

CHAPTER - X

AFFORESTATION WORKING CIRCLE

10.1 General Constitution of this Working Circle

The open forest areas having density less than 0.4 with sparse vegetation and inadequate natural regeneration and shrubby growth have been included in this Working Circle.

Afforestation Working Circle (AFF) forms about 13% of the entire forest area of the division. It includes 21070.55 ha of the forest area comprising both the Reserved Forests to the extent of 4174.39 ha and Protected Forests to the extent of 16896.16 ha (**Table 10.1**).

The following criterion has been applied for allocation of compartments to the AFF Working Circle:

- Compartments having large proportion of area under forest blanks.
- Compartments having poor quality open forests, which need to be afforested.
- Average Basal area of the crop in the compartments allotted to this working circle is less than 3 Sq.mt. per ha.

Table 10.1 **Compartments allocation to Afforestation Working Circle**

AFF.W.C.							
Sr.No.	Range	RF		PF		Total Comptt.	Total Area
		No.of. Comptt	Area in ha.	No.of. Comptt.	Area in ha.		
1	Narkhed	6	991.47	29	3204.7	35	4196.17
2	Katol	2	490.89	19	2905.29	21	3396.18
3	Kondhali	2	162.78	23	2621.17	25	2783.95
4	Hingna	2	128.33	3	391.64	5	519.97
5	Buttibori	4	469.3	6	950.47	10	1419.77
6	Seminary H.	0	0	0	0	0	0
7	Kalmeshwar	0	0	0	0	0	0
8	Khapa	0	0	7	443.52	7	443.52
9	Paoni	2	119.14	7	783.5	9	902.64
10	Deolapar	4	114.27	10	665.16	14	779.43
11	Parshioni	1	33.03	3	282.26	4	315.29
12	Ramtek	2	180.48	16	2385.69	18	2566.17
13	N.Umred	3	619.18	18	1614.06	21	2233.24
14	S.umred	4	865.52	7	648.7	11	1514.22
Grand Total		32	4174.39	148	16896.16	180	21070.55

10.2 General Character Of The Vegetation

This working circle generally comprises of degraded open forest areas interspersed with forest blanks or brushwood. The blank areas have dominance of shrubby growth and inferior grasses. The common grasses include Ghonad, Kusal, Bhurbhusi, Marvel and Sheda. While Ghot, Khair, Eruni, Bharati, Ber, etc. are the common thorny or brushwood species. Tarota, gokhru and bantulsi are the common weeds. In such area Lantana has spread over many places.

The allotted areas in general are under stocked and open with crop density usually less than 0.4, though patches of better stocked areas are also met with in some compartments. The most of the PF areas allotted to this WC, especially, those near the villages are highly degraded and lays bare without any significant tree crop.

The crop consists mainly of scattered trees or patches of open forests. The principal species is Teak and its common associates are Saja, Dhaora, Bhirra, Rohan, Tendu, Lendia, Salai, Mowai, Char, garari, kalam, khair and Palas, etc. Anjan, Jamun and Ficus are found along streams (Table 10.2).

Table 10.2 Species and girth distribution in the AFF Working Circle areas per ha.

Species	AFF Working Circle											
	Girth Class wise Trees/ha.											Basal Area
	15-30	31-45	46-60	61-75	76-90	91-105	106-120	121-135	136-150	151 up	Total	
Ain	3.04	1.54	1.17	0.85	0.54	0.56	0.15	0.10	0.01	0.05	8.00	0.20
Aonla	0.47	0.08	0.07	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.69	0.01
Behada	0.33	0.26	0.22	0.09	0.04	0.11	0.03	0.04	0.06	0.03	1.24	0.05
Bel	0.21	0.19	0.18	0.15	0.06	0.01	0.00	0.01	0.00	0.02	0.82	0.02
Bhirra	7.93	3.39	1.61	0.80	0.41	0.23	0.09	0.01	0.02	0.00	14.49	0.19
Biba	1.15	0.20	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.01
Bija	0.20	0.02	0.08	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.33	0.00
Bor/Ber	0.10	0.08	0.07	0.04	0.07	0.00	0.02	0.00	0.00	0.00	0.38	0.01
Char	1.44	0.81	0.48	0.22	0.13	0.04	0.05	0.02	0.00	0.00	3.19	0.05
Chichawa	0.18	0.02	0.24	0.26	0.26	0.12	0.03	0.03	0.00	0.04	1.18	0.05
Dhaman	0.02	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Garadi	2.22	1.16	0.44	0.08	0.03	0.04	0.00	0.00	0.00	0.00	3.97	0.04
Haldu	0.03	0.02	0.04	0.03	0.05	0.03	0.00	0.00	0.02	0.02	0.22	0.01
Hirda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kalam	0.13	0.07	0.06	0.08	0.05	0.02	0.03	0.03	0.05	0.04	0.55	0.03
Kasai	0.00	0.08	0.05	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.15	0.00
Khair	4.10	2.88	0.97	0.32	0.21	0.04	0.00	0.00	0.00	0.00	8.52	0.10
Lendia	6.81	3.20	0.98	0.26	0.23	0.05	0.02	0.00	0.00	0.00	11.55	0.12
Moha	1.15	0.33	0.32	0.23	0.18	0.10	0.13	0.07	0.07	0.22	2.80	0.12
Mokha	0.06	0.02	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.12	0.00

Mowai	1.30	0.76	0.80	0.84	0.57	0.34	0.35	0.15	0.05	0.03	5.18	0.19
Palas	6.53	4.95	2.70	1.09	0.52	0.13	0.04	0.00	0.00	0.00	15.97	0.23
Rohan	0.83	0.52	0.31	0.14	0.12	0.10	0.09	0.03	0.03	0.01	2.18	0.06
Salai	0.36	0.21	0.19	0.27	0.30	0.23	0.25	0.22	0.09	0.01	2.12	0.12
Semal	0.00	0.00	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.02	0.06	0.01
Shisham	0.02	0.03	0.08	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
Shiwan	0.02	0.02	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.06	0.00
Teak	10.45	8.60	5.96	3.52	2.57	1.17	0.83	0.37	0.23	0.09	33.78	0.82
Tendu	8.31	3.00	1.09	0.52	0.22	0.09	0.03	0.01	0.00	0.00	13.27	0.14
Tiwas	0.03	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
Other	0.20	0.06	0.06	0.06	0.06	0.02	0.00	0.00	0.00	0.02	0.48	0.01
Total	57.61	32.66	18.33	9.97	6.69	3.49	2.16	1.08	0.62	0.58	133.18	2.60

The site quality varies between IVb and IVa. The canopy density of the vegetation varies from 0.0 to 0.4. Natural regeneration of common species is present but its extent is far from being adequate (Table 10.3). Heavy grazing pressure has resulted in compaction of the soil with little sub-soil moisture. Young recruits of species like Ain, Dhaoda, Bhirra and Teak, etc. are found in many compartments. Due to excessive grazing, fires and refractory nature of areas, establishment of Natural Regeneration is inadequate.

Table 10.3: Natural Regeneration per Ha. recorded in the Afforestation Working Circle

AFF W.C.				
Range	(R1)	(R2)	(R3)	Total
	Up to 1 meter	1.0-3.0 meter	> 3 meter	
Narkhed	175.63	30.47	10.06	216.16
Katol	53.49	32.07	29.38	114.94
Kondhali	23.02	3.46	4.49	30.97
Hingna	3.16	2.25	2.14	7.55
Buttibori	28.90	9.48	2.17	40.55
Khapa	5.90	0.00	0.38	6.29
Paoni	95.95	7.06	0.00	103.01
Deolapar	174.95	84.33	12.92	272.20
Parshioni	162.38	36.69	3.16	202.24
Ramtek	156.44	76.20	7.59	240.23
N.Umred	98.11	28.58	2.50	129.19
S.Umred	17.71	9.30	2.31	29.32
Grand Total	995.64	319.88	77.11	1392.63
Average	71.12	22.85	5.51	99.47

10.3 Block and Compartments

10.3.1 Details of the compartments in the working circle have been given in Appendix XXXII:

10.4 Special objects of Management

The special objectives of management of this working circle are as follows:

- To restore the vegetative cover and of degraded and open areas and increase their productivity by site protection and tending of natural regeneration and rootstock, supplementing it with plantations, wherever, necessary.
- To check the loss of top soil by adopting suitable soil and moisture conservation measures and to increase the water absorption capacity of the soil.
- To actively involve Gram Panchayats and other village institutions like JFM committees in re-vegetating degraded areas.
- To improve the quantity and quality of fodder by planting fodder tree species and introducing superior and high yielding fodder grasses and legumes.

10.5 Analysis and Valuation of the Crop

Stock mapping: The stock maps were prepared by territorial staff and were correlated with the enumeration results of SOFR Unit and Satellite imagery classified data obtained from Forest Survey of India, Nagpur.

Age and density: The crop of forest areas under this working circle is mostly young to middle aged with occasional mature trees having density below 0.4 which were reflected by stock mapping and satellite imageries.

Enumeration: Most of the areas under this Working Circle fall in PF, which are mainly barren with little growth. Teak constitutes over more than 15% of the total stock in the forest. The enumeration of the growing stock has been carried out by the SOFR Unit, Amaravati and intensity of sampling was nearly 1%. The plots of size 60m x 60m were laid at a distance of 600m x 600m. Analysis of the data collected from these sample plots is given in table 10.2.

10.6 Silvicultural System

10.6.1 The area will be regenerated with suitable tree species depending on the site conditions. Tending of existing rootstock viz. the saplings, coppice shoots and poles, supplemented by plantations have been proposed as the main activities in this working circle. Yield removal are not prescribed except for removal of wind fallen, dead and extremely malformed trees.

10.6.2 In view of vicinity of these areas to habitations, fuel wood and fodder availability will be expanded through plantation of fuel wood and fodder species and by involving JFM committees.

10.6.3 The areas of this working circle are, primarily, in bad shape. Inadequate sub-soil moisture, highly compact soil structure and heavy biotic pressure are the main limiting factors for the establishment of seedling in this area. Top soil has been washed away and as a result vast areas do not have even adequate soil-depth to support tree crop. As a consequence, a large chunk of these areas lay bare without any significant vegetation. Hence, intensive soil and moisture conservation measures and tending of existing rootstock should go hand in hand with the efforts of artificial regeneration.

10.7 Choice Of Species

10.7.1 Order of priority among desirable species for retention is prescribed as: Teak, Tiwas, Saja, Bija, Karam, Haldu, Shisham Dhaora, , Khair, Siwan, Rohan, Salai, Mowai, Dhaman, Lendia, Semal, Kulu Bhirra,, etc.

10.7.2 Valuable local species suitable for the site and favoured by the local village communities will be preferred in plantations. Teak, Shisham, Khair, Siwan, Sisoo, Siris, Chichwa, Karanj, Ain, Bija, Dhaora, Aonla, Chinch, Neem, Maharukh, semal, Sitaphal, bamboo etc. should be considered among the recommended species. In poorly drained areas and swampy area Arjun, Babul, Jamun and Ain shall be preferred. Seedlings of edible fruit-yielding forest species may constitute up to 20 percent and seedlings of medicinal plants up to 5 percent each. The extent of plantation should not be exceed 50 ha.. An officer not below the rank of Assistant Conservator of Forests should approve the site selection. The broad information of the different species growing in different types of soil conditions is given in **Appendix XL** as different species show their preference for edaphic factors. 10.7.3 Mixed species plantations will include fairly good proportion of fodder and firewood yielding species, like, Anjan, Neem, Sissoo, Ficus, babul, Gular, Pakar, Maharukh, Kinhi, Siwan, Karanj, Siras, Sitaphal, etc.

10.8 Felling Cycle, Felling Series and Annual Coupes

Felling cycle: It is fixed as Ten years. The entire area of this working circle will be covered in a period of Ten years.

Felling series and annual coupes: The entire area of this working circle has been divided into 23 felling series. Each felling series has been further divided into 10 annual coupes. Details are provided in the **Appendix XXXIV**.

Regulation of yield: No yield is prescribed for this working circle. Only hygienic felling are prescribed.

10.9 Demarcation and Treatment Prescriptions

The coupe demarcation, preparation of treatment map and marking will be done one year in advance.

Treatment Map: Treatment map shall be prepared in detail well in advance to facilitate effective planning for raising nursery stock and also to mobilise financial resources to execute the work.

Treatment Prescribed: Treatment map shall be prepared for each working coupe on the basis of treatment prescribed for various areas. Treatment map should invariably be verified by ACF before estimates are technically approved by the DCF.

Area specific treatment is as below:

A - Type Areas (Protection Areas)

They will include-

- ☑ A1 type areas, which have slope more than 25° ,
- ☑ A2 type areas, i.e. 30 m wide strip on both sides of streams,

B - Type Areas (Under-stocked Areas)

- ☑ The open forests with root stock as well as without root stock shall be shown in the treatment map.
- ☑ The areas which were earlier planted but the plantations have failed.

C - Type Areas (pole crop)

Areas with sufficient pole crop of valuable species which can be retained as future crop shall be marked separately.

D - Type Areas: Well-stocked Areas

Well stocked areas shall be separately shown in the treatment map.

Extent of plantation: Requirement of site would be the prime consideration for deciding the extent of plantation. However, in each coupe, not more than 50 ha be taken up for plantation. While taking plantations under special schemes such as NREGA, FDA, DPDC etc the areas under due coupes should be invariably considered.

10.10 Marking Rules and Prescriptions

Marking technique and prescriptions described in the Chapter of the Miscellaneous Regulations shall be followed.

Marking shall be carried out under the close supervision of the RFO and under guidance of ACF concerned. DCF shall himself inspect majority of coupes to ensure proper marking and to guard against excessive marking, if any.

The following rules shall be observed strictly for marking the trees for felling in various prescribed treatment type areas;

A-Type Areas: Protection Areas:

1. No tree shall be marked for felling.

B-Type Areas: Under stocked Areas:

1. No standing tree shall be marked for felling except dead trees retaining at least 2 trees/ha as snags.
2. All live high stumps shall be marked.
3. In case of Coppice regeneration, 1 or 2 most promising shoot will be retained and rest marked for removal.
4. Areas which do not contain sufficient natural regeneration or rootstock will be artificially regenerated by suitable local species. In case, the areas selected contain old unsuccessful plantations, such areas shall be treated only after examining the factors responsible for failure and upon taking prior approval from the CCF (T).

C -Type Areas: Groups of young poles:

1. The congested pole crop shall be marked for thinning to maintain spacing equal to $1/3^{\text{rd}}$ of the crop height. Poles of seedling origin shall be preferred for retention over the poles of coppice origin.
2. Dead poles shall be marked for thinning.
3. Multiple poles shall be thinned to retain one promising pole per stump/stool.

D - Type Areas: Well-stocked Areas:

1. All dead trees shall be marked for felling except two trees per hectare which shall be retained as snags.
2. All live high stumps shall be cut back to the ground level.
3. All but one or two promising coppice pole per stool shall be marked for felling.

Sequence of Working: Demarcation of coupe, preparation of treatment map, marking, felling, PPO works will be done in the same year. Sequence of operations is depicted in **Appendix No. XXXIII.**

10.11 Methods of Regeneration

Tending of Natural Regeneration and existing rootstock is prescribed to be given preference over plantations. The areas having promising NR and rootstock patches shall be identified and marked on the treatment map. Cultural operations for natural regeneration in the D-type areas and rootstock management in the B-type areas are prescribed.

Soil and moisture conservation works in the areas put under this working circle will be done as prescribed in the relevant paras under Miscellaneous Regulations and in accordance with specific guidelines issued from time to time in this regard. Hence, no specific quantum of such works has been prescribed.

Plantations shall be taken in the B-type areas (but not in natural blanks wherein geology, soil and water regime does not support tree growth) which have good soil depth and are well drained. Choice of species is carefully selected as per site suitability. Improved nursery practices including Root trainers shall be adopted to raise quality seedlings.

It shall be ensured that no seedling is planted within 3 meters distance from an established seedling or existing trees. The standing trees have influence zone of spreading shadow and pits should not be dug either in the shadow or in the influence zone of the standing trees. Influence zone for various sizes of trees are as given below.

Zone of influence of trees

Sr. No.	Girth class (cm)	Influence zone (metre)
1.	< 30	2
2.	30-60	3
3.	60-90	4
4.	90-120	5
5.	> 120	6

10.12 Closure to Grazing and Fire Protection

Protection from fire and grazing is essential for success of natural and artificial regeneration.

All annual coupes will be provided strict fire protection and will remain closed to grazing till the seedlings reach a minimum height of 10 feet.

10.13 Institutional Frame Work for Executing Afforestation Work

1. Agency of Implementation: For the success of afforestation works, role of local communities is extremely important. Therefore, afforestation works under this

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working circle are to be entrusted to JFMCs as per area allotted to JFMCs and forest department should provide technical guidance. Already, Govt. of Maharashtra has identified JFMCs as implementing agency for NREGA works.

2. NREGA Scheme can be effectively used for raising tall seedlings. This would bring in suitable convergence between the Non-plan budget resources and funds from special scheme like NREGA.

3. For protection of such plantations, JFMCs should be asked to select protection labour from among their members as per guidelines of G.R. of July 2012. This model would enable intensive protection and management of small patches.

4. Treatment map shall be prepared for each working coupe on the basis of treatment prescribed for various areas. Treatment map should invariably be verified by ACF before estimates are technically approved by the DCF. DCF shall ensure that the ACF has verified about the suitability of site.

10.14 Positive Deviations:

Afforestation activities are budgetary intensive and the pace of afforestation is directly proportional to the funds allocated for such activities. Therefore, the extent of Afforestation works may vary from year to year due to fluctuation in budgetary allocations. Hence, to achieve convergence between the objective of Afforestation and the utilization of funds allocated for such works, deviations in the sequence of working will be treated as positive deviations.

APPENDIX NO. XXXII

ALLOTTMENT OF COMPARTMENT TO AFFORESTATION WORKING CIRCLE

(1) Name : - Khapa Felling Series

		RF		PF		Total	
Sr.No	Range	Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.	Comptt.RF +PF	Total Area in ha.
1	Narkhed	4	220.14	89	41.350		
		5	144.88	91	141.070		
				92	131.03		
				93	147.2		
				90	28.680		
Total of Felling Series of Area		2	365.02	5	489.33	7	854.35

(2) Navegaon Felling Series

Sr.No	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Narkhed			71	198.59		
				72	149.46		
				73	302.15		
				75	133.36		
				76	92.55		
Total of Felling Series of Area		0	0	5	876.11	5	876.110

(3) Name : - Ambada Felling Series

Sr.No	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Narkhed			1	32.46		
				2	171.63		
				3	47.8		
				9	91.21		
				13	99.52		
				14	73.86		
				11	125.61		
				12	82.15		
				13	52.09		
				16	286.32		
Total of Felling Series of Area		0	0	10	1062.65	10	1062.650

(4) Name : - Arambhi Felling Series

Sr.No	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Narkhed	89	162.68	20	73.17		
		88	222.17	19	60.74		
		87	179.28	18	64.77		
		85 B	62.32	23	144.43		
				22	91.56		
				28	61		
				27	139.79		
				34	41.53		
				26	99.62		
Total of Felling Series of Area		4	626.45	9	776.61	13	1403.06

(5) Name : - Zilpa Felling Series

Sr.No	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt.No.	Area in Ha.	Comptt. No.	Area in Ha.		
2	Katol			95	144.11		
				116	30.85		
				117	151.16		
				118	94.63		
				119	144.94		
				120	308.36		
				100	2.99		
				97	185.44		
				79	172.86		
				80	89.6		
Total of Felling Series of Area		0	0	10	1324.94	10	1324.940

(6) Name : - Bhorgad Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt.No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Katol	72	259.81	45	254.890		
		73	231.08	51	73.970		
				55	121.560		
				54	223.900		
Total of Felling Series of Area		2	490.89	4	674.32	6	1165.210

(7) Name : - Junewani Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Katol			40	295.330		
				33	179.120		
				41	241.580		
				42	171.65		
				37	18.35		
Total of Felling Series of Area		0	0.000	5	906.03	5	906.030

(8) Name : - Darli Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
3	Kondhali			131	64.54		
				129	211.73		
				130	205.59		
				132	160.2		
				122	106.69		
				101	94.43		
				109	48.99		
Total of Felling Series of Area		0	0.000	7	892.17	7	892.170

(9) Name : - Pardsinga Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Kondhali			52	77.02		
				57	47.98		
				53	194.06		
				63	96.72		
				64	77.99		
				68	67.93		

Total of Felling Seri

(10) Name : - Ganesh

Sr.No. Range

Kone

Total of Felling Ser

(11) Name : - Gorew

Sr.No. Range

4 Hi

Total of Felling Ser

(12) Name : - Chikh

Sr.No. Range

5 Bu

Total of Felling Se

(13) Name : - Venz

Sr.No. Range

Bu

Total of Felling Se

(14) Name : - Hiw

Sr.No. Range

6 I

Total of Felling S

(15) Name : - Dul

Total Area in ha.

58 80.64

59 85.33

61 236.92

Total of Felling Series of Area	0	0.000	9	964.59	964.590
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(10) Name :- Ganeshpur Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Kondhali	26	87.3	126	209.59		
		36	75.48	113	91.47		
				114	104.21		
				86	131.13		
				85 B	53.86		
				85A	119.9		
				69	54.25		
Total of Felling Series of Area		2	162.780	7	764.41	9	927.190

1324.940

Total Area in ha.

(11) Name :- Gorewada Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
4	Hingna	777B	2.89	153	163.21		
		298	125.44	188	140.98		
				184	87.45		
Total of Felling Series of Area		2	128.330	3	391.64	8	519.970

1165.210

Total Area in ha.

(12) Name :- Chikhaldhokda Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
5	Buttibori	393	24.72	362B	54.9		
		395	277.21	362C	117.79		
		772	10.15	314	220.76		
Total of Felling Series of Area		3	312.080	3	393.45	6	705.530

906.030

Total Area in ha.

(13) Name :- Vena Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Buttibori	312	157.22	312	131.57		
				335	216.5		
				334	208.95		
Total of Felling Series of Area		1	157.220	3	557.02	4	714.240

(14) Name :- Hivra Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
6	Paoni	556	91.86	245	127.07		
		755	27.28	280	83.22		
				289	163.69		
				299	68.17		
				271	251.02		
				272	50.11		
				298	40.22		
Total of Felling Series of Area		2	119.140	7	783.5	9	902.640

892.170

Total Area in ha.

(15) Name :- Dulara Felling Series

RF		PF		Total
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Sr.No.	Range	Con	Area in Ha.	Comptt.No.	Area in Ha.	Comptt.RF + PF	Total Area in ha.
7	Deolapar	738B	16.12	268	51.43		
		736B	15.78	253	45.42		
		736A	78.32	278	185.28		
		737A	4.05	266	20.7		
				265	126.89		
				264	64.06		
				276	12.13		
				286A	45.88		
				286	99.52		
				277P	13.85		
Total of Felling Series of Area		4	114.270	10	665.16	14	779.430

(16) Name :- Badegaon Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF + PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
8	Khapa			213	157.77		
				212	38.74		
				211	36.66		
				215	28.03		
				204	61.03		
				200	45.39		
				198	75.9		
9	Parshioni	730	33.03	239	23.12		
				229	99.04		
				234	160.1		
Total of Felling Series of Area		1	33.030	10	725.78	11	758.810

(17) Name :- Patgowari Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF + PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
10	Ramtek			243	67.96		
				244A	41.97		
				244B	85.53		
				251	242.88		
				261	150.63		
				273	399.17		
Total of Felling Series of Area		0	0.000	6	988.14	6	988.140

(18) Name :- Tuyapar Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF + PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Ramtek	408	100.76	283A	126.03		
		407	79.72	283B	22.27		
				295A	150.2		
				295B	123.63		
				284	94.19		
Total of Felling Series of Area		2	180.480	5	516.32	7	696.800

(19) Name :- Tangla Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF + PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	Ramtek			306	97.92		

Total of Felling Series

(20) Name :- Nand

Sr.No. Range

11 South U

Total of Felling Series

(21) Name :- Chikl

Sr.No. Range

South U

Total of Felling Series

(22) Name :- Kuh

Sr.No. Range

12 North

Total of Felling Series

(23) Name :- Hii

Sr.No. Range

North

Total of Felling Series

Grand Total AF

Cirel

t.RF Total Area in ha.

779.430

t.RF Total Area in ha.

758.810

t.RF Total Area in ha.

988.140

t.RF Total Area in ha.

696.800

t.RF Total Area in ha.

				307	319.97		
				304	140.22		
				303	149.12		
				305	174		
Total of Felling Series of Area		0	0.000	5	881.23	5	881.230

(20) Name :- Nand Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
11	South Umred	771	9.07	474	55.27		
				476	12.31		
				418	16.59		
				410	25.39		
				366	66.75		
				364	275.22		
				377	197.17		
Total of Felling Series of Area		1	9.070	7	648.7	8	657.770

(21) Name :- Chikhaldhokad Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	South Umred	382	157.15				
		381	405.9				
		380	293.4				
Total of Felling Series of Area		3	856.450	0	0	3	856.450

(22) Name :- Kuhi Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
12	North Umared			443	261.54		
				430A	101.11		
				430B	17.12		
				409C	14.54		
				393	171.5		
				394	25.35		
				395	91.6		
				431	47.15		
				410	7.03		
				411	37.72		
				447	21.26		
				457	34.7		
				473	98.34		
				473	14.98		
				475B	35.42		
Total of Felling Series of Area		0	0.000	15	979.36	15	979.360

(23) Name :- Hiwra Felling Series

Sr.No.	Range	RF		PF		Total Comptt.RF +PF	Total Area in ha.
		Comptt. No.	Area in Ha.	Comptt. No.	Area in Ha.		
	North Umared	402	206.8	316	138.98		
		400	237.15	370	250.58		
		401	175.23	368	245.14		
Total of Felling Series of Area		3	619.180	3	634.7	4	1253.880
Grand Total AFF. Working Circle		32	4174.39	148	16896.16	172	21070.55