ANNUAL FELLING & REGENERATION PROPOSAL

FOR THE YEAR 2022-23

Forest Development Corporation of Maharashtra Limited, Nagpur
(Government of Maharashtra Enterprise)

FOREST DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED
(Govt. of Maharashtra Enterprise)
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"वनाचा समग्र विकास हाच आमचा ध्यास"

Desk-PLN/F&R Proposal/2022-23/C.R.09/1505 Dated-25.07.2022

To,
The Deputy Director General,
Integrated Regional Office (West Central Zone)
Ministry of Environment and Forest and Climate Change
New Secretariat Building,
Civil Lines, Nagpur-440001.

Sub-Proposal for Felling/Regeneration Activities to be undertaken during the year 2022-23.

The proposal for felling and regeneration in respect of forest areas managed by the Forest Development Corporation of Maharashtra Ltd. (FDCM), is hereby submitted for the approval to the Regional Office of the MoEFCC.

2.00 Timely execution of the forestry operations is key to the effective management of forests. The ultimate objective of Coupe-working is aimed at regeneration of forests and to ensure that felling is commensurate to regeneration. These aims can be achieved if and only if the full working season is available for execution, i.e. the annual operations are commenced immediately after the monsoon. At the outset, the FDCM is grateful to the Central Government for according timely permission for carrying out operations during the year 2021-22. It is because of this single factor, all silvicultural operations prescribed for the year 2021-22 could be completed on time, material harvested could be taken out from forests and brought to jungle depots before the fire season and eventually transported to sale-depots well before the onset of monsoon this year. As a natural consequence, the annual felling and regeneration proposal for the year 2022-23 is also being submitted herewith well in time.

3.00 The FDCM has been managing forest areas leased out to it from time to time by the Maharashtra Forest Department. At present, forest areas with the FDCM is divided into three regions, namely Nagpur, Nashik and Chandrapur, spreading over fourteen Forest Project Divisions. The Management Plans of all above 14 Forest Project Divisions have been duly approved by the Regional office of MoEFCC. Out of the above, Management Plans in respect of eleven Divisions have been approved till the year 2025-26, two are in force till 2023-24 and remaining one has validity up to the year 2026-27.

4.00 The working-circles into which the said forest areas are classified under above said Management Plans are as follows-

1. Teak Plantation Rebiosement Working Circle
2. Improvement Working Circle
3. Afforestation Working Circle
4. Planting Stock Improvement Working Circle
5. Selection cum Improvement Working Circle (Nashik Region only)

5.00 It is worth mentioning that the objectives of various Working Circles under the Management Plans are specific and precise in nature. Each Working Circle lays down prescriptions for tackling forest areas falling under it and crop therein to meet the specific objectives. Working Circles are divided into annual Coupes, having appropriate area, which is required to be tackled, based on management plans prescriptions. The annual yield is therefore regulated based on the area of annual coupes, which are demarcated in advance. General characteristics of vegetation, special objectives management and management prescriptions of various working circles are summarized as under –

6.00 TEAK PLANTATION AND REBOISEMENT WORKING CIRCLE

6.01 GENERAL CHARACTERISTICS OF VEGETATION- The forests are mixed in nature and contain trees of all age-classes. The crop consists mainly of miscellaneous species with varying proportions of teak. In some compartments, pure Teak trees are also present, but they are confined to the well-drained and area consisting of good loamy soil. The major miscellaneous species are Saja (Terminalia tomentosa), Bija (Pterocarpus marsupium), Kalam (Mytragyna perviflor), Haldu (Adina cordifolia), Tiwas (Ougennia oogeinensis), Dhaoda (Anogeissus latifolia), Garadi (Cleistanthus collinus), Mowai (Lannea coromandelica), Rohan (Soymida febrifuga), Bihrra (Chloroxylon swietenia), Surya, Lendia (Lagerstroemia parviflora), Chichwa (Albizzia odoratissima), Parad etc. In the fruit bearing speices Tendu (Diospyros melanoxylon), Moha (Madhuca indica), Char (Buchanania lanzan), Aonla (Emblica officinalis), Bel (Aegle marmelos), Harra (Terminalia chebula) and Beheda (Terminalia bellerica) are the main species in the under-storey.

6.02 The failed Teak plantation areas are covered with advance growth of Saja (Terminalia tomentos), Birra (Chloroxylon swietenia), Rohan (Soymida febrifuga), Garari (Cleistanthus collinus) and other inferior miscellaneous species.

6.03 SPECIAL OBJECTIVES OF MANAGEMENT:

1. To enhance the productivity of the forest by supplemental artificial regeneration of genetically superior stock.
2. To create a normal age-gradation classes.
3. To obtain sustained supply of medium to large size timber and poles.
4. To utilize the land for optimum economic productivity and sustained yield.
5. To generate employment in Rural and Tribal areas.

6.04 **Criterion for Felling: The Critical Crop Girth (CCG)**—The silvicultural system on which the aforesaid working circle is based is the **Conversion to Uniform System with Supplemental Artificial Regeneration of Genetically Superior Stock**, duly approved by the MoEF vide their letter No. 9-10/2001(RoHQ) Dtd. 20.12.2001 and No. 6-5/2000 (RoHQ) Dtd. 02.08.2001. Copies are collectively enclosed as **Annexure-1** for the ready reference. In this silvicultural system, a sustainability yardstick, succinctly expressed as the **Critical Crop Girth,** is used to determine the availability of a forest patch of definite area, for its harvest. Annual Coupes are therefore harvested section-by-section (grids admeasuring 100 m x 100 m), if and only if the average crop-girth of a given section is found to be greater than the **Critical Crop Girth**, corresponding to the site-quality and crop-composition to which that particular section belongs to. The **Critical Crop Girth** is unique for different site-qualities and crop-composition. In other words, if a crop having crop girth less than the CCG, is harvested, the productivity of the site shall go down in proportion to the difference. Critical Crop Girths for different site-qualities and crop-composition have been prescribed in Management Plans.

6.05 **Management practice--** It may be appreciated that among all working-circles, it is primarily the Teak Plantation and Rebiosement Working Circle, which is associated with the planned felling of trees based on pre-determined objective criterion. The entire area is divided into grids of 1 ha. (100m x 100m) and 100% enumeration is carried out. Based on the enumeration, the basal area is calculated. The average crop-girth, based on the basal area in each such grid is calculated and felling is carried out only in those grids wherein the average crop girth so calculated is more than the **Critical Crop Girth** which has been prescribed site-quality wise in the Management Plans. The trees are accordingly marked for felling only in such grids. Trees are not marked for felling in those grids where average crop girth is lesser than the Critical Crop Girth. The site quality wise **Critical Crop Girth** for different site-qualities and crop-compositions (extent of non-teak species in the crop) is prescribed in Management Plans is tabulated as follows---

Table

Sr. No.	Average height of Dominant mature Trees in Crop.	Corresponding All India Teak Site Quality	Proportion of Teak Bija, Ain, Haldu and Kalamb in the Crop	Critical Crop Girth
1	2	3	4	5
1	upto 21 m	Up to III	More than 40%	70 cm
2	upto 21 m	Up to III	20% to 40%	60 cm
3	upto 21 m	Up to III	Below 20%	50 cm
4	21 to 27 m	II/III, II	More than 40%	85 cm
5	21 to 27 m	II/III, II	20% to 40%	75 cm
6	21 to 27 m	II/III, II	Below 20%	65 cm
7	Above 27 m	I/II, I	More than 40%	110 cm
8	Above 27 m	I/II, I	20% to 40%	95 cm
9	Above 27 m	I/II, I	Below 20%	80 cm

6.06 Marking Prescriptions--- Following regulatory principles are followed---

1. All young to middle-aged fruit bearing trees up to 20 trees / ha. are retained.
2. Young to middle-aged trees of semal, khair, rosewood and other superior miscellaneous species upto 20 trees / ha uniformly spread over the area are retained.
3. No felling is done on either side of nallas/streams, river-banks upto 20 m. distance.
4. The section size at a place is kept below 20 ha.
5. 5-meter width strip of natural forest is retained on all sides of sections.
6. Genetically superior planting stock is used.
7. In case, adequate numbers of fruit trees are not available equivalent numbers of miscellaneous trees are retained. All kullu (Sterculia urens), mahua (Madhuca indica), chinch (Emblica officinalis) and mango (Mangifera indica) trees, irrespective of their age are reserved and not marked for felling.
8. No felling is carried out in areas having teak site quality IV, water logged areas, and areas having slope more than 25 degrees.

7.00 IMPROVEMENT WORKING CIRCLE

7.01 GENERAL CHARACTERISTICS OF VEGETATION- Areas allocated to this Working Circle are mainly linear strips surrounding teak plantation having density between 0.4 to 0.6, with all India Teak Site Quality varying from **III to IV-b** and partly under stocked. Most of the areas consist of miscellaneous crop. Predominant species are Bija (Pterocarpus marsupium), Ain (Terminalia tomentosa), Haldu (Adina cordifolia), Dhawada (Anogeissus latifolia), Salai (Boswellia serrata), Mowai (Lannea coromandelica), Shisham (Dalbergia latifolia), Khair (Acacia catechu), Anjan (Hardwickia binnata), Garadi (Cleistanthus collinus), Bherra (Chloroxylon swietenia), Lendia (Lagerstromia perviflora) etc. along with **sparse teak**.

7.02 Crop is near to maturity and the regeneration of principal species is adequate but is suppressed due to mature top tree canopy. The forests allotted to this Working Circle are in a degraded stage and require Improvement.

7.03 SPECIAL OBJECTIVES OF MANAGEMENT:

1. To improve the quality and productivity of the existing crops by improvement felling, tending operations in favour of valuable species and supplementary plantation, all these measures are aimed at nursing back these forests to normalcy.
2. To remove dead, malformed and diseased trees with a view to facilitate regeneration.
3. To meet the bonafide needs of the local people by carrying out the hygienic tending and thinning operations, expected to provide small timber, poles and firewood.
4. To conserve the biological diversity of the area.

7.04 Management prescriptions—This Working Circle prescribes removal of matured trees above the harvestable girth to create opening in the tree canopy,

thereby, facilitating tree-growth in the lower girth classes of teak and other valuable light-demander (shade-intolerant) species.

7.05 Areas containing dense pole crops are thinned during the working. The areas poor in natural regeneration are artificially regenerated by appropriate species as per the requirement of site.

7.06 Considering the general characteristics of crop, basic objective of management and the prescriptions mentioned above, no rotation has been fixed as the basic idea is to improve the growing stock by tending of recruitment, thinning in pole crop removal of dead and diseased trees.

7.07 Harvestable Girth—This working circle aims at improvement of the crop, and therefore, harvesting is not visualized. Nevertheless, for the purpose of managing a few dense patches of over-matured trees, the harvestable girth adopted for the SCI working circle areas has been applied for this working circle. Harvestable girths for Teak and its associates as well as for other species for different site qualities have been prescribed in respective Management Plans, having this Working Circle.

7.08 Silviculturally Available Trees---A tree is said to be silviculturally available if its removal---

i) does not create a permanent gap in the canopy,
ii) tends to improve the remaining crop in terms of volume production, or
iii) helps the growth of young trees down to the saplings stage of any of the valuable species.

7.09 It may therefore be appreciated that the felling is basically aimed at for the purpose of improvement of the crop and not for the yield.

8.00 AFFORESTATION WORKING CIRCLE

8.01 GENERAL CHARACTERISTICS OF 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 allotted areas in general are highly degraded, under stocked and open with canopy density less than 0.4.

8.02 The crop consists mainly of scattered trees or patches of open forests. The principal species is Teak (Tectona grandis), Saja (Terminalia tomentosa) and its common associates are Dhaoda (Anogeissus latifolia), Bhirra (Chloroxylon swietenia), Rohan (Soymida febrifuga), Tendu (Dispyros melanoxylon), Lendia 9Lagerstroemia parviflora), Salai (Boswellia serrata), Mowai (Lannea coromandelica), Char (Buchnania lanzan) and Palas (Butea monosperma) etc., The dominant teak-site quality is IV. The canopy-density of the vegetation varies from blank to 0.4. The crop is generally young with occasional middle aged or mature trees. Natural regeneration of common species is very less due to compactness of soil because of unregulated grazing and fire and hence their establishment is poor.

8.03 SPECIAL OBJECTIVES OF MANAGEMENT

1. To restore the vegetative cover of the degraded and open areas.
2. To increase their productivity by site protection and tending of natural regeneration and rootstock, supplementing it with plantations of desired species, wherever, necessary.
3. 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.
4. To improve the habitat of wild animal and birds.

8.04 It may therefore be seen that in this Working-Circle only wind-fallen dead and extremely malformed trees are removed, without any consideration for the yield as such.

9.00. PLANTING STOCK IMPROVEMENT WORKING CIRCLE— This Working Circle includes Seed Stands, Seed Production Areas and Seed Orchards mainly of Teak.

9.01 Seed Stand (SS)—The seed stand is a crop raised of vigorously growing, middle aged trees of good quality. It is the crop from seed origin and not from coppice origin.

9.02 Seed Production Areas (SPA)—Seed Stands are gradually converted into SPA by removing inferior trees and regaining best superior trees.

9.03 Seed Orchards—Seed orchard is a stand of trees of selected clones or progenies, which are isolated or managed to avoid or reduce pollination from outside sources, managed to produce frequent abundant and easily harvested crop of seed.

9.04: GENERAL CHARACTERISTICS OF VEGETATION

The selection of seed area has been done as per the technical guidance of the experts. The Seed Stand and Seed Production Areas are selected from phenotypically superior old plantations/natural forest in order to collect the superior quality seeds. Orchards are the clonal progenies of plus trees. Seeds obtained from orchard are supposed to be genetically superior as compared to Seed Stand and Seed Production Areas. The crop in this Working Circle is predominantly of Teak (Tectona grandis) with Sisoo (Dalbergia latifolia) and Shivan (Gmelina arborea).

9.05 SPECIAL OBJECTIVES OF MANAGEMENT:

The primary object of management of this area is to supply quality seeds for the plantation activities in the forestry sector to enhance the productivity of forest. The main objective of teak improvement programme is to produce seed for superior timber

quality, fast growth & higher disease resistance by selection and breeding technology.

10.00 SELECTION CUM IMPROVEMENT WORKING CIRCLE (Only Nashik Region).

10.01 GENERAL CHARACTERISTICS OF VEGETATION-- The forest mostly belongs to the type "Moist Teak Bearing Forest" and this area comprise mostly mixed forest. The density of this forest is between 0.4-0.6 bearing miscellaneous species and sparsely Teak in patches. The crop is conspicuously deficient in the higher girth classes, on account of heavy grazing and the repeated fires. Natural regeneration particularly, of valuable species is also sparse.

10.02 SPECIAL OBJECTIVES OF MANAGEMENT:

1. To maintain and improve the soil cover so as to prevent accelerated soil erosion on steep hill slopes and thus to preserve and improve the site quality.
2. To obtain big size timber of Teak and other valuable species.
3. To increase the proportion of valuable species by proper treatment and by planting in the gaps.
4. To maintain the biodiversity.

11.00 GENERAL

11.01 Taking into consideration the general character of the vegetation, special objectives and management prescriptions under different working circles, it is primarily the Teak Plantation and Rebiosement Working Circle where predetermined felling based on objective criterion is envisaged and therefore it is primarily this working circle, which technically falls in the purview of annual felling permission. Going by the prescriptions of the working plans for rest of the working circles, it is evident that fellings if any, are basically meant for hygiene of the crop by removal of unwanted vegetation/growth, causing undue hindrance to the natural regeneration and vigorous growth of the principal species.

11.02 The Yield-Estimation is relied upon the local Volume Tables for the Teak, which specifies the site-quality wise and girth-class wise apportionment of yield of standing trees in terms of stem-timber (u.b.) and small wood (o.b.) based on quarter-girth measurements. While according the approval for the year 2021-22, the IRO advised that the FDCM should carry out exercise for preparation of the latest local volume tables of all major species to be felled in all regions to get realistic estimation of the yield. As a first step in that direction, the FDCM has come up with the revised and updated edition of the Yield and Stand Tables for the Teak, which has already been published. The FDCM will take further necessary steps for compilation of local Volume Tables for other major species also.

11.03 Thus, depending on the composition of crop, i.e. the extent of non-teak species present in different proportion in different localities, other local composite factors and form of individual trees themselves (malformed, crooked, dead, deceased, dying etc.), the actual yield has been found to be varying to some extent from that of the anticipated yield, if considered strictly on the basis of its classification, namely stem-timber and small-wood. However as stated above, since the yield is purely area-regulated (areas of the annual coupe), the minor aberration on that count is automatically taken care of.

11.04 So far as the deviation of actual yield from the estimated one is concerned, it is worth mentioning that, the yield estimation of standing trees in terms of **stem-timber** and **small wood** is solely based on silvicultural criteria. However, the felled and extracted material is stacked in sale-depots purely on basis of utilization criteria i.e. market considerations. The figures of actual yield are based on material measured in the depots. Under such considerations, the estimated **stem-timber based on silvicultural considerations** may not be the **timber based on market considerations** after harvesting. As a result, based on utilization criteria, it needs to be classified under the category of 'firewood' (small timber). This phenomenon is distinctly observed where the crop is predominantly composed of non-teak species. On the other hand, where the crop predominantly comprises teak and its associates, the major component of actual yield is found to be timber and the small wood component of the actual yield is significantly lower than what was anticipated from the standing trees.

For example, from the market point of view, certain species viz. *garari, lendia, dhaman, ghogar, hivar, dhoban, waranga, apta, palas* etc. inherently belong to firewood category, irrespective of the girth-class they belong to. As a consequence, the entire volume is considered as small-wood, irrespective of girth-class. On the other hand, material harvested from predominantly timber species like teak and its associates may happen to be small-wood on silvicultural considerations, however from market point of view, they are classified as **timber** and not **firewood**.

11.05 It may therefore be seen that although the actual yield in terms of volume of stem-timber and small-wood may vary from the cubical contents under these categories, if considered individually, however the total volume content in both categories taken together, is by and large within the limits of the total anticipated yield.

11.06 The yield figures with respect to small wood have been mentioned in cubic meter instead of in number of beats, as all records in that respect are maintained in terms of cubic meter. A separate sheet showing the yield of small wood in terms of number of beats is also enclosed for ready reference.

11.07 As an abundant precaution and to ensure closer monitoring on harvesting operations, a system has been brought in place, whereby all Divisions are required to submit weekly report of felling operations. Such weekly reports were regularly scrutinized and analyzed at regional level as well as at the level of the Managing Director.

12.00 All requisite formats for seeking approval for the year 2022-23 are duly enclosed. It is therefore requested to place the proposal for the consideration of the Regional Empowered Committee for its approval.

Encl:-As above.

O.C. approved by Managing Director

Your's sincerely

(Sanjeev Gaur)
Chief General Manager (Planning)

Annexure - I

ATR

(Action Taken Report)

Format for submission of Proposal for carrying out Harvesting Operations

I. Target and Achievement of year 2021-22 (previous year for which felling permission is sought)-

a) Teak Plantation and Reboisement Working Circle

Project Division	No of coupes	Physical						Expenditure Rs in lacs		Remarks
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained.	Target	Achievement	
Gondia	25	639.00	207.66	176.57	Stem Timber M^3	5673.02	3950.21	415.80	289.90	Works could not be executed over an area 31.09 ha. due to opposition from villagers.
					Poles No.	21185	10244			
					Small-wood M3	9044.15	11341.80			
Yavatmal	2021-22 = 4	475.00	72.50	72.50	Stem Timber M^3	2083.13	1780.35	15.94	44.08	
					Poles No.	22131	22938			
					Small-wood M3	3509.36	2613.60			
	2020-21 = 9	694.00	175.13	175.13	Stem Timber M^3	5143.93	4394.49	77.47	104.92	
					Poles No.	42344	39883			
					Small-wood M3	7657.52	6993.6			
Total	**13**	**1169.00**	**247.63**	**247.63**	**Stem Timber M^3**	**7227.06**	**6174.84**	**93.41**	**149.00**	
					Poles No.	**64475**	**62821**			
					Small-wood M3	**11166.87**	**9607.20**			
Kinwat	2021-22 = 1	203.02	12.13	12.13	Stem Timber M^3	435.00	219.54	20.44	11.91	
					Poles No.	6510	3116			
					Small-wood M3	473	228			
	2020-21 = 1	158.10	20.00	20.00	Stem Timber M^3	468.00	289.00	38.33	15.69	
					Poles No.	11905	10704			
					Small-wood M3	265	474			
Total	**2**	**361.12**	**32.13**	**32.13**	**Stem Timber M^3**	**903.00**	**508.54**	**58.77**	**27.60**	
					Poles No.	**18415**	**13820**			
					Small-wood M3	**738.00**	**702.00**			

Project Division	No of coupes	Physical						Expenditure Rs in lacs		Remarks
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained.	Target	Achievement	
Bhandara	2	40.00	0.00	0.00	Stem Timber M^3	0.00	0.00	0.00	0.00	
					Poles No.	0	0			
					Small-wood M3	0.00	0.00			
Nagpur	2021-22 =7	188.03	83.00	83.00	Stem Timber M^3	1256.00	1282.84	119.49	88.24	The actual yield in terms of small wood is comparatively more than the anticipated one. The reason being that the crop-composition comprises of 90% non-teak and only 10% teak and its associates. The non-teak species have expanded crown compared to teak and therefore the yield in terms of small-wood is comparatively more.
					Poles No.	3160	4093			
					Small-wood M3	4583.00	5283.60			
	2020-21 = 7	204.57	116.00	116.00	Stem Timber M^3	1471.00	1352.83	159.02	120.52	
					Poles No.	4640	4292			
					Small-wood M3	6567.00	8140.80			
Total	**14**	**392.60**	**199.00**	**199.00**	**Stem Timber M^3**	**2727.00**	**2635.67**	**278.51**	**208.76**	
					Poles No.	**7800**	**8385**			
					Small-wood M3	**11150.00**	**13424.40**			
W.Chanda	2021-22 = 3	35.00	35.00	35.00	Stem Timber M^3	158.91	146.84	25.95	9.91	
					Poles No.	4047	3842			
					Small-wood M3	432.97	483.60			
	2020-21 = 3	55.46	55.46	55.46	Stem Timber M^3	546.96	439.86	55.19	21.08	
					Poles No.	2537	2978			
					Small-wood M3	1350.08	1496.4			
	2019-20 = 1	40.55	40.55	40.55	Stem Timber M^3	437.28	315.449	52.38	20.01	
					Poles No.	10	426			
					Small-wood M3	1650.54	1572.00			
Total	**7**	**131.01**	**131.01**	**131.01**	**Stem Timber M^3**	**1143.15**	**902.15**	**133.52**	**51.00**	
					Poles No.	**6594**	**7246**			
					Small-wood M3	**3433.59**	**3552.00**			

Project Division	No of coupes	Physical						Expenditure Rs in lacs		Remarks
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained.	Target	Achievement	
Pranhita	2021-22 = 5	271.00	167.30	167.30	Stem Timber M^3	5195.89	4831.48	453.92	128.94	
					Poles No.	1591	3957			
					Small-wood M3	7553.26	4854.60			
	2020-21 = 4	163.00	163.00	20.50	Stem Timber M^3	948.890	549.68	226.61	19.93	Majority of the area was not workable and therefore area could not be tackled in its entirety.
					Poles No.	318	498			
					Small-wood M3	1982.66	532.20			
Total	**9**	**434.00**	**330.30**	**187.80**	**Stem Timber M^3**	**6144.78**	**5381.16**	**680.53**	**148.87**	
					Poles No.	**1909**	**4455**			
					Small-wood M3	**9535.92**	**5386.80**			
Markhanda	2021-22 = 12	831.12	297.29	297.29	Stem Timber M^3	12518.40	12573.737	241.99	252.74	
					Poles No.	4327	18720			
					Small-wood M3	23919.62	18012			
	2020-21 = 2	299.73	140.09	140.09	Stem Timber M^3	5145.38	5693.588	114.04	119.11	Marginal increase in stem timber is compensated in decrease in small wood.
					Poles No.	969	3670			
					Small-wood M3	8852.45	7834.8			
Total	**14**	**1130.85**	**437.38**	**437.38**	**Stem Timber M^3**	**17663.78**	**18267.33**	**356.03**	**371.85**	
					Poles No.	**5296**	**22390**			
					Small-wood M3	**32772.07**	**25846.80**			
Bramhapuri	2021-22 = 6	450.00	118.00	118.00	Stem Timber M^3	2480.22	1788.58	368.26	201.29	The entire crop consists of non-teak species only. The anticipated yield is estimated based on the local Volume Table for Teak. However, in absence of teak, the variation in terms of small wood is more. However, this variation is reasonably compensated by the equivalent decrease in the stem timber.
					Poles No.	0	0			
					Small-wood M3	4315.78	7757.40			
	2017-18 = 2	151.40	19.00	19.00	Stem Timber M^3	480.96	312.24	53.20	29.08	
					Poles No.	0	0			
					Small-wood M3	757.28	1380.00			
	2016-17 = 5	208.00	78.10	78.10	Stem Timber M^3	2227.22	1460.44	218.68	119.53	
					Poles No.	0	0			
					Small-wood M3	3378.75	5814.00			
Total	**13**	**809.40**	**215.10**	**215.10**	**Stem Timber M^3**	**5188.40**	**3561.25**	**640.14**	**349.90**	
					Poles No.	**0**	**0**			
					Small-wood M3	**8451.81**	**14951.40**			

Project Division	No of coupes	Physical						Expenditure Rs in lacs		Remarks
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained.	Target	Achievement	
Central Chanda	2021-22 = 5	120.00	90.91	90.91	Stem Timber M^3	1001.58	904.39	89.95	51.48	
					Poles No.	3063	15163			
					Small-wood M3	2349	1383			
	2020-21 = 4	105.00	95.00	95.00	Stem Timber M^3	1592.89	2155.48	102.47	58.64	Increase in stem timber is compensated by the equivalent decrease in small wood.
					Poles No.	2210	13620			
					Small-wood M3	2844.36	2140.80			
	2019-20 = 1	12.00	12.00	12.00	Stem Timber M^3	213.61	205.15	13.87	7.94	
					Poles No.	214	853			
					Small-wood M3	411.62	351.00			
	2018-19 = 1	5.00	5.00	5.00	Stem Timber M^3	34.40	23.99	3.67	2.10	
					Poles No.	319	653			
					Small-wood M3	96.66	33.00			
Total	**11**	**242.00**	**202.91**	**202.91**	**Stem Timber M^3**	**2842.48**	**3289.00**	**209.96**	**120.16**	
					Poles No.	**5806**	**30289**			
					Small-wood M3	**5701.61**	**3907.80**			
W.Nashik	5	200.00	130.00	130.00	Stem Timber M^3	76.500	30.23	8.81	4.23	
					Poles No.	267	159			
					Small-wood M3	70.00	70.40			
Grand Total	**115**	**5548.98**	**2133.11**	**1959.52**	**Stem Timber M^3**	**49589.17**	**44700.36**	**2875.48**	**1721.27**	
					Poles No.	**131747**	**159809**			
					Small-wood M3	**92064.02**	**88790.60**			

(Sanjeev Gaur)
Chief General Maanger (Planning)

b) Improvement Working Circle

Project Division	No of coupes	Physical						Expenditure Rs. In lacs	
		Total Area as per Management Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained	Target	Achievement
Nagpur	2021-22 = 11	525.00	290.87	290.87	Stem Timber M^3	74.00	100.99	59.60	28.53
					Poles No.	940	790		
					Small-wood M3	621.00	624.00		
	2020-21=7	536.00	317.00	317.00	Stem Timber M^3	42.00	50.27	55.16	31.11
					Poles No.	292	322		
					Small-wood M3	579.00	637.80		
Total	**18**	**1061.00**	**607.87**	**607.87**	**Stem Timber M^3**	**116.00**	**151.26**	**114.76**	**59.64**
					Poles No.	**1232**	**1112**		
					Small-wood M3	**1200.00**	**1261.80**		
Bhandara	7	395.00	236.00	236.00	Stem Timber M^3	20.22	15.79	6.26	7.48
					Poles No.	0	0		
					Small-wood M3	1085.00	1298.40		
Gondia	16	818.41	604.91	604.91	Stem Timber M^3	460.70	482.31	30.57	24.42
					Poles No.	977	114		
					Small-wood M3	1290.02	1669.50		
Kinwat	2021-22 = 12	662.86	662.81	662.81	Stem Timber M^3	761.00	738.27	55.79	43.86
					Poles No.	13000	5701		
					Small-wood M3	520.00	249.60		
	2020-21=8	674.61	379.54	379.54	Stem Timber M^3	651.66	653.12	44.89	25.11
					Poles No.	6856	3346		
					Small-wood M3	40.00	164.40		
Total	**20**	**1337.47**	**1042.35**	**1042.35**	**Stem Timber M^3**	**1412.66**	**1391.39**	**100.68**	**68.97**
					Poles No.	**19856**	**9047**		
					Small-wood M3	**560.00**	**414.00**		
West Chanda	2021-22 = 27	702.50	702.50	702.50	Stem Timber M^3	592.98	512.98	83.05	27.27
					Poles No.	2503	2519		
					Small-wood M3	1198.67	1159.20		
	2020-21 = 30	858.20	858.20	858.21	Stem Timber M^3	450.85	412.46	48.88	16.05
					Poles No.	1990	2014		
					Small-wood M3	11801.57	1159.50		
Total	**57**	**1560.70**	**1560.70**	**1560.70**	**Stem Timber M^3**	**1043.83**	**925.44**	**131.93**	**43.32**
					Poles No.	**4493**	**4533**		
					Small-wood M3	**13000.24**	**2318.7**		

Project Division	No of coupes	Physical						Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained	Target	Achievement
Central Chanda	1	133.07	133.07	133.07	Stem Timber M^3	7.73	8.05	1.53	0.53
					Poles No.	1	0		
					Small-wood M3	17.33	19.20		
Bramhapuri	18	917.46	867.46	867.46	Stem Timber M^3	225.43	199.45	48.63	22.46
					Poles No.	30	32		
					Small-wood M3	1159.31	970.20		
Markhanda	2021-22 = 12	795.55	712.54	712.54	Stem Timber M^3	443.44	499.63	44.19	22.92
					Poles No.	0	81		
					Small-wood M3	432.33	246.00		
	2020-21 = 1	25.00	25.00	25.00	Stem Timber M^3	12.66	11.50	1.56	0.80
					Poles No.	0	0		
					Small-wood M3	12.98	9.60		
Total	**13**	**820.55**	**737.54**	**737.54**	**Stem Timber M^3**	**456.10**	**511.13**	**45.75**	**23.72**
					Poles No.	**0**	**81**		
					Small-wood M3	**445.31**	**255.60**		
Pranhita	11	510.51	510.51	510.51	Stem Timber M^3	57.80	71.68	57.45	1.62
					Poles No.	134	53		
					Small-wood M3	90.16	90.00		
West Nashik	17	1226.43	1226.43	531.87	Stem Timber M^3	103.50	66.78	9.83	6.38
					Poles No.	185	0		
					Small-wood M3	128.00	133.08		
Grand Total	**178**	**8780.59**	**7526.84**	**6832.28**	**Stem Timber M^3**	**3903.97**	**3823.27**	**547.39**	**258.54**
					Poles No.	**26908**	**14972**		
					Small-wood M3	**18975.37**	**8430.48**		

(Sanjeev Gaur)
Chief General Manager (Planning)

c) Afforestation Working Circle

Project Division	No of coupes	Physical						Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained	Target	Achievement
Nagpur	2021-22 =10	564.00	85.00	85.00	Stem Timber M^3	0.00	0.00	22.32	7.69
					Poles No.	0	0		
					Small-wood M3	464.00	156.00		
	2020-21=10	551.02	339.00	339.00	Stem Timber M^3	4.00	3.21	58.23	30.66
					Poles No.	175	296		
					Small-wood M3	126.00	548.40		
Total	**20**	**1115.02**	**424.00**	**424.00**	**Stem Timber M^3**	**4.00**	**3.21**	**80.55**	**38.35**
					Poles No.	**175**	**296**		
					Small-wood M3	**590.00**	**704.40**		
Bhandara	6	189.00	50.00	50.00	Stem Timber M^3	0.00	0.00	5.16	5.65
					Poles No.	0	0		
					Small-wood M3	998.00	417.00		
Yavatmal	2021-22 = 8	282.00	282.00	282.00	Stem Timber M^3	21.56	18.89	1.63	2.00
					Poles No.	371	167		
					Small-wood M3	190.76	102.00		
	2020-21 = 10	381.60	381.60	381.60	Stem Timber M^3	25.76	20.40	1.54	2.36
					Poles No.	329	332		
					Small-wood M3	190.98	98.40		
Total	**18**	**663.60**	**663.60**	**663.60**	**Stem Timber M^3**	**47.32**	**39.30**	**3.17**	**4.36**
					Poles No.	**700**	**499.00**		
					Small-wood M3	**381.74**	**200.40**		
Kinwat	2021-22 = 4	155.56	155.56	155.56	Stem Timber M^3	62.00	60.69	13.22	8.96
					Poles No.	1100	558		
					Small-wood M3	125.00	26.40		
	2020-21 = 3	129.58	111.58	111.58	Stem Timber M^3	66.59	58.79	11.40	6.43
					Poles No.	662	519		
					Small-wood M3	5.00	26.40		
Total	**7**	**285.14**	**267.14**	**267.14**	**Stem Timber M^3**	**128.59**	**119.48**	**24.62**	**15.39**
					Poles No.	**1762**	**1077**		
					Small-wood M3	**130.00**	**52.80**		

Project Division	No of coupes	Physical						Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained	Target	Achievement
W.Chanda	2021-22 =16	405.60	405.60	405.60	Stem Timber M^3	199.35	178.23	28.37	10.58
					Poles No.	1178	1109		
					Small-wood M3	617.49	601.80		
	2020-21=16	426.75	426.75	426.75	Stem Timber M^3	212.32	196.57	24.01	8.95
					Poles No.	943	943		
					Small-wood M3	587.52	562.20		
Total	**32**	**832.35**	**832.35**	**832.35**	**Stem Timber M^3**	**411.67**	**374.80**	**52.38**	**19.53**
					Poles No.	**2121**	**2052**		
					Small-wood M3	**1205.01**	**1164.00**		
C.Chanda	1	20.00	20.00	20.00	Stem Timber M^3	0.00	0.00	0.08	0.07
					Poles No.	0	0		
					Small-wood M3	14.40	8.40		
Bramhapuri	14	934.00	895.00	895.00	Stem Timber M^3	75.75	67.96	34.40	14.15
					Poles No.	0	32		
					Small-wood M3	1170.05	1021.80		
Grand Total	**98**	**4039.11**	**3152.09**	**3152.09**	**Stem Timber M^3**	**667.33**	**604.74**	**200.36**	**97.50**
					Poles No.	**4758**	**3956**		
					Small-wood M3	**4489.20**	**3568.80**		

(Sanjeev Gaur)
Chief General Manager (Planning)

d) Improvement Felling in Teak Plantation Reboisement Working Circle

Project Division	No of coupes	Physical						Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained	Target	Achievement
-Yavatmal	2021-22 = 11	330.50	330.50	330.50	Stem Timber M^3	129.17	112.89	5.15	5.17
					Poles No.	2361	2050		
					Small-wood M3	486.11	369.60		
	2020-21=20	391.87	391.87	391.87	Stem Timber M^3	177.60	139.29	19.42	6.22
					Poles No.	2586	2039		
					Small-wood M3	521.54	282.00		
Total	**31**	**722.37**	**722.37**	**722.37**	**Stem Timber M^3**	**306.77**	**252.19**	**24.57**	**11.39**
					Poles No.	**4947**	**4089**		
					Small-wood M3	**1007.66**	**651.60**		
Kinwat	2021-22 = 4	112.02	112.02	112.02	Stem Timber M^3	89.00	90.69	7.93	4.92
					Poles No.	1473	885		
					Small-wood M3	175.00	52.80		
	2020-21 = 3	97.00	97.00	97.00	Stem Timber M^3	103.49	92.47	7.22	5.03
					Poles No.	1186	1024		
					Small-wood M3	5.00	60.00		
Total	**7**	**209.02**	**209.02**	**209.02**	**Stem Timber M^3**	**192.49**	**183.16**	**15.15**	**9.95**
					Poles No.	**2659**	**1909**		
					Small-wood M3	**180.00**	**112.80**		
Bramhapuri	2021-22 = 12	332.00	332.00	332.00	Stem Timber M^3	104.53	113.21	18.59	10.85
					Poles No.	0	0		
					Small-wood M3	455.32	666.60		
	2018-19 = 1	19.44	19.44	19.44	Stem Timber M^3	4.02	3.13	1.06	0.62
					Poles No.	0	0		
					Small-wood M3	5.38	7.20		
	2017-18 = 5	132.40	132.40	132.40	Stem Timber M^3	30.51	35.18	7.41	4.33
					Poles No.	0	0		
					Small-wood M3	98.35	133.20		
	2016-17 = 6	129.90	129.90	129.90	Stem Timber M^3	25.49	26.59	7.27	4.24
					Poles No.	0	0		
					Small-wood M3	70.95	74.40		
Total	**24**	**613.74**	**613.74**	**613.74**	**Stem Timber M^3**	**164.55**	**178.11**	**34.33**	**20.04**
					Poles No.	**0**	**0**		
					Small-wood M3	**630.00**	**881.40**		

Project Division	No of coupes	Physical						Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield obtained	Target	Achievement
Markhanda	2021-22 = 12	253.60	253.60	253.60	Stem Timber M^3	255.22	208.06	221.65	188.45
					Poles No.	68	137		
					Small-wood M3	307.31	238.80		
	2020-21 = 4	291.94	291.94	291.94	Stem Timber M^3	302.68	203.13	237.64	275.37
					Poles No.	35	138		
					Small-wood M3	404.38	160.20		
Total	**16**	**545.54**	**545.54**	**545.54**	**Stem Timber M^3**	**557.90**	**411.19**	**459.29**	**463.82**
					Poles No.	**103**	**275**		
					Small-wood M3	**711.69**	**399.00**		
Pranhita	6	103.70	103.70	103.70	Stem Timber M^3	55.06	75.23	3.00	2.47
					Poles No.	145	112		
					Small-wood M3	60	50.40		
Grand Total	**84**	**2194.37**	**2194.37**	**2194.37**	**Stem Timber M^3**	**1276.77**	**1099.88**	**536.34**	**507.67**
					Poles No.	**7854**	**6385**		
					Small-wood M3	**2589.35**	**2095.20**		

(Sanjeev Gaur)
Chief General Manager (Planning)

e) Selection Cum Improvement Working Circle

Project Division	No of coupes	Physical					Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield	Actual Yield Obtained	Target	Achievement
Dahanu	2	225.00	90.00	25.00	Stem Timber M^3 92.28	68.55	2.52	15.78
					Poles No. 0	0		
					Small-wood M3 563	1050		

f) Plantation Management Working Circle

Project Division	No of coupes	Physical					Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield	Actual Yield Obtained	Target	Achievement
Pune	4	236.50	236.50	217.70	Stem Timber M^3 675.00	1330.56	225.45	91.80
					Poles No. 0	0		
					Small-wood M3 10800	15493		

g) Rehabilitation of Degraded Forest Working Circle

Project Division	No of coupes	Physical					Expenditure Rs. In lacs	
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield	Actual Yield	Target	Achievement
Yavatmal	2021-22 = 9	310.00	310.00	310.00	Stem Timber M^3 178.32	155.103	15.94	5.68
					Poles No. 2633	1877		
					Small-wood M3 563.232	345.6		
	2020-21 = 9	290.00	290.00	290.00	Stem Timber M^3 123.90	74.51	8.17	4.59
					Poles No. 3226	2907		
					Small-wood M3 412.27	249.60		
Total	**18**	**600.00**	**600.00**	**600.00**	**Stem Timber M^3 302.22**	**229.62**	**24.11**	**10.27**
					Poles No. 5859	**4784**		
					Small-wood M3 975.50	**595.20**		

(Sanjeev Gaur)
Chief General Manager (Planning)

Abstract of Proforma -1

a) Teak Plantation Reboisement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
115	5548.98	2133.11	1959.52	Stem Timber M^3	49589.17	44700.36	2875.48	1721.27
				Poles No.	131747	159809		
				Small-wood M3	92064.02	88790.60		

b) Improvement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
178	8780.59	7526.84	6832.28	Stem Timber M3	3903.97	3823.27	547.39	258.54
				Poles No.	26908	14972		
				Small-wood M3	18975.37	8430.48		

c) Afforestation Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
98	4039.11	3152.09	3152.09	Stem Timber M3	667.33	604.74	200.36	97.50
				Poles No.	4758	3956		
				Small-wood M3	4489.20	3568.80		

d) Improvement Felling in Teak Plantation Reboisement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
84	2194.37	2194.37	2194.37	Stem Timber M3	1276.77	1099.88	536.34	507.67
				Poles No.	7854	6385		
				Small-wood M3	2589.35	2095.20		

e) Selection Cum Improvement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
2	225.00	90.00	25.00	Stem Timber M3	92.28	68.55	2.52	15.78
				Poles No.	0	0		
				Small-wood M3	563.35	1050.00		

f) Plantation Management Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
4	236.50	236.50	217.70	Stem Timber M^3	675.00	1330.56	225.45	91.80
				Poles No.	0	0		
				Small-wood M3	10800.00	15492.50		

g) Rehabilitation of Degraded Forest Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
18	600.00	600.00	600.00	Stem Timber M^3	302.22	229.62	24.11	10.27
				Poles No.	5859	4784		
				Small-wood M3	975.50	595.20		

Grand Total

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
499	**21624.55**	**15932.91**	**14980.96**	**Stem Timber M^3**	**56506.73**	**51856.98**	**4411.65**	**2702.83**
				Poles No.	**177126**	**189906**		
				Small-wood M3	**130456.80**	**120022.78**		

(Sanjeev Gaur)
Chief General Manager (Planning)

Annexure II

PHO

(Post Harvesting Operation)

2. Post Harvesting Operation (PHO) for the area worked out during year 2020-21

A.Working Circle No-1 (Teak Plantation Reboisement Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Bhandara	6	34.50	Protection from fire, felling of badly damage or broken trees and cutting back of malformed advance growth of teak.	34.50	Fire protection and silvicultural works in the complete area were carried out.	921.00	803.00
Gondia	24	145.28		145.28			
Bramhapuri	40	201.80		201.80			
Markhanda	11	313.35		313.35			
Pranhita	8	171.37		171.37			
W.Nashik	5	120.00		120.00			
Total		**986.30**		**986.30**		**921.00**	**803.00**

(Sanjeev Gaur)
Chief General Manager (Planning)

B. Working Circle No-2 (Improvement Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Bhandara	10	160.00	Removal of climbers, removal of high stems, protection for grazing, soil and moisture conservation works and protection from fire	160.00	Climber cutting, closer from grazing and fire protection measures were taken.	6.99	5.88
Gondia	14	779.00		779.00			
Bramhapuri	33	1306.81		1306.81			
Markhanda	10	539.32		539.32			
Pranhita	10	614.09		614.09			
W. Nashik	17	719.49		719.49			
Total		**4118.71**		**4118.71**		**6.99**	**5.88**

(Sanjeev Gaur)
Chief General Manager (Planning)

C. Working Circle No-3 (Afforestation Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Bhandara	2	0.00	The worked area will be protected from fire and closed for grazing for 5 years	0.00	The worked area will be protected from fire and close for grazing	2.45	1.99
Bramhapuri	15	903.00		903.00			
Total		**903.00**		**903.00**		**2.45**	**1.99**

(Sanjeev Gaur)
Chief General Manager (Planning)

D.Working Circle No-4 (Improvement Felling in Teak Plantation Reboisment Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Bramhapuri	27	621.80	After removal of dead, dying, diseased, malformed and hollow trees, to do fire protection and protection from grazing	621.80	Measures from protection from fire and grazing controls were taken	1.12	0.91
Markhanda	7	0.00		0.00			
Pranhita	4	0.00		0.00			
Total		**621.80**		**621.80**		**1.12**	**0.91**

(Sanjeev Gaur)
Chief General Manager (Planning)

E. Working Circle No-5 (Selection cum Improvement Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Thane	4	80.00	The worked area will be protected from fire and closed for grazing for 5 years	80.00	The worked area will be protected from fire and close for grazing	1.22	1.09
Dahanu	11	45.00		45.00			
Total		**125.00**		**125.00**		**1.22**	**1.09**

(Sanjeev Gaur)
Chief General Manager (Planning)

F. Working Circle No-6 (Rehabitation of Degraded Forest Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Dahanu	24	704.00	The worked area will be protected from fire and closed for grazing for 5 years	704.00	The worked area will be protected from fire and close for grazing	0.68	0.51
Total	**24**	**704.00**		**704.00**		**0.68**	**0.51**

(Sanjeev Gaur)
Chief General Manager (Planning)

G. Working Circle No-7 (Planting Stock Improvement Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Markhanda	5	253.96	The worked area will be protected from fire and closed for grazing for 5 years	253.96	The worked area will be protected from fire and close for grazing	0.27	0.24
Total		**253.96**		**253.96**		**0.27**	**0.24**

(Sanjeev Gaur)
Chief General Manager (Planning)

H. Working Circle No-8 (Plantation Management Working Circle)

Division	No. of Coupes/ Compartments	Area Worked (in ha.)	WP Prescription for PHO	PHO done		Budget	
				Area Treated	Works carried out	Allocated during 2021-22 (Rs. in lac)	Expenditure (Rs. in lac)
Pune	11	273.400	Fire protection and silvicultural works in the complete area were carried out.	273.400	Fire protection and silvicultural works in the complete area were carried out.	1.97	0.99
Total	**11**	**273.400**		**273.400**		**1.97**	**0.99**

(Sanjeev Gaur)
Chief General Manager (Planning)

Annexure - III

Plantation Maintenance Work

3 . Maintenance works carried out for all previous PHO during last 5 years in all Divisions, under different Working Circles-

(a) Working Circle No-1 (Teak Plantation Reboisement working Circle)

(i) Name Of Division:- Nagpur

Year of Working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	86.20	86.20	86.20	33.90	33.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	93.00	93.00	93.00	39.05	64.61	86.20	86.20	44.27	44.27	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	100.50	100.50	100.50	48.39	49.95	93.00	93.00	24.26	64.41	86.20	86.20	11.78	27.16	--	--	--	--	--	--	--	--
2020-21	2021 Rains	0	0	0	0	0	100.5	100.5	117.60	49.00	93.00	93.00	17.01	23.93	86.20	86.20	9.61	11.15	--	--	--	--
2021-22	2022 Rains	199.00	199.00	199.00	107.85	98.52	0	0	0	0	100.50	100.50	26.25	25.42	93.00	93.00	10.89	8.72	86.20	86.20	6.04	5.99
Area Proposed for 2022-23																						
2022-23	2023 Rains	142.50	142.50		94.05		199.00		120.44		0	0	0	0	100.50		19.47		93.00		10.98	

(Sanjeev Gaur)
Chief General Manager (Planning)

(ii) Name Of Division:- Bhandara

Year of Working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	80.00	80.00	80.00	27.96	24.26	--	--	--	--	---	---	---	---	---	---	---	---	---	---	---	---
2018-19	2019 Rains	70.65	70.65	70.65	30.32	25.68	80.00	80.00	18.41	15.35	--	--	--	--	---	---	---	---	---	---	---	---
2019-20	2020 Rains	79.50	79.50	79.50	34.41	25.42	70.65	70.65	27.57	17.35	80.00	80.00	10.68	7.92	--	--	--	--	---	---	---	---
2020-21	2021 Rains	34.50	34.50	34.50	41.19	35.83	79.50	79.50	27.57	10.78	70.65	70.65	10.68	7.81	80.00	80.00	5.53	2.22	--	--	--	--
2021-22	2022 Rains	0.00	0.00	0.00	0.00	0.00	34.50	34.50	25.11	14.94	79.50	79.50	7.12	7.32	70.65	70.65	6.81	2.77	80.00	80.00	4.40	0.28
Area Proposed for 2022-23																						
2022-23	2023 Rains	40.49	40.49	--	--	--	0.00		0.00		34.50		14.45		79.50		7.64		70.65		5.27	

(Sanjeev Gaur)
Chief General Manager (Planning)

(iii) Name Of Division:- Gondia

Year of Working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	237.42	237.42	237.42	113.57	165.65	--	--	--	--	---	---	---	---	---	---	---	---	---	---	---	---
2018-19	2019 Rains	207.43	207.43	207.43	99.97	89.98	237.42	237.42	64.63	65.79	--	--	--	--	---	---	---	---	---	---	---	---
2019-20	2020 Rains	90.00	90.00	90.00	103.10	63.55	207.43	207.43	55.76	54.48	237.42	237.42	45.47	41.23	--	--	--	--	---	---	---	---
2020-21	2021 Rains	145.28	145.28	145.28	97.66	87.22	90.00	90.00	23.72	22.33	207.43	207.43	40.99	38.22	237.42	237.42	20.77	6.94	--	--	--	--
2021-22	2022 Rains	176.57	176.57	176.57	102.68	70.43	145.28	145.28	33.78	27.42	90.00	90.00	29.47	26.42	207.43	207.43	22.74	12.86	237.42	237.42	6.23	4.24
Area Proposed for 2022-23																						
2022-23	2023 Rains	254.52	254.52		153.93		176.57		55.34		145.28		19.36		90.00		26.15		207.43		18.51	

(Sanjeev Gaur)
Chief General Manager (Planning)

(iv) Name Of Division:- Yavatmal -

Year of working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	290.00	290.00	290.00	143.25	144.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	0.00	0.00	0.00	0.00	0.00	290.00	290.00	198.0	137.2	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	152.96	152.96	152.96	140.00	92.24	0.00	0.00	0.00	0.00	290.00	290.00	170.00	113.00	--	--	--	--	--	--	--	--
2020-21	2021 Rains	0	0	0	0	0	152.96	152.96	87.44	63.05	0.00	0.00	0.00	0.00	290.00	290.00	98.21	92.55	--	--	--	--
2021-22	2022 Rains	247.63	247.63	247.63	135.05	120.04	0	0	0	0	152.96	152.96	45.06	27.21	0.00	0.00	0.00	0.00	290.00	290.00	54.11	41.57
Area Proposed for 2022-23																						
2022-23	2023 Rains	133.56	133.56		224.53		247.63		51.42		0	0	0	0	152.96		23.11		0.00		0.00	

(Sanjeev Gaur)
Chief General Manager (Planning)

(v) Name Of Division:- Kinwat

Year of working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	30.00	30.00	30.00	22.81	18.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	0.00	0.00	0.00	0.00	0.00	30.00	30.00	9.59	7.60	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	31.00	31.00	31.00	29.38	16.44	0.00	0.00	0.00	0.00	30.00	30.00	5.73	3.97	--	--	--	--		--	--	--
2020-21	2021 Rains	0.00	0.00	0.00	0.00	0.00	31.00	31.00	11.47	9.83	0.00	0.00	0.00	0.00	30.00	30.00	3.43	2.56	--	--	--	--
2021-22	2022 Rains	32.13	32.13	32.13	18.95	12.93	0.00	0.00	0.00	0.00	31.00	31.00	10.22	9.88	0.00	0.00	0.00	0.00	30.00	30.00	2.96	2.33
Area Proposed for 2022-23																						
2022-23	2023 Rains	39.75	39,75		27.28		32.13		11.43		0.00		0.00		31.00		7.99		0.00		0.00	

(Sanjeev Gaur)
Chief General Manager (Planning)

(vi) Name Of Division:- West Chanda

Year of working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	189.59	189.59	189.59	136.0	127.39	--	--	--	--	--	---	--	--	--	--	---	--	--	--	--	---
2018-19	2019 Rains	321.33	321.33	321.33	230.92	212.67	189.59	189.59	61.32	54.68	--	--	--	--	--	---	--	--	--	--	---	--
2019-20	2020 Rains	119.00	119.00	119.00	104.32	90.69	321.33	321.33	101.49	93.29	189.59	189.59	33.95	30.63	--	--	--	--	--	---	--	--
2020-21	2021 Rains	0	0	0	0	0	119.00	119.00	77.02	59.05	321.33	321.33	22.15	17.05	189.59	189.59	16.68	13.24	--	--	--	--
2021-22	2022 Rains	131.01	131.01	131.01	65.21	55.19	0	0	0	0	119.00	119.00	159.92	88.42	321.33	321.33	22.29	18.79	189.59	189.59	21.85	19.07
Area Proposed for 2022-23																						
2022-23	2023 Rains	43.49	43.49		65.21		131.01		43.11		0	0	0	0	119.00		11.99		321.33		21.99	

(Sanjeev Gaur)
Chief General Manager (Planning)

vii) Name Of Division:- Central Chanda

Year of working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	89.00	89.00	89.00	78.06	20.87	--	--	--	--	--	--	--	--	--	---	---	--	---	---	--	---
2018-19	2019 Rains	0.00	0.00	0.00	0.00	0.00	89.00	89.00	65.35	63.67	--	--	--	--	--	--	--	--	--	---	---	--
2019-20	2020 Rains	295.02	295.02	295.02	97.22	88.78	0.00	0.00	0.00	0.00	89.00	89.00	49.30	39.79	--	--	--	--	--	--	--	--
2020-21	2021 Rains	0.00	0.00	0.00	0.00	0.00	295.02	295.02	21.77	15.67	0.00	0.00	0.00	0.00	89.00	89.00	29.52	15.26	--	--	--	--
2021-22	2022 Rains	202.91	202.91	202.91	191.19	142.22	0	0	0	0	295.02	295.02	25.58	23.11	0.00	0.00	0.00	0.00	89.00	89.00	17.50	15.66
Area Proposed for 2022-23																						
2022-23	2023 Rains	20.00	20.00		91.19		202.91		103.31		0	0	0	0	295.02		12.99		0.00		0.00	

(Sanjeev Gaur)
Chief General Manager (Planning)

(viii) Name Of Division:- Bramhapuri

Year of Working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	253.00	253.00	253.00	361.17	208.85	--	--	--	--	--	--	---	--	--	---	--	--	---	--	--	---
2018-19	2019 Rains	340.00	340.00	340.00	229.00	230.68	253.00	253.00	197.16	83.33	--	--	--	--	--	--	---	--	--	---	--	--
2019-20	2020 Rains	197.00	197.00	197.00	167.72	149.71	340.00	340.00	113.96	75.31	253.00	253.00	66.68	60.49	--	--	--	--	--	--	---	--
2020-21	2021 Rains	201.80	201.80	201.80	178.00	159.00	197.00	197.00	54.06	60.61	340.00	340.00	55.13	47.85	253.00	253.00	48.07	42.39	--	--	--	--
2021-22	2022 Rains	215.10	215.10	215.10	175.31	126.69	201.80	201.80	79.74	66.69	197.00	197.00	43.07	60.00	340.00	340.00	45.57	28.02	253.00	253.00	21.42	22.86
Area Proposed for 2022-23																						
2022-23	2023 Rains	325.35	325.35		178.00		215.10		175.31		201.80		79.74		197.00		43.07		340.00		45.57	

(Sanjeev Gaur)
Chief General Manager (Planning)

(ix) Name Of Division:- Markhanda

Year of working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	252.05	252.05	252.05	163.17	145.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	326.28	326.28	326.28	250.52	210.21	252.05	252.05	83.23	66.78	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	297.35	297.35	297.35	166.00	148.00	326.28	326.28	118.87	91.77	252.05	252.05	52.83	38.33	--	--	--	--	--	--	--	--
2020-21	2021 Rains	313.35	313.35	313.35	251.85	218.53	297.35	297.35	101.09	97.04	326.28	326.28	50.37	53.99	252.05	252.05	23.39	22.29	--	--	--	--
2021-22	2022 Rains	437.38	437.38	437.38	366.92	245.43	313.35	313.35	145.44	93.45	297.35	297.35	67.99	39.77	326.28	326.28	40.10	19.55	252.05	252.05	20.48	10.98
Area Proposed for 2022-23																						
2022-23	2023 Rains	470.71	470.71		378.00		437.38		158.00		313.35		57.00		297.35		43.00		326.28		19.18	

(Sanjeev Gaur)
Chief General Manager (Planning)

(x) Name Of Division:- Pranhita

Year	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	152.36	152.36	152.36	6.51	5.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	150.230	150.23	150.23	108.15	89.38	152.36	152.36	50.31	34.57	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	158.90	158.90	158.90	135.00	119.75	150.23	150.23	55.76	56.32	152.36	152.36	31.93	28.63	--	--	--	--	--	--	--	--
2020-21	2021 Rains	171.37	171.37	171.37	108.32	73.71	158.90	158.90	17.25	46.23	150.23	150.23	21.25	22.92	152.36	152.36	20.32	13.51	--	--	--	--
2021-22	2022 Rains	187.80	187.80	187.80	124.94	101.00	171.37	171.37	76.08	45.00	158.90	158.90	37.39	34.00	150.23	150.23	19.38	16.77	152.36	152.36	18.01	11.77
Area Proposed for 2022-23																						
2022-23	2023 Rains	204.100	204.10		190.53		187.80		23.77		171.37		11.99		158.90		19.22		150.23		21.43	

(Sanjeev Gaur)
Chief General Manager (Planning)

(xi) Name Of Division:- West Nashik

Year of working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	150.00	150.00	150.00	134.14	36.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	200.00	200.00	200.00	133.32	58.23	150.00	150.00	39.73	47.96	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	150.00	150.00	150.00	250.46	14.35	200.00	200.00	149.73	66.06	150.00	150.00	23.33	79.17	--	--	--	--	--	--	--	--
2020-21	2021 Rains	175.00	175.00	175.00	135.12	79.12	150.00	150.00	56.07	30.70	200.00	200.00	37.38	22.62	150.00	150.00	14.95	8.20	--	--	--	--
2021-22	2022 Rains	130.00	130.00	130.00	145.49	67.81	175.00	175.00	24.20	22.11	150.00	150.00	25.01	21.99	200.00	200.00	18.20	15.76	150.00	150.00	13.50	9.66
Area Proposed for 2022-23																						
2022-23	2023 Rains	30.00	30.00		181.36		130.00		33.77		175.00		23.11		150.00		11.99		200.00		17.66	

(Sanjeev Gaur)
Chief General Manager (Planning)

(xii) Name Of Division:- Pune

Year of working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	403.00	403.00	403.00	759.63	498.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	200.00	200.00	190.00	198.13	150.00	403.00	403.00	157.40	135.76	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	195.74	195.74	44.00	102.14	38.06	200.00	190.00	15.22	13.16	403.0	403.00	141.07	98.22	--	--	--	--	--	--	--	--
2020-21	2021 Rains	233.00	233.00	233.00	26.88	27.110	195.74	44.00	4.18	6.15	200.0	190.00	19.20	15.16	403.00	403.00	11.25	13.48	--	--	--	--
2021-22	2022 Rains	236.500	236.500	217.700	122.88	101.17	233.00	233.00	15.10	14.77	195.00	195.00	9.18	9.28	200.00	190.00	16.77	14.07	403.00	403.00	20.88	19.79
Area Proposed for 2022-23																						
2022-23	2023 Rains	207.55	207.55		135.87		217.70		99.17		233.00		18.07		195.00		7.97		190.00		17.22	

(Sanjeev Gaur)
Chief General Manager (Planning)

3 . Maintenance works carried out for all previous PHO during last 5 years in all Divisions, under different Working Circles-

(b) Working Circle No-1 (Improvement working Circle)

i) Name Of Division- Nagpur

Year of Working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	75.00	75.00	75.00	27.95	16.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	25.00	25.00	25.00	1.94	8.16	75.00	75.00	27.95	27.95	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	0.00	0.00	0.00	0.00	0	25.00	25.00	4.93	4.69	75.00	75.00	9.36	5.88	--	--	--	--	--	--	--	--
2020-21	2021 Rains	0.00	0.00	0.00	0.00	0	0	0	0	0	25.00	25.00	3.14	3.75	75.00	75.00	8.36	5.62	--	--	--	--
2021-22	2022 Rains	50.00	50.00	15.00	18.21	7.42	0.00	--	0.00	--	0.00	--	--	--	25.00	25.00	2.93	1.47	75.00	75.00	5.26	4.22
Area Proposed for 2022-23																						
2022-23.	2023 Rains	52.41	52.41		33.30		15.00		9.08		--	--	--	--	--	--	--	--	25.00		2.95	

(Sanjeev Gaur)
Chief General Manager (Planning)

3 . Maintenance works carried out for all previous PHO during last 5 years in all Divisions, under different Working Circles-

(c) Working Circle No-1 (Afforestation working Circle)

i) Name Of Division -Nagpur

Year of Working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	122.00	122.00	122.00	12.50	12.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	153.00	153.00	153.00	12.96	12.96	122.00	122.00	30.36	30.36	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	50.00	50.00	50.00	37.83	37.80	153.00	153.00	61.50	61.71	122.00	122.00	15.22	26.39	--	--	--	--	--	--	--	--
2020-21	2021 Rains	0.00	0.00	0.00	0.00	0.00	50.00	50.00	62.89	23.17	153.00	153.00	19.28	38.94	122.00	122.00	13.60	12.78	--	--	--	--
2021-22	2022 Rains	50.00	50.00	15.00	16.56	10.47	0.00	--	--	--	50.00	50.00	6.61	5.99	153.00	153.00	17.91	15.66	122.00	122.00	8.55	7.99
Area Proposed for 2022-23																						
2022-23	2023 Rains	169.73	169.73		107.86		15.00		9.08		--	--	--	--	50.00		9.69		153.00		18.06	

(Sanjeev Gaur)
Chief General Manager (Planning)

3 . Maintenance works carried out for all previous PHO during last 5 years in all Divisions, under different Working Circles-

(d) Name of Working Circle-RDF

(i) Name Of Division:- Thane

Year of Working	Plantation Year	Total area worked out 2 years back & was to be treated this year	Area under Maintenance (ANR/AR)																			
			I st Year				II nd Year				III rd Year				IV th Year				V th Year			
			Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)		Area (in ha.)		Budget (Rs. in lac)	
			T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A
2017-18	2018 Rains	210.00	210.00	210.00	62.17	49.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2018-19	2019 Rains	150.00	150.00	150.00	68.93	55.14	210.00	210.00	67.12	34.80	--	--	--	--	--	--	--	--	--	--	--	--
2019-20	2020 Rains	110.00	110.00	110.00	47.39	26.42	150.00	150.00	45.20	40.55	210.00	210.00	37.12	37.80	--	--	--	--	--	--	--	--
2020-21	2021 Rains	136.30	136.30	136.30	40.79	42.33	110.00	110.00	20.81	18.17	150.00	150.00	26.51	24.33	210.00	210.00	32.40	28.90	--	--	--	--
2021-22	2022 Rains	175.00	175.00	175.00	75.39	69.03	136.30	136.30	14.21	13.67	110.00	110.00	9.81	9.88	150.00	150.00	13.15	12.13	210.00	210.00	15.26	14.07
Area Proposed for 2022-23																						
2022-23	2023 Rains	130.00	130.00		65.79		175.00		19.33		136.30		11.17		110.00		12.43		150.00		11.67	

(Sanjeev Gaur)
Chief General Manager (Planning)

Annexure - IV

APO

(Annual Plan Operation)

In View of 1,2 and 3 above and also as per prescribed Working Plan provisions the proposal for 2022-23

a) Teak Plantation and Reboisement Working Circle

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Nagpur	6	185.00	142.50	Stem Timber M^3	2482.05	286.86
				Poles No.	9964	
				Small-wood M3	17990.40	
Bhandara	2	211.00	40.49	Stem Timber M^3	786.04	77.74
				Poles No.	3109	
				Small-wood M3	2335.17	
Gondia	2022-23 = 14	625.00	243.22	Stem Timber M^3	5534.57	483.86
				Poles No.	32754	
				Small-wood M3	12496.43	
	2019-20=1	25.00	11.30	Stem Timber M^3	463.71	29.37
				Poles No.	1248	
				Small-wood M3	479.39	
Total	**15**	**650.00**	**254.52**	**Stem Timber M^3**	**5998.28**	**513.23**
				Poles No.	**34002.00**	
				Small-wood M3	**12975.81**	
Yavatmal	6	171.04	133.56	Stem Timber M^3	3566.23	155.75
				Poles No.	45027	
				Small-wood M3	5835.32	
Kinwat	3	166.00	39.75	Stem Timber M^3	992.85	241.89
				Poles No.	13533	
				Small-wood M3	3121.89	

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
W.Chanda	2	43.49	43.49	Stem Timber M^3	225.64	43.00
				Poles No.	2190	
				Small-wood M3	948.41	
Central Chanda	1	280.00	20.00	Stem Timber M^3	207.14	34.69
				Poles No.	285	
				Small-wood M3	396.44	
Bramhapuri	13	485.00	325.35	Stem Timber M^3	4324.07	431.74
				Poles No.	54	
				Small-wood M3	10193.88	
Markhanda	10	891.23	470.71	Stem Timber M^3	19771.80	819.58
				Poles No.	5975	
				Small-wood M3	35023.10	
Pranhita	6	266.99	204.10	Stem Timber M^3	5653.55	190.53
				Poles No.	13270	
				Small-wood M3	6393.20	
W.Nashik	5	210.00	30.00	Stem Timber M^3	143.20	13.08
				Poles No.	276	
				Small-wood M3	459.00	
Grand Total	**69**	**3559.75**	**1704.47**	**Stem Timber M^3**	**44150.85**	**2808.09**
				Poles No.	**127685**	
				Small-wood M3	**95672.61**	

(Sanjeev Gaur)
Chief General Manager (Planning)

b) Improvement Working Circle

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Nagpur	8	524.18	514.03	Stem Timber M^3	114.70	43.86
				Poles No.	1656	
				Small-wood M3	2863.20	
Bhandara	1	50.00	50.00	Stem Timber M^3	19.56	14.50
				Poles No.	148	
				Small-wood M3	469.23	
Gondia	9	784.36	472.00	Stem Timber M^3	632.18	73.67
				Poles No.	1063	
				Small-wood M3	968.09	
Kinwat	10	690.95	653.19	Stem Timber M^3	364.49	116.30
				Poles No.	3313	
				Small-wood M3	1184.06	
West Chanda	21	532.20	532.20	Stem Timber M^3	227.832	39.48
				Poles No.	413	
				Small-wood M3	841.58	
Central Chanda	2	1226.92	74.72	Stem Timber M^3	4.40	1.46
				Poles No.	0	
				Small-wood M3	65.74	
Bramhapuri	12	541.10	505.11	Stem Timber M^3	268.80	30.18
				Poles No.	0	
				Small-wood M3	959.48	

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Markhanda	13	767.82	767.82	Stem Timber M^3	642.55	74.00
				Poles No.	94	
				Small-wood M3	602.74	
Pranhita	7	503.73	503.73	Stem Timber M^3	76.75	6.91
				Poles No.	72	
				Small-wood M3	115.20	
West Nashik	17	1158.24	809.20	Stem Timber M^3	50.00	7.87
				Poles No.	6	
				Small-wood M3	143.20	
Grand Total	**100**	**6779.50**	**4882.00**	**Stem Timber M^3**	**2401.25**	**408.23**
				Poles No.	**6765**	
				Small-wood M3	**8212.52**	

(Sanjeev Gaur)
Chief General Manager (Planning)

c) Afforestation Working Circle

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Nagpur	11	565.76	485.76	Stem Timber M^3	29.56	19.71
				Poles No.	184	
				Small-wood M3	1075.20	
Bhandara	3	190.00	140.00	Stem Timber M^3	119.80	38.05
				Poles No.	2166	
				Small-wood M3	1469.29	
Yavatmal	10	309.79	154.79	Stem Timber M^3	17.88	1.09
				Poles No.	331	
				Small-wood M3	120.84	
Kinwat	3	140.00	140.00	Stem Timber M^3	59.17	19.01
				Poles No.	457	
				Small-wood M3	174.33	
W.Chanda	11	208.94	208.94	Stem Timber M^3	120.08	20.31
				Poles No.	7	
				Small-wood M3	404.36	
C.Chanda	2	385.00	55.00	Stem Timber M^3	3.78	1.38
				Poles No.	0	
				Small-wood M3	65.84	
Bramhapuri	15	879.86	879.86	Stem Timber M^3	229.70	40.80
				Poles No.	0	
				Small-wood M3	1463.72	
Grand Total	**55**	**2679.35**	**2064.35**	**Stem Timber M^3**	**579.96**	**140.35**
				Poles No.	**3145**	
				Small-wood M3	**4773.57**	

(Sanjeev Gaur)
Chief General Manager (Planning)

d) Improvement Felling in Teak Plantation Reboisement Working Circle

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Yavatmal	15	322.48	322.48	Stem Timber M^3	116.70	6.15
				Poles No.	2514	
				Small-wood M3	408.06	
Kinwat	4	100.00	100.00	Stem Timber M^3	44.04	14.25
				Poles No.	497	
				Small-wood M3	158.83	
Brmhapuri	11	159.65	159.65	Stem Timber M^3	201.75	20.20
				Poles No.	0	
				Small-wood M3	416.43	
Markhanda	9	249.65	249.65	Stem Timber M^3	382.41	434.68
				Poles No.	0	
				Small-wood M3	502.69	
Pranhita	6	62.89	62.89	Stem Timber M^3	30.28	2.39
				Poles No.	95	
				Small-wood M3	44.40	
Grand Total	**45**	**894.67**	**894.67**	**Stem Timber M^3**	**775.18**	**477.67**
				Poles No.	**3106**	
				Small-wood M3	**1530.40**	

(Sanjeev Gaur)
Chief General Manager (Planning)

e) Selection Cum Improvement Working Circle

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Thane	12	105.00	40.00	Stem Timber M^3	150.00	31.79
				Poles No.	0	
				Small-wood M3	1400.00	
Grand Total	**12**	**105.00**	**40.00**	**Stem Timber M^3**	**150.00**	**31.79**
				Poles No.	**0**	
				Small-wood M3	**1400.00**	

f) Plantation Management Working Circle

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Pune	4	266.95	207.55	Stem Timber M^3	1500.00	290.00
				Poles No.	0	
				Small-wood M3	15000	

g) Rehabilitation of Degraded Forest Working Circle

Project Division	No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
		Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
Yavatmal	9	288.92	206.50	Stem Timber M^3	76.13	4.62
				Poles No.	2767	
				Small-wood M3	321.01	

(Sanjeev Gaur)
Chief General Manager (Planning)

Abstract of Proforma -4

a) Teak Plantation Reboisement Working Circle

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
69	3559.75	1704.47	Stem Timber M3	44150.85	2808.09
			Poles No.	127685	
			Small-wood M3	95672.61	

b) Improvement Working Circle

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
100	6779.50	4882.00	Stem Timber M3	2401.25	408.23
			Poles No.	6765	
			Small-wood M3	8212.52	

c) Afforestation Working Circle

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
55	2679.35	2064.35	Stem Timber M3	579.96	140.35
			Poles No.	3145	
			Small-wood M3	4773.57	

d) Improvement Felling in Teak Plantation Reboisement Working Circle

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
45	894.67	894.67	Stem Timber M3	775.18	477.67
			Poles No.	3106	
			Small-wood M3	1530.40	

e) Selection Cum Improvement Working Circle

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
12	105.00	40.00	Stem Timber M3	150.00	31.79
			Poles No.	0	
			Small-wood M3	1400.00	

f) Plantation Management Working Circle

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
4	266.95	207.55	Stem Timber M^3	1500.00	290.00
			Poles No.	0	
			Small-wood M3	15000	

g) Rehabilitation of Degraded Forest Working Circle

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
9	288.92	206.50	Stem Timber M^3	76.13	4.62
			Poles No.	2767	
			Small-wood M3	321.01	

Grand Total

No of coupes	Physical		Expected Yield as per marking		Financial Allocation (Rs. in lac)
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)			
294	**14574.14**	**9999.53**	**Stem Timber M^3**	**49633.36**	**4160.75**
			Poles No.	**143468**	
			Small-wood M3	**126910.11**	

(Sanjeev Gaur)
Chief General Manager (Planning)

Annexure - V

ATR - 2021-22

Showing Statement of Small wood in nos.

Abstract of Proforma -1 (Statement showing Small wood in nos.)

a) Teak Plantation Reboisement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
115	5548.98	2133.11	1959.52	Stem Timber M^3	49589.17	44700.36	2875.48	1721.27
				Poles Nos.	131747	159809.00		
				Small-wood Nos	38360	36973		

b) Improvement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
178	8779.60	7526.82	6832.28	Stem Timber M3	3903.97	3823.269	547.39	258.54
				Poles Nos.	26908	14973		
				Small-wood Nos	7906	3513		

c) Afforestation Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
98	4039.11	3152.09	3152.09	Stem Timber M3	667.33	604.74	200.36	97.50
				Poles Nos.	4758	3956.00		
				Small-wood Nos	1871	1487		

d) Improvement Felling in Teak Plantation Reboisement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
84	2194.37	2194.37	2194.37	Stem Timber M3	1276.77	1099.881	536.34	507.67
				Poles Nos.	7854	6385.00		
				Small-wood Nos	1079	873		

e) Selection Cum Improvement Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
2	225.00	90.00	25.00	Stem Timber M3	92.275	68.55	2.52	15.78
				Poles Nos.	0	0		
				Small-wood Nos	235	438		

f) Plantation Management Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
4	236.50	236.50	217.70	Stem Timber M^3	675.00	1330.56	225.45	91.80
				Poles Nos.	0	0		
				Small-wood Nos	4500	6455		

g) Rehabilitation of Degraded Forest Working Circle

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
18	600.00	600.00	600.00	Stem Timber M^3	302.22	229.62	24.11	10.27
				Poles Nos.	5859	4784		
				Small-wood Nos	406	248		

Grand Total

No of coupes	Physical						Expenditure Rs. In lacs	
	Total Area as per Managaement Plan (In ha)	Area Fit for working (In ha)	Area worked (in ha.)	Anticipated Yield		Actual Yield	Target	Achievement
499	**21623.56**	**15932.90**	**14980.96**	**Stem Timber M^3**	**56506.73**	**51856.98**	**4411.65**	**2702.83**
				Poles Nos.	**177126**	**189907**		
				Small-wood Nos	**54357**	**49986**		

(Sanjeev Gaur)
Chief General Manager (Planning)

FOREST DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED
(Govt. of Maharashtra Enterprise)
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No:-Desk-PLN/F&R Proposal/CR-14/21-22/1407 Dated 5th August, 2021

CIRCULAR

Subject--Estimation of yield out of the standing crop.

The Annual Plan of operations for the prospecting year requires the estimation of anticipated yield based on objective criteria. However, during recent interactions with General Manager/Regional Managers and Divisional Managers, it has been observed that different criteria and methodologies are being used in this regard in different Regions and Divisions. This not only results in subjectivity in estimation but also leads to practical difficulties in execution.

2.0 In order to eliminate the element of individual bias and to ensure objectivity and uniformity in that regard, attention of all concerned is invited to the Site-Quality wise Local Volume Table in respect of Teak, which specifies Site-Quality wise and girth-class wise apportionment of expected yield between the stem-timber (u.b.) and small-wood(o.b.), based on quarter-girth measurements. A copy of the said Local Volume Table is enclosed herewith for ready reference. It is therefore directed that the aforesaid Local Volume Table shall be used for the purpose of estimation of the yield.

3.0 Since the aforesaid Local Volume Table is presently available in respect of teak only and are yet to be devised for the other species, depending on the composition of crop, i.e. the extent of non-teak species present in different proportion in different localities, other multiple local factors and the form of individual trees themselves (malformed, crooked, dead, deceased, dying etc.), the estimation so arrived at is naturally bound to differ from the actual yield, but it shall definitely eliminate the element of subjectivity altogether.

4.0 The yield-estimation therefore should be based on volume contents shown in the aforesaid Local Volume Table based on following factors---

4.1 Except for the species mentioned in para 4.2 below, the yield-estimation for all girth-classes shall be based on the aforesaid Local Volume Table and shall be classified as stem-wood and small-wood.

4.2 Certain species viz. *garari, lendia, dhaman, ghogar, hivar, dhoban, wuranga, apta, palas*, etc. inherently belong to small-wood category (firewood), irrespective of the girth-class they belong to. Therefore, for the purpose of yield-estimation of such species, the entire volume shall be considered as small-wood, irrespective of the girth-class.

Provided that in case of *garari* and *lendia*, in addition to the small-wood as mentioned above, poles as prescribed in para 4.3 below shall also be considered.

4.3 For the purpose of estimation of number of poles, 1 to 2 poles per tree may be considered across all girth-classes for teak and its associates (*saja, bija, haldu, kalam and tiwas*) as well as other commercially superior species.

Encl: As above

Sanjeev Gaur
Managing Director

To
General Manager, Nagpur Region.
Regional Managers, Nashik / Chandrapur Region
Divisional Managers [All]
Assistant Managers [All]
Range Forest Officers [All]

TEAK SITE QUALITY-WISE LOCAL VOLUME TABLE : QUARTER GIRTH MEASUREMENTS

(Tectona grandis)

Girth Classes	Mid point	Stem Timber (u.b.) - Teak Site Quality				Small wood (o.b.) - Teak Site Quality				Total Volume - Teak Site Quality				Girth Classes
		IV & III / IV	III	II & II / III	I & I / II	IV & III / IV	III	II & II / III	I & I / II	IV & III / IV	III	II & II / III	I & I / II	
0/10	5	0	0	0	0	0	0	0	0	0	0	0	0	0/10
0/15	7.5	0	0	0	0	0	0	0	0	0	0	0	0	0/15
11/15	12.5	0	0	0	0	0	0	0	0	0	0	0	0	11/15
16/25	20	0	0	0	0	0.003	0.006	0.008	0.01	0.003	0.006	0.008	0.01	16/25
16/30	22.5	0.004	0.004	0.004	0.004	0.007	0.01	0.012	0.014	0.011	0.014	0.016	0.018	16/30
26/35	30	0.015	0.015	0.015	0.015	0.018	0.02	0.025	0.025	0.033	0.035	0.04	0.04	26/35
31/45	37.5	0.026	0.026	0.026	0.026	0.027	0.031	0.036	0.04	0.053	0.057	0.062	0.066	31/45
36/45	40	0.03	0.03	0.03	0.03	0.03	0.035	0.04	0.045	0.06	0.065	0.07	0.075	36/45
46/60	52.5	0.045	0.057	0.071	0.071	0.095	0.093	0.084	0.084	0.14	0.15	0.155	0.155	46/60
61/75	67.5	0.07	0.1	0.13	0.157	0.16	0.14	0.12	0.103	0.23	0.24	0.25	0.26	61/75
76/90	82.5	0.12	0.17	0.23	0.258	0.235	0.195	0.14	0.122	0.355	0.365	0.37	0.38	76/90
91/105	97.5	0.19	0.295	0.35	0.425	0.365	0.27	0.22	0.155	0.555	0.565	0.57	0.58	91/105
106/120	112.5	0.26	0.42	0.5	0.6	0.56	0.41	0.335	0.24	0.82	0.83	0.835	0.84	106/120
121/135	127.5	0.36	0.55	0.68	0.8	0.67	0.5	0.38	0.3	1.03	1.05	1.06	1.1	121/135
136/151	142.5	0.485	0.75	0.89	1.05	0.775	0.55	0.46	0.36	1.26	1.3	1.35	1.41	136/151
151/165	157.5	0.635	0.95	1.15	1.365	0.825	0.6	0.5	0.405	1.46	1.55	1.65	1.77	151/165
166/180	172.5	0.77	1.17	1.42	1.7	0.87	0.68	0.6	0.45	1.64	1.85	2.02	2.15	166/180
181/195	187.5			1.73	2.055			0.75	0.595			2.48	2.65	181/195
196/210	202.5			2.01	2.39			0.99	0.83			3	3.22	196/210
211/225	217.5			2.32	2.75			1.18	1.05			3.5	3.8	211/225
226/240	232.5				3.08				1.42				4.5	226/240
241/255	247.5				3.33				1.97				5.3	241/255
255/270	262.5				3.52				2.68				6.2	255/270

Note: For the purpose of this table, timber includes poles having mid girth upto 45 cms. over bark, volume being taken exclusive of bark.