.
3. Revised Guidelines for preparation of Peoples Biodiversity Register.
4. Our Biodiversity, Our Wealth.

5. Dragonfly Farmers Friend
6. Spiders World
7. Threatened Birds of Maharashtra
8. Important Bird Areas in Maharashtra
9. Biodiversity of Maharashtra (English book)
10. Concept on Improved Chulla
11. Use of Solar Cooker need at Home
12. Schools Biodiversity Register
13. Conservation Project of Mahseer Fish in Melghat
14. Objectives of Sustainable Development of Biodiversity
15. Identification of Medicinal Plant and their use.
16. Introduction of medicinal plants & their utilization at home
17. Guidelines on Access to Biological Resources & Associated knowledge & Benefits sharing Regulations-201418. Kharpudi of Maharashtra (Kandil Pushpa)
19. Wild Vegetables in Maharashtra
20. Compendium of Rules, Notification & Guidelines regarding Application of Biological Diversity Act, 2002 in Maharashtra.
21. Law Journal - The Biological Diversity Act, 2002 Legal Dimensions of its implementation.
22. Biodiversity is a rich heritage



H



DEPLOYMENT OF ICT PROJECT IN FOREST DEPARTMENT

H) Deployment of ICT Project in Forest Department

The Maharashtra Forest Department had embarked on a program oriented deployment of Information and Communication Technology for improvement of forestry management since 2011-12. The ICT program is led by the PCCF (ITP) and the department has established a Project Management Unit Committee (PMUC) to oversee implementation of ICT. The department has an intranet portal with a suite of IT applications covering different areas of forestry management. The significant activities of the ICT Wing of the department in 2019-20 are as follows:

33-crore Plantation Program:

The department conducted its mass plantation drive during July 2019 to September 2019 for planting of 33-crore saplings within the state of Maharashtra. The department has developed a MIS and GIS application integrating all aspects of plantation management from pre-plantation works, actual plantations to post-plantation survival monitoring. The achievement of the 33-crore drive is as follows:



TABLE-1

(District-wise: Overall Sapling planted+ Sapling Distributed)

Final Report - 33 Crore Plantation Drive (1st July - 30th Sep 2019)

Sr No.	Plantation Achievement Online (sapling planted)						
	Name of district	Target as per GR dt 10.10.2016, 23.10.2017 & 06.09.2018	Online		Overall Sapling Planted Total (4+5)	Agro Forestry	Kanya Van Samru ddhi
			Forest	Non Forest			
1	2	3	4	5	6	7	8
1	Ahmednagar	11763850	61,24,934	57,55,776	1,18,80,710	49350	14800
2	Akola	6229500	36,03,915	36,20,027	72,23,942	30450	0
3	Amravati	11168900	60,54,926	51,98,495	1,12,53,421	20345	410
4	Aurangabad	11138450	46,33,479	86,10,916	1,32,44,395	3305	3810
5	Beed	12177350	53,71,860	88,52,306	1,42,24,166	3120	3310
6	Bhandara	5500088	30,65,317	24,88,256	55,53,573	0	15020
7	Buldhana	8240150	47,27,990	35,69,948	82,97,938	2390	9160
8	Chandrapur	17119488	1,15,83,853	57,86,610	1,73,70,463	0	36920
9	Dhule	6576100	41,49,831	24,52,159	66,01,990	0	3330
10	Gadchiroli	11208447	91,65,769	19,00,449	1,10,66,218	8500	8930
11	Gondia	8088970	48,87,600	29,48,884	78,36,484	0	10260
12	Hingoli	10138700	51,36,415	37,50,435	88,86,850	11000	1430
13	Jalgaon	11503100	61,17,910	54,11,266	1,15,29,176	0	2600
14	Jalna	10567450	34,02,900	84,29,269	1,18,32,169	142226	3040
15	Kolhapur	11322670	62,90,853	50,84,954	1,13,75,807	9200	46370
16	Latur	10811850	40,54,855	51,25,544	91,80,399	0	22032

TABLE-1**(District-wise: Overall Sapling planted+ Sapling Distributed)****Final Report - 33 Crore Plantation Drive (1st July - 30th Sep 2019)**

Sr No.	Plantation Achievement Online(Sapling Distributed)										Others	Overall Sapling Distributed Total (7 to 14)	Grand Total (6+15)
	Name of district	Sale of Seedlings	Rope aplya dari scheme	Malki Tree Felling Repla -cement	Bamboo Research & Training Center (BRTC)	Ballarpur Industries Ltd. (Bilt)	13			14			
1	2	9	10	11	12	13	13			14	15	16	
1	Ahmednagar	5165	112	0	0	0	0	0	0	0	69427	1,19,50,137	
2	Akola	3546	0	0	0	0	0	0	0	0	33996	72,57,938	
3	Amravati	62178	0	0	0	0	0	0	0	0	82933	1,13,36,354	
4	Aurangabad	17205	0	14184	0	0	0	0	0	0	38504	1,32,82,899	
5	Beed	25353	28147	26564	0	0	0	0	0	0	86494	1,43,10,660	
6	Bhandara	32007	782	35379	0	0	0	0	0	0	83188	56,36,761	
7	Buldhana	50972	100	0	0	0	0	0	0	40	62662	83,60,600	
8	Chandrapur	34985	0	0	88193	201	0	0	0	0	160299	1,75,30,762	
9	Dhule	2970	0	0	0	0	0	0	0	0	6300	66,08,290	
10	Gadchiroli	14270	28	5266	0	77375	0	0	0	0	114369	1,11,80,587	
11	Gondia	48939	255	148385	0	0	0	0	0	0	207839	80,44,323	
12	Hingoli	612	6411	40852	0	0	0	0	0	0	60305	89,47,155	
13	Jalgaon	2633	0	69988	0	0	0	0	0	0	75221	1,16,04,397	
14	Jalna	2486	0	5595	0	0	0	0	0	0	153347	1,19,85,516	
15	Kolhapur	213183	8086	0	0	0	0	0	0	0	276839	1,16,52,646	
16	Latur	23063	454	25881	0	0	0	0	0	0	71430	92,51,829	

Grand Total- 35,13,76,361

Sr No.	Plantation Achievement Online(Sapling Distributed)										Grand Total (6+15)
	Name of district	Sale of Seedlings	Rope aplya dari scheme	Malki Tree Felling Repla -cement	Bamboo Research & Training Center (BRTC)	Ballarpur Industries Ltd. (Bilt)	Others	Overall Sapli- ng Distributed Total (7 to 14)			
1	2	9	10	11	12	13	14	15	16		
17	Mumbai City	21428	353	0	0	0	0	21781	50,985		
18	Mumbai Suburban	51120	168	0	0	0	0	51288	3,92,393		
19	Nagpur	71717	36417	251181	0	0	0	371765	95,27,237		
20	Nanded	45903	0	184124	0	0	0	251067	1,88,29,256		
21	Nandurbar	3153	344	0	0	0	0	120687	96,81,031		
22	Nashik	136851	176607	0	0	0	0	339661	2,02,60,054		
23	Osmanabad	10041	400	11251	0	0	0	127392	1,02,48,539		
24	Palghar	203279	658	5753	0	0	0	305473	83,39,376		
25	Parbhani	10055	1350	465	0	0	0	122690	1,02,57,677		
26	Pune	52740	1127	200	0	0	0	147902	1,48,28,480		
27	Raigad	106856	4025	76752	0	0	0	201803	92,30,272		
28	Ratnagiri	175438	0	0	0	0	0	675440	57,80,648		
29	Sangli	27855	8277	2525	0	0	0	54397	75,77,546		
30	Satara	49376	970	0	0	0	0	69006	1,26,73,759		
31	Sindhudurg	154634	2203	57664	0	0	0	472704	47,05,777		
32	Solapur	79270	2209	0	0	0	0	186455	73,28,791		
33	Thane	259721	2579	200847	0	0	0	491402	70,68,551		
34	Wardha	838	0	206692	0	0	0	209270	78,87,313		
35	Washim	13178	0	0	0	0	0	29988	43,69,289		
36	Yavatmal	21586	0	892	0	46000	0	82838	1,33,98,533		
Total Final		2034606	282062	1370440	88193	123576	40	5916162	35,13,76,361		
Grand Total- 35,13,76,361											

Green Army:

The Green Army was conceptualized as a volunteer initiative to augment the efforts of the department in environment protection and conservation. A web application as well as mobile application was developed for registration for the initiative. The portal was also used by Non-Forest Department agencies for registration of their plantation efforts.

1926-Hello Forest:

The Maharashtra Forest Department has established a central toll free number "1926-Hello Forest" in January 2017. The call centre continued to successfully function in 2019-20 the month wise details of calls received at the centre are as follows

Month	Answered Calls		Total	Dropped Calls	Total
	Emergency	Non-Emergency			
April 2019	456	3913	4369	99	4468
May 2019	399	2942	3341	140	3481
June 2019	404	3192	3596	143	3739
July 2019	662	6165	6827	249	7076
August 2019	489	5878	6367	139	6506
September 2019	446	5065	5511	208	5719
October 2019	380	3427	3807	80	3887
November 2019	387	3809	4196	86	4282
December 2019	270	2800	3070	52	3122
January 2020	306	3172	3478	63	3541
February 2020	346	3182	3528	60	3588
March 2020	288	2012	2300	58	2358
Total	4833	45557	50390	1377	51767

Inauguration of GIS Portal

The customized geo-portal of the department was inaugurated by the Hon'ble Minister (Finance and Revenue, Forests) at the Senior Forest Officers' Conference held on 30, 31 May 2019.



The following Department MIS and Geo Spatial data has been integrated on the geoportal:

1. Administrative Boundaries:

- a. Forest Admin Boundaries up to compartment level.(Circle, Division, Range, Round, Beat, Compartment)
- b. Revenue administrative boundaries up to Village level.(District, Tehsil, Village)

2. Plantation Data:

Plantation data for the 50-crore plantation program held during the years 2019, 2018 and 2017.

3. Forest Fires:

- a. Forest Fire incidents from 2012 to 2019 (FSI point data, compartment number wise).
- b. Fire Intensity Map from 2012- 2018.
- c. Near Real time Forest fire incident Web Map service (WMS) is integrated to MFD Geoportal from Forest Survey of India since 9th Jan 2019.

4. Tiger and Leopard death (84 death incidents)

5. Geographical Features:

- a. Maharashtra Drainage Network
- b. Maharashtra Contour
- c. Slope Map.
- d. Soil Map.
- e. Watershed.
- f. Rail and road networks.

6. Forestry Data:

- a. Prima Facie Encroachments.
- b. Check Post Nakas (total no 434 check naka).
- c. Nurseries (total no 2150).

7. Raster Data Sets:

- a. Forest Cover Change-2015-16
- b. Forest Type (19 categories of forest types)
- c. Forest Change Cover-2017
- d. Maharashtra DEM Image-(12.5.m Spatial Resolution).
- e. Classified DEM.
- f. Sentinel High resolution Satellite Images-2016 and 2018 (10 m resolution)
- g. LULC-2015-2016

8. Geo-spatial models developed up to March 2020:

- a. Spatial Model for Coupe Treatment Map.
- b. Spatial Model for Automatic calculation of Forest Fire burnt area assessment by using AI and ML techniques.
- c. Spatial model for Encroachment Analysis using AI and ML technology.
- d. Spatial model for Plantation site Suitability.
- e. Spatial model for Watershed treatment Map

GIS Work carried out by the GIS Cell:

1. Plantation Treatment Maps.
2. Coupe Treatment Maps.
3. Download and Upload Sentinel Satellite Images on MFD GIS portal.
4. Forest Cover Change Analysis using Sentinel satellite Imagery of 2016-2018. (10 m spatial resolution).
5. Creation of NDVI model.
6. Uploading Vanyukt Shivar plantation survival data ZIP SHIP data on Daily Basis (October and May Count every year).
7. Monitoring Apollo & GeoMedia WebMap Server Daily.
8. 5000 Ha selecting area for implementing Catchment Area Treatment Plans (Amravati Division) using LiDAR survey will be carried out by MoEF & CC, GOI.
9. GIS Database correction of MFD Admin Boundaries- Range, Round, Beat
10. GIS shape files correction of MFD Admin Boundaries- Range, Round, Beat.
11. Maharashtra Forest Cover Change Report for 2005-06 to 2011-12 completed and published in April 2017.

Capacity building Activities of the GIS Cell:

- The GIS Cell conducted training of MFD Geo Portal for CCFs, DCFs, RFOs of Vidarbha region were carried out on 4th December 2019
- The GIS Cell organized 03 Training sessions on Basics of Geo Media Professional, ERDAS Imagine regarding use of Satellite imagery for Forest Density Classification for 150 end user (DCFs, ACFs, RFOs, Forest Guard, Surveyors) as work of capacity building, during 2017-18.



The Maharashtra Forest Cover Change Report 2011-12 to 2015-16:

The Maharashtra Forest Cover Change Report for forest cover change from 2011-12 to 2015-16 was released by the Hon'ble Minister (Finance and Revenue, Forests) at the Senior Forest Officers' Conference held on 30, 31 May 2019.



Recognition for ICT Initiatives of Maharashtra Forest Department

The Digital Forest Governance Project of the Maharashtra Forest Department was conferred the Ninth JSW-Times of India Award for Innovation in Climate Action, in November 2019, for adopting an integrated approach to afforestation with holistic Information Technology interventions from plantation management to post plantation survival monitoring.

Maharashtra Forest Department was awarded with the 9th JSW-Times of India Earth Care Award for the Plantation Management Information System (PMIS) developed for 50-Crore Plantation Drive recognizing

Maharashtra Forest Department's efforts to solve complex climate change challenges. The Plantation Management Information System (PMIS) was developed to ensure near real-time Plantation monitoring. The system comprised a real time monitoring of massive plantation drive and monitoring of survival rate and vegetation condition on real time basis. The award recognized all three phases of Plantation Management Information System (PMIS) which involves Pre-plantation Monitoring, Plantation Monitoring and Post-Plantation Survival Monitoring.

Leading by an example, Maharashtra Forest Department made optimum use of Information Technology, which helped create speedier and most importantly, people-oriented administration, an unique initiative to help digitally record the plantation achievements which was never attempted previously. With these developments and ease in work culture, it has translated into higher success rates, improved participation from public and Non-forest stakeholders in the State. The total cumulative achievement of 50-Crore Plantation Drive (from 2016 to 2019) stands at Plantation achievement of 59.26 Crore on 5.88 lakhs Plantation Sites with participation of 1.56 Crore participants. Maharashtra Forest Department also unveiled a postal envelope to ensure increased public participation in 33-Crore Plantation Drive and to raise awareness on importance of plantation. Hon'ble Minister Shri Sudhir Mungantiwar, to make 33 crore plantation drive a public movement held meetings with all public representatives from Sarpanches to MLAs and MPs.

The Earth Care Awards (ECAs) is a joint initiative of JSW and The Times of India group, the campaign highlights locally evolved climate friendly practices in the production and consumption regimes across multiple sectors with special reference to climate change. The award recognizes, verifies, and promotes the replicable initiatives and interventions on the greenhouse gasses (GHG) emission reduction, natural resource conservation, energy efficiency improvement, development and promotion of innovative eco-friendly alternatives across various sectors of development. Maharashtra Forest Department's Plantation Management Information System (PMIS) was chosen winner in the Innovation in Climate Action category, this Award category focuses on development and use of innovative products or services, policies which help in reducing the greenhouse gas emissions and building resilience. Other categories includes Community Based Mitigation And Adaptation In

Water Resources, Agriculture, Forestry, Other Land Use, Animal Husbandry And Climate Risk Proofing, Leadership in Urban Climate Action, GHG Mitigation in Large Enterprises and Leadership of Women Led Enterprise in Climate Action. A total of 109 applications were received in the said category, the award was presented after field assessment of plantation sites conducted by evaluation panel and presentation made before the jury led by Shri R.A.Mashelkar, F.R.S, Shri Kartikeya V Sarabhai, Shri Rajendra Shende, Ms Anita Benninger, Shri Rajat Gupta, Dr. Ajay Mathur, Dr. Suhas Wani and Dr. Rakesh KR Singh.

The award was presented by Shri C. K. Mishra, Secretary, Ministry of Environment, Forest & Climate Change, Government of India, Dr. Raghunath Mashelkar, F.R.S,

President, Global Research Alliance, Mrs. Sangita Jindal, Chairperson, JSW Foundation and Shri. Nandan Srinath, Director, Times of India Group to Shri Vikas Kharage, Principal Secretary (Forests), Government of Maharashtra, Shri U.K.Agrawal, Principal Chief Conservator of Forests (Head of Forest Force) and Shri M.K.Rao, Principal Chief Conservator of Forests (Information, Technology and Policy) at New Delhi on 13th November 2019. Maharashtra Forest Department was awarded a Certificate, Trophy and Winning Prize Amount of Rs 3 lakhs, the proceeds received from the recognition will be used for forestry initiatives. This recognizes the sincere work by the staff of Maharashtra Forest Department, Non-forest stakeholders along with all sections of society.



Maharashtra Forest Department was awarded with the 9th JSW-Times of India Earth Care Award

The Plantation Management Information System (PMIS) developed under the ICT project was conferred with the Computer Society of India (CSI) Award of Appreciation under the category of State Department Projects at an award ceremony held on 17-Jan-2020. Maharashtra Forest Department was awarded with the Award of Appreciation under the category of State Government Projects at the CSI SIG e-Governance Awards 2019-20. The award is for the Plantation Management Information System (PMIS) developed for 50-Crore Plantation Drive

recognizing Maharashtra Forest Department's efforts to solve complex climate change challenges. The Plantation Management Information System (PMIS) was developed to ensure near real-time Plantation monitoring. The system comprised a real time monitoring of massive plantation drive and monitoring of survival rate and vegetation condition on real time basis. The award recognized all three phases of Plantation Management Information System (PMIS) which involves Pre-plantation Monitoring, Plantation Monitoring and Post-Plantation Survival Monitoring.



The award was presented by Shri. Tarun Vijay, Chairman, National Monuments Authority and Shri. Tusharkanti Behera, Hon'ble Minister of Electronics and Information Technology, Sports and Youth Services, Government of Odisha to Shri M. K. Rao, Principal Chief Conservator of Forests (Information, Technology and Policy), who represented the Maharashtra Forest Department on 17th December 2019 at the 53rd Annual Convention of the Computer Society of India held at Bhubaneswar.



I



ZOO AUTHORITY

I) Zoo Authority

The Zoo Authority of Maharashtra, Nagpur (ZAM) was created vide Government of Maharashtra, Revenue and Forest Department's Resolution No. WLP 0515/C.N.150/F-1 dated 30.12.2015 working under overall control of the Principal Chief Conservator of Forest (Wildlife), Maharashtra State, Nagpur and Chief Wildlife Warden of Maharashtra. It is headed by the Member Secretary of the cadre of Chief Conservator of Forests. The creation of The Zoo Authority of Maharashtra is in the form of society registered under Society Registration Act, 1860. It is also registered as Public Trust under Mumbai Public Trust Act, 1950.

To make policy decisions of the Maharashtra State Zoo Authority, under the Chairmanship of the Minister (Forests), Maharashtra State, 15 members Governing Council has been formed and in order to execute the rules set by the Governing Council, 8 members Executive Council is formed under the Chairmanship of Principal Chief Conservator of Forests (Wildlife) Maharashtra State, Nagpur vide Govt of Maharashtra, Revenue & Forest Department G.R. No. WLP 0515/C.N.150/F-1 Dated 28 January, 2016. Chief Conservator of Forests and Member Secretary is the Member Secretary of both the Governing Council and Executive Committee. There is a provision to carry out functions of Maharashtra State Zoo Authority through CCF & MS.

Objective

Creation of The Zoo Authority of Maharashtra is for taking necessary steps to perform works given as under

1. Development of zoos in the state, their control, regulation and up-gradation.
2. To take decision about animal species and numbers to be housed in zoos,
3. Giving technical advice.

4. To frame criterion and also to monitor for ensuring availability of animals in zoos (by way of transfer or exchange from zoos outside the state).
5. Provide technical help to prepare master plan for management of zoos and to monitor its implementation.
6. Conservation of endangered wild animal species.
7. To undertake research projects and their monitoring.
8. To disseminate information about zoos to people and to take measures to spread compassion towards wild animal.

As the Chief Wildlife Warden of the State is burdened with various issues related to wildlife management including sensitive issues like Man-animal conflict, it is very difficult for him to pay proper attention to issues related to Zoos operated by various agencies other than Forest Department, the State Government created the Zoo Authority of Maharashtra to control and monitor Zoos in State. List of the Zoos, Rescue Centres in the State of Maharashtra is given at the end of this note.

Limitations

The Zoo Authority of Maharashtra is neither vested with any statutory powers under the Wildlife (Protection) Act, 1972, nor it has any financial control over the zoos. As Central Zoo Authority, New Delhi constituted by the Central Government has absolute powers under the Wildlife (Protection) Act, 1972 to exercise the powers conferred to it including recognition, suspension or cancellation of recognitions of zoos as well as shifting of animals to other zoos, the Zoo Authority of Maharashtra has no role play. However, in pursuance of objective of The Zoo Authority of Maharashtra, since its inception in the year 2016, the Zoo Authority of Maharashtra had endeavoured to achieve objectives set even within the limited financial and administrative power vested with it.

The steps taken to achieve objective by The Zoo Authority of Maharashtra include:

1. Inspection of zoos, in addition to inspection by Central Zoo Authority, with respect to captive animal management, veterinary care, visitors facility etc. in accordance to rules and guidelines by Central Zoo Authority.
2. Providing technical advice to zoos regarding management, development and progress of zoos.
3. Ensuring passage and proper understanding of instructions from Central Zoo Authority to the zoos and monitoring of their implementation.
4. Facilitating approval for exchange and transfer of animals from Central Zoo Authority even from zoos outside the state through Chief Wildlife Warden, Maharashtra State.
5. Printing and distribution of publications including booklets, folders, publicity through hoardings and banners etc. amongst people to make them aware about the objective of zoos and compassion towards animals.
6. Taking steps to ensure proper understanding of statutory provisions and guidelines related to zoo management and its proper implementation within zoo managers.
7. Technical scrutiny of master plan and master layout plan and forwarding them to Central Zoo Authority as well as monitoring of their implementation.
8. Ensuring understanding regarding various aspects about management of zoos and also creation of synergies amongst stakeholders like forest officers, zoo directors, veterinary officers, biologists, officials of municipal corporations, NGO etc. through organisation of workshops, conducting exposure tours to other zoos including zoos outside the state.
9. Steps have been initiated to allot grants to the zoos and rescue centres from state funds aimed at bridging gap of funds for the compliance of directives given by CZA in its evaluation report.

Budgeting

Presently, the Zoo Authority of Maharashtra receives grants under the budget distribution system (BEAMS) from APCCF (BPD) under various detailed heads. The same is being utilised by the office of Zoo Authority of Maharashtra.

J



Photo by : Raman Kulkarni

ECOTOURISM BOARD

J) Ecotourism Board

Maharashtra State notified its Ecotourism Policy in 2008 with following objectives:

- ▶ Nature Conservation by adopting low impact tourism
- ▶ Engaging local communities with a view to provide livelihood options and promoting the local traditional culture.
- ▶ Providing nature education to create awareness among the public.
- ▶ Providing best possible services to the visitors by enrich their experience with nature.

To fulfill the above objectives Maharashtra Ecotourism Development Board was established in December 2015. More than 350 Ecotourism destinations have been identified throughout the State. Expert Committee / Executive Committee of the Board have approved around 187 project proposals since 2012. So far 43 Ecotourism projects have been completed in the State.

The sanctioned budget and expenditure incurred in developing these ecotourism projects till the Financial Year 2019-20 is shown in the table below:

Financial Year	Grants Sanctioned (in Lakhs)	Expenditure (in Lakhs)
2012-13	816.83	604.42
2013-14	768.10	613.42
2014-15	1600.00	1389.74
2015-16	10069.00	9134.24
2016-17	5674.88	4678.83
2017-18	8000.00	7327.80
2018-19	8400.00	7389.95
2019-20	3400.00	2746.25

Present Status

During the FY 2019-20, a budget outlay of Rs. 3400.00 Lakhs was sanctioned under the budget head 2406-2295. Accordingly the project proposal was submitted to the Government of Maharashtra. Finally the State Government had approved 31 project proposals and released an amount of Rs. 2746.25 Lakhs.

For the FY 2020-21, a budget outlay of Rs. 5000.00 Lakhs has been proposed for the development of various Ecotourism sites in the State.

In addition to this proposal, a budget outlay of Rs. 4500.00 Lakhs has been granted to Maharashtra Tourism Development Corporation (MTDC) for developing Ecotourism Sites in the State.

Information regarding the footfall and revenue realized from the prominent Ecotourism destinations is given in the following table:

Year	Visitors Footfall (in Lakhs)	Revenue (in Lakhs)
2017-18	17.96	1934.19
2018-19	21.16	2167.36
2019-20	19.56	2232.19
Total	58.68	6333.74

In order to cater the technical inputs to the Field Officers, 15 Architect firms were empanelled by the Board which was approved by Government of Maharashtra for a period of 3 years.

The Board has appointed M/s Grassroots Research and Consultancy, Mumbai, for a feasibility study on potential Ecotourism destinations in the State with a broad view of preparing a Vision document which will help in developing the ecotourism destination in a priority basis. The preparation of Vision document is in the final stage.

K



**MAHARASHTRA BAMBOO
DEVELOPMENT BOARD**

K) Maharashtra Bamboo Development Board

Growing attention of society towards bamboo as non timber forest produce, is not accidental. Bamboo may well contribute to the sustainable development of Maharashtra. There are two markets for the bamboo: traditional and new markets. The traditional market covers traditional commodities such as bamboo handicrafts, furniture, scaffoldings, shamianas and other conventional products. The traditional market is significant and still growing, although experiencing problems of increasing labour cost. The second market is a relatively new phenomenon. It includes industrial new bamboo based products such as pulp, paper, boards, panels, veneer, laminates, strand woven wood, charcoal, eatable bamboo shoots, ethanol and even bamboo cloth. Bamboo fibre has proven to be an excellent environment friendly (and in some cases technically

superior) substitute for wood. The recent development of bamboo is often referred as the “Golden revolution”, compared to the “green revolution” which chiefly resolved the food supply issue some decades ago. It seems that on-going “Golden (bamboo) revolution” may help to resolve wood supply problems in future and reduce environmental pressure on forests. The bamboo plant and its potential is such that it has potential to provide economic security to the farmers who suffer from vagaries of monsoon as bamboo is not affected by such monsoon uncertainties. The bamboo plantation will achieve the sustainable forest management by ensuring greenery (as first and second year bamboo are maintained) and getting productivity continuously (only third year bamboos are harvested).

To give boost to Bamboo sector Government of Maharashtra took many initiatives

1. Maharashtra Government boosted Bamboo sector in the year 2014 by starting Bamboo Research and Training centre (BRTC) at Chichpalli, Chandrapur District in the year 2014 for Research and Training program on Bamboo in the state (BRTC trained 1000 women on bamboo craft).
2. A 2 lakh square feet iconic bamboo structure is being built at Chichpalli and is one of its kinds in India.
3. In the year 2016 Maharashtra Bamboo Development Board has been established for all round development of Bamboo sector in Maharashtra State.
4. Maharashtra is the first state in the country to remove felling and transit (Transit Pass/TP) restrictions on Bamboo in April 2017. This resulted in taking massive interest in bamboo plantations in the state by farmers.
5. Government of India followed by amending Indian Forest Act 1927 by bringing bamboo into grass category from tree thus bamboo has been removed from felling and transit permissions in November 2017.
6. A diploma in Bamboo technology has been started at Chandrapur, a two year program training 20 students every year.
7. Eight training centres or Common Facility Centres (CFCs) five at Chandrapur, one at Pune, Rahuri and Amravati has been started for making handicrafts and furniture.

8. A bamboo shop has been established at balodhyan at Seminary hills Nagpur as a shopping window for artisans of Vidharbha. Similarly such bamboo shops will be established in each district of Maharashtra.
9. MBDB and BRTC have entered into a MOU with ITC and Cycle Pure brand for making Agarbatti in Maharashtra as a livelihood program in Gadchiroli and Chandrapur.
10. A bamboo tooth pick making unit has been started at Pomburna, it is first unit in Maharashtra and second after Assam in India.
11. Maharashtra forest department is promoting bamboo plantations on farmers fields through MGNREGA, National Bamboo Mission and Atal Bamboo Samruddhi Yojana (one crore fifty three lakhs tissue culture seedlings).
12. Maharashtra Forest department is also connecting with financial institutions like State Bank of India, NABARD for financial arrangements to the farmers.
13. Maharashtra Forest Department is also making efforts to develop energy opportunities like CNG gas, ethanol, and bio diesel from bamboo. Discussions with energy industry have been initiated with multinational companies like VTARA, IH2 and Shell incorporation for establishing bamboo energy units in Maharashtra.
14. Bamboo Promotion foundation has been set up by Govt. of Maharashtra for corporate involvement as part of bamboo sector development and to ensure institutional memory and continuity. It is set up with a corpus fund of 50 crores, a onetime contribution of 20 crores (40%) from Maharashtra Government and rest is invited from private sector in Maharashtra.
15. Atal Bamboo Samruddhi Yojna is implemented by Maharashtra Bamboo Development Board as per GR dated 28 June, 2019. The Panel of suppliers of tissue culture bamboo plants has been finalised by this board. The applications from farmers are invited through offline and online mode through website www.mahaforest.gov.in The scheme provide 600 plants per farmer and the cost of plants is subsidised @80% for the farmers having land holding below 4 hectares and @50% for the farmers having land holding above 4 hectares. A total of Rs. 25 crore has been provided.
16. Under National Bamboo Mission scheme Rs. 16.08 crores grants was released by the Government for 2018-19. The common facility centres in 11 forest circles of Maharashtra Furniture making units treatment plants, Bamboo waste management plants, Bamboo Bazaar, 100 hectares High Density plantations & 48 demo plots, are being raised in various circles of forest Department. Under the National Bamboo Mission, a Common Facility Centres, Furniture making, Bamboo treatment plants etc. will be started and a fund of Rs. 16.08 lakh has been allotted to them. It is proposed to set up a Common Facility Centres in Maharashtra at the following places.

Sr.No.	Name of Circles	Amount
1	FDCM	90 Lakhs
2	Gadchiroli	65 Lakhs
3	Yavatmal	50 Lakhs
4	Thane	15 Lakhs
5	Kolhapur	30 Lakhs
6	Pune	25 Lakhs
7	Chandrapur	15 Lakhs
8	Nagpur	30 Lakhs
9	Aurangabad	50 Lakhs
10	Nashik	15 Lakhs
11	Amravati	30 Lakhs
12	NIPHT, Pune	30 Lakhs

The potential of bamboo is discussed in this Bamboo investment summit by various experts on bamboo and invite active participation of corporate sector and potential investor in Bamboo sector. It will provide big support to the rural sector in Maharashtra by providing market to the bamboo grown on farmer's fields and also providing employment to rural youth in a very big way.

The following grants are received by Maharashtra Bamboo Development Board in 2019-20

Sr.No.	Head	Amount in Lakh
1	General (60% Central Share & 40% State Share)	711.83
2	T.S.P (60% Central Share & 40% State Share) (Including unspent total amount of 2018-19 Rs. 84.92)	261.82
	Total	973.65

Online application for planting under National Bamboo Mission is being invited on the Forest website mahaforest.gov.in.

17. Ballarpur Industries Ltd. needs bamboo for the paper industry. The company signed with the board in the year 2018 to purchase the bamboo at the rate of Rs.3500/- per ton. Now the purchase rate of bamboo is Rs. 5000/- per ton.
18. A total of 7,09,707 tissue culture bamboo saplings have been distributed to farmers in Maharashtra through the Maharashtra Bamboo Development Board office.
19. Maharashtra Bamboo Development Board has made a proposal for setting up a bamboo based industry under the National Bamboo Mission. The proposal is being invited. It also proposes bamboo handicrafts, furniture making, bamboo treatment plant, jewellery making etc.

To promote the bamboo and handicrafts the following awareness programs/workshop are conducted. The list is as given below.

- 1) MBDB participated in exhibition of Agro Vision Nagpur from 10 to 13 Nov.2017. The handicrafts were exhibited
- 2) MBDB participated in exhibition of Krushi Vigyan Kendra Baramati from 19 to 23 January, 2018 at Pune. Handicrafts of BRTC were exhibited.

- 3) Training was given by MBDB from 20 to 28 May, 2018 at Amravati for Bamboo Plantation Technique to all territorial field employees.
- 4) Agricultural fair was organized. Workshop was taken MBDB on dated 01 Oct. 2018 at Jalgaon.
- 5) MBDB participated in exhibition of Agro Vision Nagpur from 23 to 26 Nov. 2018. The handicrafts were exhibited
- 6) MBDB participated in exhibition of Krushi Vigyan Kendra Baramati from 19 to 21 January, 2019 at Pune. Handicrafts of BRTC were exhibited.
- 7) Bamboo promotion program was organized by MBDB on 3 Feb, 2019 at Radisson Hotel, Nagpur.
- 8) A program was conducted in Bombay Stock Exchange, Mumbai for investment in Bamboo Sector by corporate was organized by MBDB on dated 19 Feb, 2019.
- 9) MBDB participated in exhibition of Dehradun, Uttarakhand 2019 from 18 to 20 July, 2019.
- 10) MBDB participated in exhibition of Agro Vision Nagpur from 22 to 25 Nov. 2019. The Handicrafts from BRTC and private artisans were displayed and sold in the exhibition.
- 11) MBDB participated in exhibition of Krushi Vigyan Kendra Baramati from 16 to 19 January, 2020 at Pune. Handicrafts of BRTC were exhibited.
- 12) MBDB participated in exhibition of Jagtik Krishi Mahotsav from 23 to 27 January, 2020 at Nashik. Handicrafts of BRTC were exhibited.



L



**BAMBOO RESEARCH AND
TRAINING CENTRE, CHICHPALLI**

L) Bamboo Research and Training Centre, Chichpalli

Introduction

Chandrapur district is located in the eastern edge of Maharashtra in Nagpur Revenue Division and forms the eastern part of 'Vidarbha' region. Physiographically, the district is situated in the Wainganga and Wardha river basin. The area has a wide and rich range of flora and fauna. Teak and Bamboo dominate southern deciduous forests. Having about 41.98 % of forest area when compared to total district area, large extent people are dependent upon the forest produce directly or indirectly. About 68.42% of the total population resides in rural area.

Chandrapur and its adjoining districts Gadchiroli, Bhandara, Nagpur & Gondia are rich in Bamboo Forest. *Dendrocalamus strictus* is the most common species while *Bambusa arundinacea* (Katang) is commonly seen on the sides of Nallas and on River banks. Bamboo popularly is known as a poor man's timber. It is used by the Burad community to prepare bamboo articles while the local people use it mostly in construction of huts, houses, cattle sheds, fencing etc. Bamboo is also used in a number of industries such as Paper and Pulp, furniture, decorative articles, Ice cream, Agarbatti, etc.

Employment and Livelihood generated through conventional use of Bamboo is minimal and mostly seasonal. In view of this the Government of Maharashtra decided to enhance the skills of local Bamboo Artisans by providing latest technology & trades and thereby provide them better livelihood opportunities and to bring them in the main stream through economic development in the field of Bamboo by setting up an institute in this region.

Establishment

Maharashtra State Government through Government Resolution bearing No. Esst-2014/SI.No-64/Part-2/F9/Mantralay, Mumbai **Dt. 04-12-2014** formed **"Bamboo Research and Training Centre, Chichpalli** (BRTC), Dist. Chandrapur, M.S. In order to have an Autonomous status to this institute, "BRTC Society" is registered under Society Act, 1860 & Bombay Public Trust Act, 1950 bearing Society Regd. No. MAH/210, Dt. 15.07.2015 and Trust Regd. No. F-13840 (Chandrapur) Dt. 20.08.2015.

Infrastructure

The full-fledged institute is coming up at Chichpalli, about 22 Kms away from Chandrapur with uniquely designed Bamboo Structures at survey No.6/1 with area of 8.99 hectare. The Buildings of BRTC is made up of Bamboo and Rammed Earth with International Standards. Infrastructure of BRTC is recognized as Asia's largest Eco-friendly Bamboo building by international Singaporean magazine **"FUTURARC"** and also GRIHA recognized BRTC Infrastructure as Sustainable Building Materials/Technology and awarded GRIHA **"Exemplary Performance Award"** at 11th GRIHA Summit 2019.

The Infrastructure of BRTC consists of 14 units of Buildings which includes, Administrative Block, Exhibition Center, Four Academic Blocks (East, West, North, and South), Boys and Girls Hostels, Canteen, Staff Residential Quarters, Inside Roads, Over Head Tank and Protection Wall. All the building works are at near to completion.



Construction Details of BRTC Infrastructure

Sr.No.	Name of Work	Estimated Cost (Lakhs)	Funds Received (Lakhs)	Funds Utilized (Lakhs)	Status
1	Construction of Protection Wall	232.13	232.13	710.12**	Completed
2	Construction of Internal Roads	243.00	243.00		Completed
3	Construction of Type-I & Type-II quarters	146.00	146.00		Completed
4	Construction of Type-III	104.00	104.00		Completed
5	Construction of Type-IV & Type –VI quarters	125.00	125.00		Completed
6	Construction of Exhibition Center (Workshop Building)	194.22	194.22	185.33	Completed, Fire Coating is balance
7	Construction of Administrative Building	750.52	750.52	3483.21**	Completed, Fire Coating is balance
8	Construction of Academic Block (East)	776.65	670.43		Work in Progress
9	Construction of Academic Block (West)	823.23	683.02		Work in Progress
10	Construction of Academic Block (North)	782.38	489.17		Work in Progress
11	Construction of Academic Block (South)	802.09	637.56		Work in Progress
12	Construction of Canteen	372.57	227.17		Work in Progress
13	Construction of Girl's Hostel (G+2)	538.87	479.97		Work in Progress
14	Construction of Boy's Hostel (G+2)	538.87	479.97	1075.05**	Work in Progress
15	Construction of Entrance Gate	1059.90	1059.90		Work in Progress
16	Construction of Over Head & Under Ground Tank, Garden	432.42	134.23		Work in Progress
17	Landscaping	534.00	534.00	46.82	Work in Progress
18	External Electrification	442.51	442.52		Work in Progress
19	Purchase of Furniture	240.00	72.00	46.82	Work in Progress
Total		9138.37	7704.81	5500.53	

** Expenditure Figures up to 30/04/2020.



Sanctioned Posts for BRTC

Sr.No.	Designation	No.of Sanctioned Posts	No.of Filled Posts	No.of Vacant Posts	Remarks
1	Director, IFS	1	1	0	
2	A.C.F. (Technical)	1	0	1	Post Transferred as per Revenue & Forest Deptt. GR.No.MFS/2018/ C.No.96/F-8 dt.11.10.2018.
3	R.F.O. (Technical)	1	1	0	
4	Supervisor	1	0	1	
5	Handicraft Supervisor	2	0	2	
6	Forester	1	1	0	
7	Machine Supervisor	2	0	2	Declared Dead Posts as per Revenue & Forest GR.No MFS/ 2017 Sr.No.677/F8 Dt. 13/09/2019
8	Accountant	1	1	0	
9	Clerk	1	1	0	
10	Forest Guard	1	1	0	
11	Driver	1	1	0	
12	Astt. Machine Supervisor	2	0	2	Declared Dead Posts as per Revenue & Forest GR.No MFS/ 2017 Sr.No.677/F8 Dt. 13/09/2019

Sr.No.	Designation	No.of Sanctioned Posts	No.of Filled Posts	No.of Vacant Post	Remarks
13	Dekhbal Sewak	10	4	6	Declared Dead 6 Posts as per Revenue & Forest GR.No MFS/ 2017 Sr.No.677/F8 Dt. 13/09/2019
14	Total Post	25	11	14	09-Filled 04-Vacant 10-Dead Posts

Note:- Estate Manager, Care Taker Posts are to be filled from Retired Forest officers on Contractual Basis.

Functions of BRTC

1. To give Bamboo Value Addition Training to unemployed Women and Men.
2. To help Self Help Groups Women to make Bamboo Articles for Self Employment.
3. To Create Bamboo Engineers through "Diploma in Bamboo Technology" two years course affiliated with Maharashtra State Board of Technical Education (MSBTE) for the youth.
4. To train Bamboo Artisans for making Bamboo Handicrafts with Latest Technology with Artistic Value.
5. To Establish Common Facility Centre for trained women and men for their self-employment opportunities.
6. To guide Farmers to promote Bamboo Cultivation in their lands as support to their needs.
7. To promote research on Bamboo by establishing "Bamboo Setum".
8. To Establish Bamboo Art Centers' in various universities to promote Bamboo research for Value Addition.
9. To make Forward and Backward Linkages to the products made by Bamboo Artisans.

Training

Maharashtra State Government had decided to establish an autonomous institute " Bamboo Research & Training Centre, Chichpalli", to enhance the skills in the Bamboo Artisans, on priority basis and to promote Bamboo sector Development through Maharashtra Forest Department.

Initially BRTC had provided skill enhancement training to the 15 interested persons at Bamboo and Cane Development Institute (BCDI), Agartala, Tripura for 45 days in March 2015. In training they were trained in Bamboo Basketry, Bamboo Furniture and Bamboo Turning Trades. In this training they learn about Bamboo Species, Bamboo Seasoning and Treatment and to make various bamboo articles like Bamboo Sofa Sets, Dust Bins, Baskets, Flower Vases, Trays, Chairs etc.,

After Successful Training of First Batch at BCDI, BRTC again sent a batch of 20 candidates for the same training for 45 days. Another batch of 12 candidates completed training at BCDI through BRTC in 2016. Total 47 candidates was trained at BCDI, Agartala. The Trained candidates from BCDI have started to give training to local Bamboo Artisans at BRTC, Chandrapur itself. BRTC started to give 45 days and 70 days Bamboo Skill Development Training Program for the desired candidates for their self-employment in the Bamboo Sector.



Selection Procedure for Training (70 days)

Firstly BRTC gives Advertisement in Local News Paper about training program for demanding applications from desired candidates and thereafter Interview will be conducted for selection procedure of Training Program.

Criteria

- ▶ Basic experience & Knowledge in Bamboo Handicraft.
- ▶ Priority will be given to Burad Community people.
- ▶ Age 18-38 years.
- ▶ Education Qualification 10th pass and above.

Facility

- ▶ Free Boarding & Lodging
- ▶ Stipend Rs.100 per Day

Sanctioned Posts for BRTC

Sr.No.	Course	Training Period	Trainees		
			Female	Male	Total
1	Furniture	70 Days	43	185	228
2	Basketry	70 Days	161	46	207
3	Turning	70 Days	7	72	79
4	Handicraft	70 Days	1006	39	1045
	Total		1217	342	1559

DIPLOMA in Bamboo Technology

BRTC has started 2 years "Diploma in Bamboo Technology" course in September 2017 affiliation with Maharashtra State Board of Technical Education (MSBTE) in order to meet the Bamboo Industry needs in turns of Man power. Intake Capacity 20 and Course Fee: Rs.12,000/-

Criteria

- ▶ Minimum 10th Pass.
- ▶ Should Qualify in Skill Test and in Interview conducted by BRTC.
- ▶ Selection is based on SSC Marks and BRTC Tests in 60:40 ratios.

Batch	Academic Year	Intake Capacity	Enrolled Students	Remark
First	2017-2019	20	14	Completed & 100% Placed
Second	2018-2020	20	11	On Going
Third	2019-2021	20	09	On Going



Given Exposure to New Cutting Edge Technologies in the field of Bamboo through various visits to Industries and Institutions like IPRITI, IWST Bengaluru, IIT – Mumbai, Wadali Bamboo Nursery Amaravati MS, Sampoorana Bamboo Kendra Lavada, BCDI Agartala, NID Bengaluru, GROWMORE BIOTECH LTD Hosur, and various Bamboo dependent Industries in across India.

BAMBOO HANDICRAFT AND ART UNIT (B.H.A.U.)

BRTC setup Common Facility Center in order to provide training as well as self-employment opportunities to local Bamboo dependent communities. B.H.A.U. units are well equipped with latest Bamboo Machinery to enhance the skill set of the Bamboo Artisans as well as to increase productivity and quality of products. Nearly 1500 people got benefited through the following 6 CFCs.

Sr.No	Place of CFC	Started
01	Chandrapur	8 th April 2018
02	Visapur	14 th September 2018
03	Pombhurna	29 th February 2019

Sr.No	Place of CFC	Started
04	Chichpalli	25 th March 2019
05	Mul	26 th July 2019
06	Chimur	14 th September 2019



Chandrapur



Visapur



Pombhurna



Chichpalli



Mul



Chimur

BAMBOO HANDICRAFT AND ART UNIT (B.H.A.U.)

In order to provide marketing facility to the Bamboo products, BRTC established retail shop at Chandrapur and also supplying goods to Nagpur Bamboo Shop. For online marketing we had tie-up with Flipkart.



Bamboo Art Centers in Universities

BRTC established "Bamboo Art Centers" at "Savitri Bai Phule Vidyapeeth Pune", "Mahatma Phule Krishi Vidyapeeth Rahuri", and "Sant Gadgebaba Vidyapeeth Amaravati" with joint collaboration of respective universities under the guidance of "Maharashtra Bamboo Development Board" on 5th October 2018. To initiate research and development in the field of bamboo at Universities.



POMBHURNA CLUSTER

Toothpick Project, Pombhurna

It was inaugurated on 21st December 2018. This unit provides employment to 14 locals.



CHANDRAPUR AGARBATTI PROJECT (CAP), Pombhurna

It was inaugurated on 21st February 2019, with Buy Back Guarantee with ITC-Mangaldeep

Phase - 1

- ▶ Production Capacity 20 Metric Tons
- ▶ Employment Opportunities to 60 Women
- ▶ Consists of 3 units
- ▶ Raw batti making unit
- ▶ Scenting Unit
- ▶ Packaging Unit
- ▶ First ten consignments costing of Rs.5,63,000/- each was delivered to ITC.



Phase – 2

- ▶ Production Capacity 80 Metric Tons.
- ▶ Employment Opportunities to 250 Women.
- ▶ Construction of sheds is in progress.



Phase – 3

- ▶ Proposal for Bamboo Agarbatti Stick making Unit



Bamboo Setum at Chichpalli

Started on 25th July 2018.



Objective

- ▶ As a pilot research project to Farmers as well as students.
- ▶ To study the growth of different bamboo species
- ▶ To enhance bamboo production in the private and government land.
- ▶ To Supply Bamboo Saplings to the farmers increase the Bamboo Cover.

Features

- ▶ Location – Chichpalli, Chandrapur (Dt.)
- ▶ Area – 2 ha.
- ▶ Demonstration plots of 80 different Bamboo species
- ▶ Bamboo Hi-tech Nursery
- ▶ Funding – Chanda to Banda Scheme

CHANDRAPUR AGARBATTI PROJECT (CAP), Pombhurna

In order to encourage farmers as well as Women Self Help Groups (SHGs) for Bamboo Plantation in their private lands and thereby increase Bamboo Cover. This also increases economic growth as well. Target is 7.5 Lakh Bamboo Saplings plantation. BRTC supplied 5,47,000 tissue culture bamboo saplings to the beneficiaries during in the 2019 NE Monsoon season. Remaining will be supplied in the year 2020 NE Monsoon.



Bamboo Particle Board

BRTC has setup "Bamboo Particle Board unit" at Chichpalli as an incubation center. Bamboo particle board is made up of with Bamboo waste particles. These boards are used as Tiles, Partition Walls, in furniture etc.



Bamboo Treatment Plant

BRTC has setup Bamboo Treatment plant at Chichpalli in order to meet industry requirements of treated bamboo raw material. In this plant BRTC has One Vacuum Pressure Impregnation plant and One Carbonization unit.



EXHIBITION

BRTC has participated in nearly 30 exhibitions at various International, National, State and Local events to promote and sale Bamboo Products.

FUTURE PLANS

- ▶ Tissue Culture Lab
- ▶ Bamboo Depot at Ballarpur
- ▶ Bamboo window Blinds at Pombhurna
- ▶ Bamboo Stocking Shed at Chichpalli
- ▶ Bamboo Pyrolysis Unit at Chichpalli
- ▶ Bamboo Charcoal Unit

AWARDS

GOLD SKOCH AWARD-2019 in employment generation category through Bamboo Handicraft & Art Units

GRIHA **“Exemplary Performance Award”** under Sustainable Building Materials/Technologies category, 11th GRIHA Summit 2019 on 18th Dec 2019 @ New Delhi



M



MANGROVE

M) Mangrove

Constitution of Mangrove cell

Mangrove Cell was constituted by the Government of Maharashtra in the wake of serious public concerns about mangrove loss in the State, particularly in Mumbai and surrounding areas. The establishment of the Mangrove Cell in 2012 initiated a series of measures for conservation of mangroves in Maharashtra. The Cell is headed by the Additional Principal Chief Conservator of Forests (APCCF). A Deputy Conservator of Forests (DCF) has been appointed to boost mangrove protection efforts. This Cell is also responsible for the conservation of coastal biodiversity in the State.

In 2013, the State government ramped up conservation efforts and elevated the status of mangrove forests on government land from 'Protected Forests' to 'Reserved Forests'. The Cell also facilitated the establishment of Mumbai Mangrove Conservation Unit in 2014.

There was an urgent need to scale up the mangrove conservation activities and to further promote research, education, ecotourism etc. to secure the biodiversity of our coastal and marine environment and to bring tangible benefits to the coastal communities. For this mission, creating an institution with the necessary skill set and the operational flexibility to address this complex task was under the consideration of the government which led to the establishment of a "Mangrove and Marine Biodiversity Conservation Foundation of Maharashtra" (Mangrove Foundation, in short). The Foundation was registered in the year 2015 under the Societies Registration Act, 1860

Functions of Mangrove Cell

Mangrove cell undertook the programme of mangrove conservation by taking block by block approach from raising mangroves in nurseries and organizing regular large-scale plantations in degraded mangrove areas to

conducting Clean Mangrove Campaigns and awareness programmes.

The Cell also forged strong partnerships with many leading national institutions and agencies, facilitating the introduction of state-of-the-art technologies and best practices (with respect to sustainable livelihood activities and research) to the Maharashtra shores. National Institute of Oceanography (NIO), Central Marine Fisheries Research Institute (CMFRI), Central Institute of Fisheries Technology (CIFT), Central Institute of Brackish Water Aquaculture (CIBA), Marine Products Export Development Authority (MPEDA), Wildlife Institute of India (WII), Salim Ali Centre for Ornithology (SACON) and Bombay Natural History Society (BNHS) are just a few names in the long and illustrious list of partners. Mangrove Cell also works with several NGOs, Citizen's Groups, educational institutions and private research organizations.

Based on the 'International Climate Initiative' Agreement between Government of India and the Federal Republic of Germany, a bilateral project towards improving conservation of marine biodiversity called "Sustainable Management of Coastal and Marine Protected Areas" (SMCMPA) was launched in Maharashtra with the help of the German development agency called GIZ. The project led to the notification of the Thane Creek Flamingo Sanctuary in 2015. Spread over an area of about 17 square kilometres with 896 Ha of Mangrove cover, it is home to over 200 species of birds, many of which are migratory like the splendidly-coloured flamingos which arrive in thousands in October-November. A 'Coastal and Marine Biodiversity Centre' was set up at Airoli, Navi Mumbai, in 2017 as a part of the GIZ Project and it is an interpretation and orientation centre for mangrove and marine biodiversity which serves as a gateway to the Sanctuary for tourists and environmentalists.



Mangrove Statistic

- ▶ Mangrove Cover in the State (FSI-2019) 320 sq.km.
- ▶ Mangroves on Government Land ~ 17,000 ha
- ▶ Mangroves on Private Land- ~ 13,000 ha

Activities of Mangrove Cell - Maharashtra Forest Department

1. Mangrove Protection
2. Mangrove Conservation and Livelihood Generation Scheme
3. Mangrove Afforestation
4. Clean-up Campaign
5. Awareness generation

1. Mangrove Protection

Mangrove forests on Government land are declared as 'Reserve Forest' as per the Indian Forest Act, 1927. Mangroves on private land are declared as 'Forest' hence provision of Forest Conservation Act 1980 is invoked for the diversion of these forests. In Maharashtra, a total of 15,088 hectares of land is declared as Reserve forest.

- ▶ A specialized unit, called Mumbai Mangrove Conservation Unit (MMCU), has been formed to curb the increased pressure of development, waste dumping, pollution and encroachment in mangrove areas of the Mumbai Metropolitan Region.
- ▶ Patrolling is intensified in all mangrove areas. Thousands of illegal shanties, which had cropped up on mangrove lands in various parts of Mumbai, have been given notices for evacuation and many of them have been removed.
- ▶ In an effort to closely monitor the status of mangroves in Maharashtra, satellite mapping of mangrove areas has been carried out, district by district, on a 1:5000 scale and the areas in the possession of Forest Department have been demarcated on the ground with a clear boundary.
- ▶ Implementation of 'Mangrove Conservation and Livelihood Generation Scheme' for providing sustainable livelihoods associated with mangrove habitats in order to establish sustainable mangrove conservation by local communities and enabling them to receive tangible benefits from protecting this ecosystem. Presently a total of 120 villages are taking advantage of the scheme.
- ▶ Capacity Building of staff for effective conservation and protection measures

District	Area Notified u/s 4 of IFA	Area Finally notified as Reserved Forest u/s 20 of IFA	Area Transferred to Forest Department	Balance area to be transferred	Remarks
Mumbai	276.6500	0	276.6500	0	
Mumbai Suburban	3729.4265	0	3706.4172	23.0093	
Thane	2062.8266	0	2057.1639	5.6627	
Palghar	2908.2616	0	2874.0679	34.1937	
Raigad	4193.2913	0	2997.7038	1195.5875	Out of 1195.5875 ha. to be taken over, 818.5338 ha. is recommended for exclusion by the Forest Settlement Officer for various reasons.



District	Area Notified u/s 4 of IFA	Area Finally notified as Reserved Forest u/s 20 of IFA	Area Transferred to Forest Department	Balance area to be transferred	Remarks
Ratnagiri	1435.785	1432.7098	1432.7098	0	3.0752 ha. dropped from final notification because of other land uses such as crematorium and water supply.
Sindhudurg	487.3611	0	372.0195	115.3416	115.3416 ha. recommended for exclusion by Forest Settlement Officer
Total	15093.6021	1432.7098	13716.7321	1373.7948	

2. Mangrove Conservation and Livelihood Generation Scheme

- The Scheme was initiated on 20th September 2017 by Government of Maharashtra in the coastal districts of Maharashtra, to conserve mangroves on both private and government lands. The Scheme aims to provide benefits to individuals and community members of selected villages.
- Based on the current mangrove cover, about 120 villages from coastal districts such as Palghar, Thane, Raigad, Ratnagiri and Sindhudurg have been selected for the implementation of the scheme activities by the Mangrove Cell, Maharashtra Forest Dept. and the Mangrove Foundation.
- To ensure participation of the local communities, the Scheme is being implemented through village-based Mangrove Co-Management Committees

(MCMC). Through this Scheme a group activity is entitled to 90% of subsidy while an individual (land owners with more than 1 acre of mangroves) will get 75% subsidy.

- Through the scheme, the following activities are being implemented across various villages along the coastline of Maharashtra:

1. Crab Farming
2. Fish Cage Culture (Asian Sea Bass)
3. Oyster and Mussel Farming
4. Ornamental Fish Culture
5. Mangrove Ecotourism
6. Mangrove Seed Collection

3. Mangrove Afforestation Plantation

District	Ha.	Saplings
Mumbai Suburban	75ha.	333300
Thane	124 ha	355524
Palghar	216ha	959904
Raigad	333ha	1974036
Sindhudurg	43ha	191092
Total	791ha.	3813856

4. Clean-up Campaigns

- ▶ Annual Mangrove clean-up programmes are conducted to create awareness
- ▶ The Clean Mangrove Campaign, a three-year joint initiative started in 2015, by the citizens of Mumbai city and Mangrove Cell, made it to the Limca Book of Records. This was one of the biggest government-citizen partnership projects. In this campaign 8,000 tonnes of garbage (mostly plastic) was cleared, covering 11.03 sq.km of mangroves across Mumbai.

<https://indianexpress.com/article/cities/mumbai/mangrove-clean-up-drive-in-limca-book-of-records-5566405/>

5. Awareness Generation

- ▶ Development of 'Coastal and Marine Biodiversity Centre'(CMBC) at Airoli, Navi Mumbai
- ▶ Regular Environmental education and awareness talk for students and the public in general.
- ▶ Celebration of important Nature and Wildlife days to create awareness about the pressing subjects
- ▶ Sensitizing young minds about the coastal and marine biodiversity of Maharashtra, through school programmes, at 'Coastal and Marine Biodiversity Centre'(CMBC), Airoli, Navi Mumbai

Expenditure of year 2019-20

Total Budget provision for year 2019-20 was 34.93crores for Mangrove Protection & Creation of livelihood scheme (2406- A229). The grants received for year 2019-20 was of 24.16 crores of which 18.00crores was utilized under scheme and remaining amount was surrender. As it was not possible to utilized the total amount due to Covid -19 pandemic.

Head -2406-A229	2019-20 Amount spent
02- wages	5,18,90,000/-
21- material & Supply	2,38,31,235/-
50- Other Charges	10,43,40,000/-
Total	18,00,61,235/-



N



**ECOLOGICAL TASK FORCE
BATTALION FOR MARATHWADA**

N) Ecological Task Force Battalion For Marathwada

Late Prime Minister Smt. Indira Gandhi gave concurrence for raising of first ecological Battalion at Dehradun (Uttarakhand) in the Year 1982. The purpose of the same was for ecological restoration in the hills of Mussoorie. As a special provision the manpower for the Eco Battalion is to recruit Ex-Servicemen of the Indian Armed Force for their rehabilitation/ re employment. Subsequent to the raising of the first Eco Battalion, series of eco Battalions were raised at Samba (J&K), Mohangarh (Rajasthan), Pithoragarh (Uttarakhand), Bhatti Mines (New Delhi), Kufri (Himachal Pradesh), Kokrajhar & Tezpur (Assam). In the Senior Forest Officers Conference held at Aurangabad on 22-23 September 2016, Brigadier D.S. Chauhan, DDG (Eco) made presentation on Raising of Battalion for taking plantation in Marathwada Region of Maharashtra. In the Special Cabinet meeting held at Aurangabad on 04-10-2016, decision was taken to raise Eco-Battalion for carrying out plantation works in the Marathwada Region. Govt. of Maharashtra issued GR on 13.10.2016 to submit proposal for raising of Eco Battalion to Govt. of India. Govt.

of India, Ministry of Defence vide letter dated 28-07-2017 granted sanction to raise 136 Infantry Battalion (TA) Ecological MAHAR for State of Maharashtra for a period of five years. The Battalion will consist of one company with total strength of four officers, five Junior Commissioned Officers and 150 other ranks.

Role and Tasks of Eco-task Force Battalion is mainly to carry out plantation and to maintain plants for the duration of the project. Besides that to carry out soil conservation work, carry out water harvesting, carry out the task of pasture development, carry out the task of wasteland development, protect/conservate wildlife, to provide budgetary support for raising and maintenance of Eco Battalion, to provide land and infrastructure for housing the Battalion, to provide land for plantation, technical advice, supply of fencing material, seeds, seedlings, saplings, water for plantation activities and maintenance, manure, termite treatment, etc.

Plantation Works by Eco Battalion

Sr. No.	Year	Village	Comptt. / Sur. No.	Area ha.	Seedlings planted
1	2017	Abdimandi	197/14	65	23005
2	2018	Abdimandi	197/14	65	24530
3	2018	Shendra-ban	56	56	18756
		Total 2018		121	43286
4	2019	Abdimandi	197/14	23	22509
5	2019	Nirgudi	184	138	151000
6	2019	DMIC Shendra	56	73.35	75488
7	2019	Sultanabad	5,7	30	20292

Sr. No.	Year	Village	Comptt. / Sur. No.	Area ha.	Seedlings planted
8	2019	Arapur	1	10.37	30230
9	2019	Kolthan	212	3	14000
Total 2019				277.72	313519
10	2020	Dhamangaon	183/86	100.00	100000
11	2020	Vithalpur	145/71	66.00	65000
12	2020	Kolthan	212	65.00	65000
Total 2020				231.00	230000
Grand Total				694.72	379810

Fund received to Eco-battalion

Year	Funds received (Rs in Lakhs)
2017-18	1120
2018-19	1280
2019-20	480
Total	2880

Expenditure incurred on Eco-battalion

Year	Item	Expenditure (Rs in Lakhs).
2017-18	a) Plantation	115.6
	b) Establishment	750
	c) Accommodation	25.75
	d) Vehicles hiring charges, fuel etc.	4.85
	Total	896.2
2018-19	a) Plantation	310.38
	b) Establishment	453.94
	c) Accommodation	58.38
	d) Vehicles hiring charges, fuel etc.	64.66
	Total	887.97



Year	Item	Expenditure (Rs in Lakhs).
2019-20	a) Plantation	260.56
	b) Establishment	520.53
	c) Accommodation	37.16
	d) Vehicles hiring charges, fuel etc.	22.57
	Total	840.42
2020-21	a) Plantation	79.17
	b) Establishment	150.79
	c) Accommodation	0
	d) Vehicles hiring charges, fuel etc.	9.00
	Total	238.96
	Grand Total	2863.55

Requirement of two additional companies

Vide Govt. of Maharashtra Forest Department letter dated 18-01-2019 directions were received to submit proposal for two companies. In the GR dated 13-10-2016 Govt. has granted sanction for establishment of additional companies considering the works experience of existing Eco Battalion. Accordingly proposal of two additional companies to be established at Beed & Hingoli is submitted to Govt. vide PCCF letter dated 20-06-2019.

Funds required for additional Two Companies in Beed and Hingoli District

Sr. No.	Particulars	Funds Required
1	First Year	a) Initial Cost
		4.52 cr.
2	Second to Fifth Year	b) Recurring cost
		15.04 cr.
		c) Recurring cost
		60.16 cr
	Total Fund required	79.72 cr.



SUBJECT HEAD-WISE

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		Achievements under Tribal sub plan	54	108
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SUBJECT HEAD-WISE

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1	ACF	Assistant Conservator of Forests
2	A/C	Additional Charge
3	AWC	Afforestation Working Circle
4	Cu.M.	Cubic meter
5	CCF	Chief Conservator of Forests
6	CF(T&M)	Conservator of Forest (Transport & Marketing)
7	DFO	Divisional Forest Officer
8	Dy.CF	Deputy Conservator of Forest
9	E.G.S.	Employment Guarantee Scheme.
10	F.D.C.M.	Forest Development Corporation of Maharashtra Ltd.
11	FDWC	Fodder Development Working Circle
12	F.L.C.S.	Forest Labourers Co-operative Societies.
13	FD	Forest Department
14	Ha.	Hectare
15	IWC	Improvement Working Circle
16	ISRVP	Inter State River Valley Project
17	IT&P	Information Technology & Policy
18	JFMC	Joint Forests Management Committee
19	Km.	Kilometer
20	MFP	Minor Forest Produce
21	MTR	Melghat Tiger Reserve
22	OTFD	Other than Forest Dwellers
23	OTPL	Old Teak Plantation Working Circle
24	O T S P	Other Tribal Sub Plan
25	PTR	Pench Tiger Reserve
26	P & CAM	Protection And Catchment Management Working Circle
27	Qtl.	Quintal

Sr. No.	Subject Head	Particulars
28	RFO	Range Forest Officer
29	RVP	River Valley Project
30	SCIWC	Selection cum Improvement Working Circle
31	SFD	Social Forestry Department
32	SFS Coimbatore	State Forest Service College, Coimbatore
33	STR	Sahyadri Tiger Reserve
34	TPWC	Teak Plantation Working Circle
35	T S P	Tribal Sub Plan
36	W.C .	Working Circles
37	WP	Working Plan
38	WG	Western Ghat
39	Z.P.	Zilla Parishad



MAHARASHTRA FOREST DEPARTMENT

*Office of the Principal Chief Conservator of Forests,
(Head of Forest Force), Maharashtra State,
"Van Bhavan", Ramgiri Road, Civil Lines, Nagpur - 440 001*

Ph : 0712 - 2555671, 2556701 / Fax : 0712 - 2550675
Email : cfstat@mahaforest.gov.in, pccfitp@mahaforest.gov.in
Web : www.mahaforest.gov.in

Photo by : Raman Kulkarni