

PART - II

**FUTURE MANAGEMENT DISCUSSED AND
PRESCRIBED**

SECTION -1:- GENERAL OBJECTIVES MANAGEMENT. :- The National forest policy of 1988 will be the guiding principle to decide the general objects of management. The new policy has emphasized the need for environmental stability as the prime objective. Keeping in view the above factor and the other principles laid down in the National Forest Policy, the functions the forests have to perform as per State Government Orders, the object of scientific management, the rapid depletion of growing stock due to over harvesting, heavy grazing and illicit cutting. The general objects of management will be as under.

- (i) To preserve forest cover on steep hill slopes, along the nala banks and water courses and to prevent soil erosion and to preserve site and environment.
- (ii) To enrich the growing stock in other natural forests and to restock all the under stocked and degraded forests, to achieve normality of growing stock in shortest possible time.
- (iii) To meet the requirement of small timber, fuel wood, fodder and minor forest produce of the rural and tribal population on top priority.
- (iv) To increase the production of minor forest produce and to manage the same scientifically to utilize the potential to the maximum possible extend on sustained basis.
- (v) Consistent with the above objective to ensure maximum sustained yield.
- (vi) Artificial regeneration of the areas with appropriate plantation technology and after due consideration of edaphic and ecological factors.
- (vii) Arrest future degradation of the areas and promote existing vegetative Cover by proper soil conservation measures and enrichment planting.
- (viii) To conserve and maintain wildlife.
- (ix) The present scenario reveals that the biomass based power projects and pulp wood based industries are facing acute shortage of biomass and pulp wood. Maharashtra state is facing shortage of power to meet its industrial and domestic needs. Hence to meet the demand of biomass and pulp wood, it is necessary to raise dedicated energy plantations as well as pulp wood plantations on marginal and degraded land available with FDCM Ltd. Raising of these types of plantations would enhance the productivity of the forest land and also enhance the revenue of FDCM Ltd.

Hence, to address the forest cover cum energy and pulpwood deficit scenario in the state, it has been proposed to (i) raise dedicated energy plantations of Bamboosa balcooa & (ii) pulp wood plantations of Eucalyptus on marginal & degraded land of FDCM Ltd under Afforestation Working Circle.

SECTION - 2: METHOD OF TREATMENT TO BE ADOPTED

1.2.1 Area transferred to Pranhita forest Project Division consist of 104 compartments from Alapalli and Sironcha territorial Forest Division. Out of which Compartment No. 30 admeasuring 16.602 hectares has been transferred to Depot Division, Ballarshah being a Nagepalli Sale Depot. The area statement of 104 compartments is given in the **Appendix No. XXVI** of Volume-II. Total area covered under current management plan is 25450.786 ha. The permissible activities in these areas have been undertaken by F.D.C.M. Ltd.. since 1974 onwards.

1.2.2 The details of plantation carried out since 1975 by Forest Development Corporation of Maharashtra Ltd., under various schemes are given in the **Appendix No. VII** of Volume-II. The current Management plan addresses the total area planted in the past and balance un-tackled natural forest irrespective of compartments which are in different stages of degradation.

1.2.3 Area assessment has been carried out for each compartment and the area tackled in the past under various schemes, were evaluated on the basis of survival and growth parameters. Well established plantation having more than 50% survival as well as growth are treated as productive areas and various tending operation are prescribed with the objects to enhance the standing volume and productivity of the regenerated area. Area having survival percentage less than 50 and/ or where growth is stagnated because of certain edaphic, biotic factors are treated as failure and are proposed for reboisement with suitable species.

1.2.4 Balance area in each of the compartment is assessed in terms of composition, density and current status of degradation, Second storey composition is also assessed to work out the productivity of Bamboo and other economically important species. Established regeneration of second storey species are proposed for tending in such a manner that without removal of the over wood, productivity of second storey crop is enhanced in value and volume both.

1.2.5 Classification of the areas are carried out on the basis of the compartment history sheet, prepared by FDCM Ltd., for each of the compartment in a very elaborate manner. Revised stock maps have been prepared on toposheet of scale 4"-1 mile (Compartment wise). The extents of success of earlier plantations have been ocularly estimated. The extents of failure of plantations have been broadly analyzed with reference to habitat factors and human failure. These have been taken into consideration for the purpose of future management of tackled areas,

1.2.6 The balance un-tackled areas have also been assessed in terms of over wood density, soil depth, and drainage, degree of erosion, degradation stages and site suitability for raising various plantations.

1.2.7 Total area of this division (25450.786 ha.) has been allotted to the following working circles.

**WORKING CIRCLE WISE AREA ALLOTTED AS PER THE
PRESENT MANAGEMENT PLAN - 2015-16 TO 2024-25**

S.N.	Working Circle	Total Area	Percentage of Total Area
1	Teak Plantation Management Working Circle	11750.216	46.17
2	Teak Plantation Working Circle	3083.366	12.12
3	Improvement Working Circle	6293.755	24.73
4	Afforestation Working Circle	2085.488	8.19
5	Protection Working Circle	733.101	2.88
6	Encroachment Management Working Circle	1338.029	5.25
7	Miscellaneous Working Circle	166.831	0.66
	Total	25450.786	100
8	Bamboo (Overlapping) Working Circle	742.652	2.92
9	Wildlife Management (Overlapping) Working Circle	25450.786	100
10	Non-wood Forest Produce (overlapping) Working Circle	25450.786	100
11	Soil and Water Management (overlapping) Working Circle	25450.786	100

**WORKING CIRCLE WISE AREA ALLOTTED AS PER THE
PAST MANAGEMENT PLAN - 2005-06 TO 2014-15**

S.N	Name of the Working circle	Area (in ha)	Percentage of Total Area
1	Teak Plantation Management Working Circle	11141.161	44.59
2	Teak Plantation & Reboisement Working Circle	2733.012	10.94
3	Improvement Working Circle	7051.776	28.22
4	Afforestation Working Circle	1840.608	7.37
5	Protection Working Circle	1884.511	7.54
6	Mescellaneous Working Circle	336.482	1.34
	Total	24987.550	100
7	Bamboo Production (over lapping) Working Circle	1167.852	4.67
8	Wild Life Management (over lapping) Working Circle	24987.550	100

Statement showing the Comparison of area allotted to different working circles for past management plan and present management plan.

S. N.	Working Circle	Area for Past M.P. 2005-06 to 2014-15	Area for Present M.P. 2015-16 to 2024-25	Reasons for difference in Area
1	Teak Plantation Management Working Circle	11141.161	11750.216	Area increased in present Management Plan due to allotment of the area of successful Teak plantations raised between 2005 to 2014 for the further silvicultural operations.
2	Teak Plantation Working Circle	2733.012	3083.366	Natural forest area taken over from Forest Department has been allotted to this working circle, to give the treatment of silvicultural system of conversion to uniform system with supplemental artificial regeneration of genetically superior stock so increased the area.
3	Improvement Working Circle	7051.776	6293.755	Area allotted to Past Management Plan of this working circle, allotted to Teak plantation management working circle, Teak plantation working circle & Afforestation working circle, for the silvicultural operations and also the area transferred to forest department for pranhita wildlife, so decreased the area.
4	Afforestation Working Circle	1840.608	2085.488	Area from Improvement working circle of past management plan has allotted to Afforestation working circle in present management plan, so increased the area of Afforestation working circle as per the stock mapping carried out.
5	Protection Working Circle	1884.511	733.101	As per the suggestions of members of committee constituted for the approval of management plan Area of this working circle allotted to Encroachment management working circle in present plan, so decreased the area.
6	Encroachment Management Working Circle	0.000	1338.029	In past management plan no working circle was prescribed as per the suggestions of members of committee constituted for the approval of management plan, this working circle is introduced in present management plan.
7	Miscellaneous Working Circle	336.482	166.831	Area of this working circle allotted to Teak plantation management working circle, Protection working circle, Afforestation working circle, Improvement working circle, Encroachment working circle, for carrying out the silvicultural operations. Some area transferred to Nagepalli sale depot, so decreased in the area. Details of area- 1. TPMWC 38.000 ha. 2. Protection W.C. 21.000 ha. 3. Encroachment W.C. 49.000 ha. 4. Afforestation W.C. 30.000 ha. 5. Improvement W.C. 16.039 ha. 6. Transferred to Nagepalli Depot 16.009 ha.
	Total	24987.550	25450.786	Increased in area of present management plan due to area taken over from Forest Department.
8	Bamboo (Overlapping) Working Circle	1167.852	742.652	Area of partially failure bamboo plantations as well as naturally regenerated bamboo area which is not capable for giving marketable bamboo production is excluded from this present management plan, hence decreased the area.
9	Wildlife Management (Overlapping) Working Circle	24987.550	25450.786	Entire area of this division is included in this working circle of past and present management plan.
10	Non-wood Forest Produce (overlapping) W. C.	0.000	25450.786	Entire area of this division is included in this working circle of past and present management plan.
11	Soil and Water Management (overlapping) W. C.	0.000	25450.786	Entire area of this division is included in this working circle of past and present management plan.

1. SECTION – 3:- Constitutions of Working Circle

1.3.1 Total area of the Pranhita Forest Project Division, Alapalli is divided into six ranges. The working circle wise distribution of area in different Ranges is given in the table below.

S. N.	Name of Working Circle	Alapalli	Aheri	Jimalgatta	Dechali	Asarali	Kopela	Total
1	Teak Plantation Management W.C.	2501.722	2445.157	1496.371	1569.435	1460.998	2276.533	11750.216
2	Teak Plantation W. C.	757.314	915.607	897.364	487.081	26.000	0.000	3083.366
3	Improvement W.C.	1001.313	1040.565	563.998	1296.978	1745.822	645.079	6293.755
4	Afforestation W. C.	397.906	729.370	0.000	296.750	331.073	330.389	2085.488
5	Protection W. C.	223.867	117.819	159.014	87.232	122.086	23.083	733.101
5	Encroachment Management W. C.	0.000	0.000	627.175	710.854	0.000	0.000	1338.029
6	Miscellaneous W. C.	23.387	57.509	20.898	45.620	8.736	10.681	166.831
	Total	4905.509	5306.027	3764.820	4493.950	3694.715	3285.765	25450.786
7	Bamboo (Overlapping) Working Circle	0.000	0.000	94.770	467.882	0.000	180.000	742.652
8	Wildlife Management (Overlapping) W. C.	4905.509	5306.027	3764.820	4493.950	3694.715	3285.765	25450.786
9	Non-wood Forest Produce (overlapping) W. C.	4905.509	5306.027	3764.820	4493.950	3694.715	3285.765	25450.786
10	Soil and Water Management (overlapping) Working Circle	4905.509	5306.027	3764.820	4493.950	3694.715	3285.765	25450.786

SECTION - 4:- BLOCKS AND COMPARTMENTS

1.4.1 Area of the Management Plan includes 104 compartments admeasuring 25450.786 ha in extent, divided into 6 Ranges of the Division. The details of compartment wise areas allotted to various working circles are given in **Appendix No. V** of Volume-II.

SECTION -5 :- RANGES.

1.5.1 Total area of Pranhita Forest Project Division (25450.786 ha) is divided into six Ranges. Annual target, various activities such as plantation under different working circles, maintenance & tending of on going plantation, thinning of established plantations and general protections works are taken into considerations while constituting Ranges so that works are uniformly spread out. Compartment is taken as a unit and sequence of plantation activities is arranged in such a manner that the gross area of compartment is fully treated within plan period. The compartments allotted to the Ranges are as follow:-

S.N.	Range	No. of Compartments	Area (in ha.)
1	Alapalli	17	4905.509
2	Aheri	22	5306.027
3	Jimalgatta	15	3764.820
4	Dechali	15	4493.950
5	Asarali	16	3694.715
6	Kopela	19	3285.765
	Total	104	25450.786

SECTION -6:- ANALYSIS OF THE CROP

1.6.1 The Stock maps of all 104 compartments are prepared and the results are given in the **Appendix No.VI** of Volume-II. These stock maps are prepared on 4"= 1 mile scale using conventional signs.

SECTION -7:- PERIOD OF MANAGEMENT PLAN

1.7.1 Period of this management plan will be for ten years from 2015-16 to 2024-25

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