



**GOVERNMENT OF MAHARASHTRA**

**WORKING PLAN  
for  
EAST MELGHAT FOREST DIVISION  
Amravati Circle**

**For the period  
2006-07 to 2015-16**

**Revised and Extended for 2016-17 to 2025-26**

**VOLUME – II  
(APPENDICES)**



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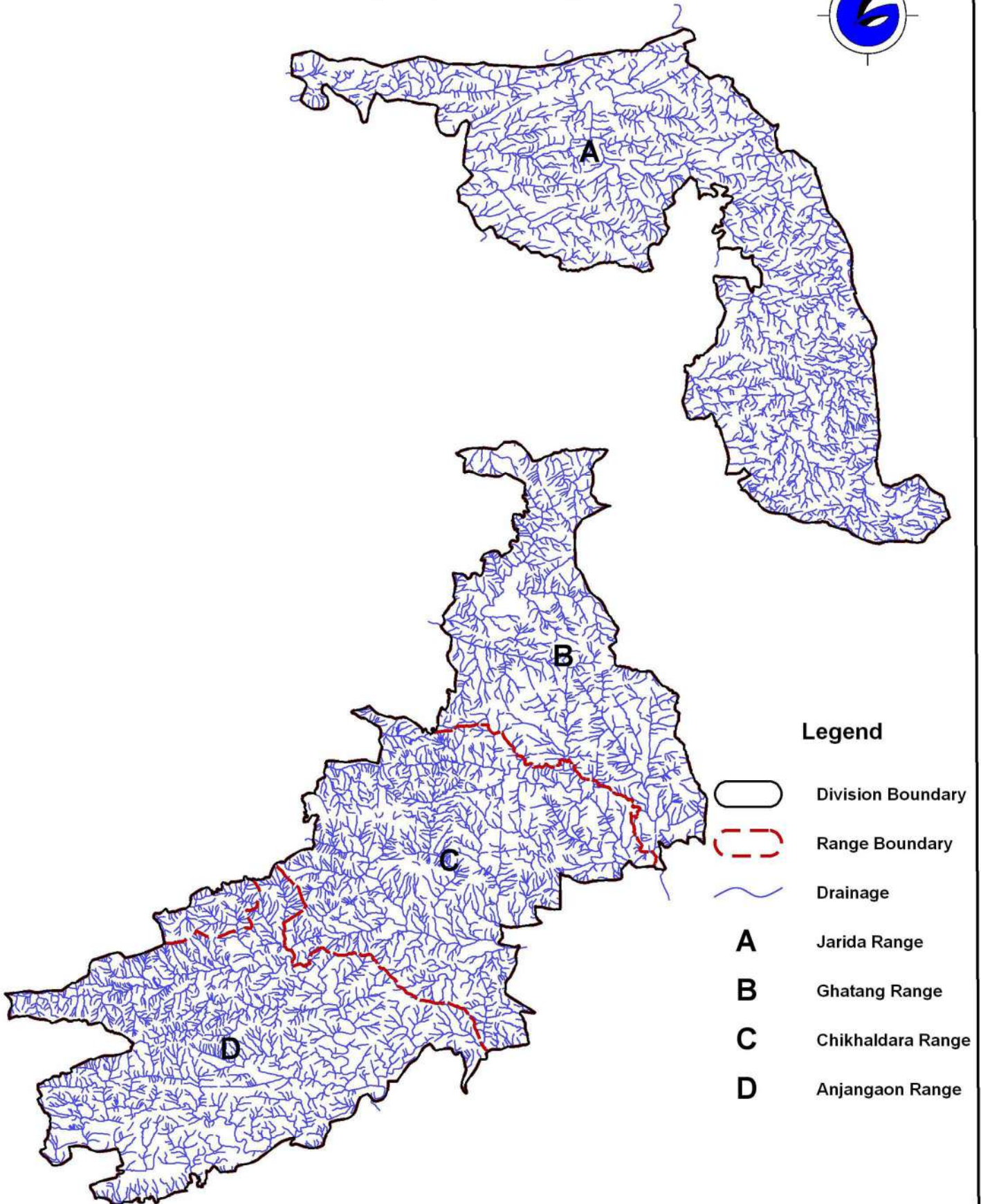
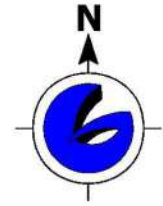
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Appendix No. I  
Drainage Map of East Melghat Division



**Legend**

-  Division Boundary
-  Range Boundary
-  Drainage
- A** Jarida Range
- B** Ghatang Range
- C** Chikhaldara Range
- D** Anjangaon Range

## Appendix No. II

### List Of Notifications Of Reserved Forest and Protected Forest

Year	Notification Nos.	Area in Hectare of Reserve Forest	Remarks		
1902	Nos.52 and 53, dated 13 <sup>th</sup> March 1902	5852.34	<i>Chikhaldara Reserve</i>		
	No.245, dated 29 <sup>th</sup> September 1902				
1911	G.I.F.D.Not. No.2197-I-B, dated 13 October 1911				
1928	No.283-74-XV, dated 29 <sup>th</sup> February 1928				
	No. 865-828-XI, dated August 1939				
1958	No.FLD-1258-24563, dated 5 <sup>th</sup> December				
1911	G.I.F.D.Not. No.2197-I-B, dated 13 October 1911			3786.19	<i>Kohana Reserve</i>
1886	No.3, dated 4 <sup>th</sup> January 1886			2641.18	<i>Gugamal Reserve</i>
	No.185, dated 16 <sup>th</sup> August				
1903	No.211,dated 1 <sup>st</sup> august 1903				
1911	G.I.F.D.Not. No.2197-I-B, dated 13 October 1911				
1911	No.615,dated 6 <sup>th</sup> July 1911	9025.01	<i>Khirpani Reserve</i>		
	G.I.F.D.Not. No.2197-I-B, dated 13 October 1911				
	G.I.F.D.No.2197-I-B,dated 13 October 1911	958.30	<i>Chinchona 'C' Class of Khirpani Reserve</i>		
1911	G.I.F.D.Not. No.2197-I-B, dated 13 October 1911	5027.44	<i>Motha Reserve</i>		
1911	G.I.F.D.Not. No.2197-I-B, dated 13 October 1911	25940.10	<i>Bairagarh Reserve</i>		
1990	R.B.-I-A-W-S-441-90, dated 05/03/1990	2835.97	<i>Old Ex,Jahagir Forest Land now included in Reserve Forest</i>		
2005	No.FALD-31-2005 NO.9-F-3, Dated 28/02/2005	26.08	<i>Protected Forest</i>		
2013	No.Restt-WS-105-13, Dated 21/01/2013.	9.46	<i>Reserved Forest</i>		
<b>Total</b>		<b>56097.06</b>			



### Appendix No. III

#### List of Toposheets in East Melghat Division

<b>Sr. No.</b>	<b>Scale: - 2"= 1 Mile</b>	<b>Sr. No.</b>	<b>Scale:- 1: 50,000</b>
1	85 NE	1	55 G/3
2	85 SE	2	55 G/4
3	86 NE	3	55 G/5
4	86 SE	4	55 G/6
5	86 SW	5	55 G/7
6	87 NE	6	55 G/8
7	87 NW	7	55 G/9
8	109 NW and SW	-	-
9	110 NW and SW	-	-

### List Of Toposheets Reserve And Range Wise

Sr. No.	Name of Reseve	Name of Range	Toposheets No.	Compartment Included
1	Bairagarh	Ghatang	85 SE	76p,77p,82p,84p,194p,195p,196p,197p,198p,199p,200to205,207, 208, 298,299,
2	Bairagarh	Jarida	85 NE	376p, 369p, 370p, 371p, 380p, 381,382,383p, 387p, 388. To397, 394p, 395p, 396p, 401p, 404p, 405 406 407 to417, 421, to456.
3	Motha	Chikhaldara	86 NE	3p,4p, 5p, 9p, 10,7p, 9p, 10to15. 16p, 18p, 19p, 20 ,21 22 23,Kulangana Ex-Jah
	Kohana	Chikhaldara	86 NE	51,52to62,63p, 64p, 66p, 70p, 71p, 72p, 73p,
	Bairagarh	Ghatang	86 NE	194p, 195p, 199p,
	Gugamal	Chikhaldara	86 NE	949to955p,
4	Motha	Chikhaldara	86 SE	4p, 5p, 6p, 16p, 17p, 18p, 19p, 23,
	Chikhaldara	Chikhaldara	86 SE	24p, 26p, 27p, 28p, 31p, 32p, 33p,
5	Khirpani	Anjangaon	86 SW	1033p, 1034p, to1040, 1044to1046p, 1050,
	Gugamal	Chikhaldara	86 SW	790to793
6	Khirpani	Anjangaon	87 NE	1045p, 1062p, 1063p, to1066, 1067p, 1068p, 1070, Chinchona C class
7	Bairagarh	Jarida	109 NW/SW	337, 339, 340, to366, 367, 368, 369, 371, 372, to379380, 381, 384, to386, 387p, 394, 395, 396p, 397, 401, 404, 406,
8	Motha	Ghatang	110 NW/ SW	1,2,3p,4p, 9
	Kohana	Ghatang	110 NW/ SW	63p, 65, 69, 70p, 71p, 72p,
9	Khirpani	Anjangaon	87 NW	1045p,

**Scale 1:50,000**

<b>Sr. No.</b>	<b>Name of Reseve</b>	<b>Name of Range</b>	<b>Toposheets No.</b>	<b>Compartment Included</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Gugamal	Chihkaldara	55 G / 3	790p, 791,p, 792p, 793p,
	Gugamal	Chihkaldara	55 G / 3	949, 950, 951, 952, 953, 954, 955,
	Khirpani	Anjangoan	55 G / 3	1033p, 1034,p to1042, 1043, 1044, 1045, 1046to1051,1052p, 1053p, 1056p. 1057, 1058, 1059p, 1060p, 1061p, 1062p, 1063p, 1064p, 1065p, 1066p, 1067p,
2	Khirpani	Anjangoan	55 G /4	1033p, 1044p, 1045p, 1046p, 1065p, 1066p, 1067p,
3	Bairagarh	Jarida	55 G/5	377p, 378p, 384, 385p, 386, 387, 388, p389p, 439p, 440p, 441p, 447p, 448p, 449p,
4	Bairagarh	Ghatang	55 G /6	194p, 195p, 196p, to205p, 207, 208, 298, 299,
	Bairagarh	Jarida	55 G /6	337p, 361p, 362p, 363p, 364, p365p, to374, 375, p376p, 377p, 387p, 379p, to381, 382p, 384p,
	Bairagarh	Jarida	55 G/6	455p, 456p,
5	Motha	Chihkaldara	55 G/7	1to, 23
	Chikhaldara	Chihkaldara	55 G/7	24, to33, 38to40, 43to51,
	Kohana	Chihkaldara	55 G/7	52to73
	Bairagarh	Jarida	55 G/7	74to75,76p, 77p, 78p, to81, 82p, 83p, 84, 85p, 86p, to90, 194p, 195 p,
	Gugamal	Chihkaldara	55 G/7	790, p791,
	Khirpani	Anjangoan	55 G/7	11052p, 11053p. 1059p, 1060p, 1062p, 1069, 1068p, 1070p,
6	Khirpani	Anjangoan	55 G/8	1065p, 1067p, 1070p,
7	Bairagarh	Jarida	55 G/10	337p,339p, to354, 355, 356p, to360, 361p, 362p, 363, 364p, 365p, 375, 376, 377p, 382p, 383p,



Appendix No. IV

**"The Forgotten Links In The Legal History Of The Melghat Forests"**

A Note By Shri.S.W.H.Naqvi, IFS

THE FORGOTTEN LINKS  
IN THE  
LEGAL HISTORY  
OF THE  
**MELGHAT FORESTS**



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OCTOBER, THE FIRST, 1985

The Forests of Melghats have seen more than a century of forest conservancy and management and during all these times, these often passed from one legal status to other. The forests were first brought under conservancy by an executive order of the local Revenue officer. These measures were later superseded by a more definite administrative order by the Resident of the Hyderabad Residency and a forest reserve was constituted in the Melghats. Later, a Forest Regulation was made applicable to these forests and forests after due demarcation were declared as 'Demarcated State Forests.' From this status to their present one, these forests passed through one more legal process under the provisions of the Berar Forest Law 1836. During all these years lands under conservancy forests were often subjected to modifications of areas. Unfortunately with the lapse of time and after the process of reservation of forests got completed long back as per the provisions of present Forest Law, the importance of preservation of the knowledge of these past developments was lost and as a result the records got scattered and the very link which brought the Melghat forests to their present status was forgotten. The Form no. 1 was in a very shabby condition on way to permanent loss and was not corrected after the working plan officer, Mr. A. H. Stein, in 1935. Even in this Form no. 1, the foresters of past failed to incorporate a very vital provision which made the forests of Melghat 'reserved' as we understand now. If today one refers to Form no. 1, the legal status of Melghat forests at the most could be established as that of 'State Forests' under the Berar Forest Law-1886 which was repealed long back. It is impossible to establish from records available in the Form no. 1 whether Melghat forests were constituted "reserved Forests". Similarly the working plans also failed to give an account as to whether these forests are 'reserved-Forests' and if yes then how these were so constituted. It would be needless to stress that under such conditions, the cases of violation of the provisions of the Indian Forest Act were bound to fail in the court of Law because when challenged the forest authorities failed to show any documentary evidence as accepted by the court in support of reservation of the Melghat Forests. It was this problem, that mainly forced me to endeavour for the rediscovery of the scattered documents of the past and construct a chain which would link the present with 1850s when the process of conservancy started in the Melghats. In another effort, the works to preserve and incorporate this forgotten link in the Form No. 1 are being taken up. The entries are being brought up to date in this form.

## THE FOREST CONSERVANCY IN INDIA

At this stage it will be of use if a brief account of the history of forest conservancy in India is provided. This information will certainly enrich understanding that would help to better appreciation of the legal history of the Melghats. In 1840s and 50s, the British in India took notice of the importance of forests as a source of supply of timber and other forest produce for times to come. They were also alarmed by the continuous encroachments upon and deterioration of the forests. By tradition in India, waste and wood lands in respect of which there were no title with any person or persons, were considered to be property of the Governing Power. Normally left uncared for, these lands were frequented by people to graze their cattle, remove forest produce and practise shifting cultivation. Some of these acts were permitted as a result of grant of certain rights at some points of time in past. The British when they realised that forests were suffering such damages which if continued would finally wipe out the forests, started taking up some measures of very preliminary nature to safe-guard their interest. These initial steps were mainly taken up in 1840s & 50s by the Revenue Officers in charge of the forest tracts. Despite these steps, it was found that forests continued to suffer mainly due to lack of proper demarcation of such lands and confusion regarding the rights of the people in these forests. Further, the purpose for which these measures were taken up were also not clear nor legal handling of the violations of the measures adopted was provided for. Later on, the British got the feeling that unless and until the concept of establishing "forest estate" in wood lands, which till then for all practical purposes were considered as 'no man's land' by the local people, was incorporated in their policy towards forests, much could not be achieved.

With this purpose of establishing 'the Government Forest Estate' in wood lands, jungles etc. hitherto not cared for and frequented by people for various purposes but traditionally considered as Government lands in wake of absence of rights of any persons that the Government of India passed the Indian Forest Act 1865. This forest law empowered several Local Governments to declare certain areas 'State Forests' without in any way interfering with the rights of the people. The 'State Forests' were to be demarcated as nearly as possible and measures of forest conservancy and management were to be adopted in them. The claims of rights in these forests were however, on such an excessive scale that real forest conservancy became practically impossible. Moreover, they produced a great deal

of friction between civil and forest officers. As a result, a new law, the Indian forest Act 1878 was passed. This Act had provisions for Reserved forests with the purpose of establishing State owned 'permanent Forest estates' with proper demarcation and under the exclusive control of the forest officers. These provisions were incorporated in this Act for the exclusive purpose of introducing measures of forest conservancy and management to ensure perpetual continuation of forests after due settlements of all claims of rights of any persons and village communities in them. These forests were reserved against alienation and alternative use of these lands other than the forestry use. Since constitution of 'reserved forests' accorded them special status therefore special provisions to safeguard their interests were incorporated in this law. After 1878, a number of other legislations were introduced and made applicable to forest lands. To consolidate the Indian forest Act 1878 and further incorporate all other laws applicable to forest lands in various parts of India in a single Act, it was in 1927 that a new Forest Law, now known as the Indian forest Act 1927, was passed. This law in its amended form is still applicable today.

### THE LEGAL HISTORY OF MELGHAT FORESTS

In 1853 the region of Berar, then a part of the Nizam's State was assigned to the British for administration. Along with this assignment, came the Melghats into the British hand, The Governor General in the Council became the administrative authority for the region who was also empowered to make regulations, rules and laws applicable to Berar Region. The British Resident at Hyderabad started looking after the administration of Berar on behalf of the Governor General of India. The tract was then inhabited mainly by Korkus and partly by Gawlies. The Korkus were professional woodcutters. They used to cut trees and bamboos and used to sell these in Berar plains down the hills of the Melghats. Korkus were not regular cultivators and they practised occasionally shifting cultivation. They used to stay in temporary hamlets. Gawlies on the other hand were professional graziers. The Melghats were wood lands and pastures which by tradition were considered as the property of the Governing Power. There was no concept of title over a piece of land among Korkus & Gawlies. With the exceptions of few recorded rights of Melghat Rajas who used to own some land and tax the timber and other forest produce when being carried out of the Melghats, no rights of any kind existed in the Melghats. However as the tract

was not cared for, grave injuries from grazing, unregulated cutting of trees and fires used to be suffered by the forests. This was the situation when the British took notice of the importance of the Melghat forests. The conservancy measures were first started by the Revenue authorities in 1858. In 1866 by an administrative order from the Resident at Hyderabad, the first forest Reserve of Bairagarh was created and the area was handed over to a forest officer for managements. Prior to this, the rights of the Melghat Rajas were commuted and they were granted jagirs and other benefits in other parts of the Melghat Taluq. After the creation of Bairagarh Reserve, restrictions were imposed on grazing and cutting of trees and fire protection measures were strictly adopted. These new developments were incomprehensivve for the Korkus whose age-old profession of wood cutting was largely stopped. As a result, a process of large scale depoputation started in the Melghats. There are reasons to believe that the large tract of lands where we now find forests were, prior to 1860, cultivation lands of the Korkus. The populations of the Melghats in those days was much more than what it is now. The occasional open plateaux and mango grooves all over the Melghats bore the evidences of the past habitations at those sites till the days of Dunbar Brander. It is said that during those days a message could be passed over drum all over the Melghats with in hours.

In 1871, the Berar Forest Rules were published in the notification no. 520 dt the 25th October 1871. Under rule, 8 of these Rules, the Resident had powers to declare any Government land in Berar as 'Demarcated State Forests'. As a result the Bairagarh Reserve was declared 'Demarcated State Forests' as was published in Residency orders notification no 19 of 23rd October 1874. The boundaries and area of this reserve were corrected and modified vide notification no 191 of 9th March 1876, no. 14 of 28th January 1889 and No. 167 of 1st June 1892.

Similarly the bulk of the South-West part of the Melghats was first constituted in the name of 'Gugamal Reserve' by an administrative order of the Resident in 1876. In 1882, under rule 8 of the Berar forest Rules 1871 the the 'Gugamal Reserve' was declared as 'Demarcated State Forest' vide Residency orders Notification no. 200 of 1st Dec. 1882. The area of this reserve was modified vide notification No. 14 of the 28th January 1889 and No. 167 of 1st June 1892.

In 1883, 'Chikhaldia Reserve' was constituted as 'Demarcated State Forests' under rule 8 of the Berar forest Rules 1871. The area modification was done vide notification No. 213 of 22nd July 1891.

In 1886, the Berar Forest Law was passed. But the same was not brought in force till 15th June 1892. As per section 3 (3) (a) of the Berar Forest Law, all the forests in Berar declared as 'State Forest' under any previous provision were to be deemed as 'State Forests' with in the meaning of the Berar Forest Law 1886. To take advantage of this provision, all the territories of the Melghat Taluq out side Bairagarh, Gugamal and Chikhaldia State Forest and certain Jagirs and alienated villages were declared 'Demarcated State Forests' under rule 8 of the Berar Forest Rules 1871 vide the Residency orders notification no. 167 of 1st June 1892. As a result when on June the 15th, 1892 the Berar Forest Law 1886 as amended in 1891 came in force and the Berar Forest Rules 1871 were repealed, the entire Melghat Taluq except for certain Jagirs and alienated villages was in legal status 'State Forests'. In 1892, itself Kohana and Hattighat Reserves were created partly from newly declared State Forests and partly from transfer of areas from old reserves. From 1892 to 1911 the constituted reserves under-went several modifications of areas due to inter transfer of lands among the reserves. Under Sec 40 (c) of the Berar Forest Law 1886, rules were framed to classify State forests as class A and class C and divisions I, II & III according to the type of management adopted in such forests. The Melghat Forests were classified according to these provisions under various notifications issued in the Residency orders in 1892 and after wards.

In 1903, the Region of Berar was permanently leased in perpetuity to the British against payment of annual rent. From this time the Resident at Hyderabad ceased to have control over Berar and the administration of Berar came under the direct control of the British in the Central Provinces.

In 1905, much of the State Forests C-III of the Melghat Taluq were largely depleted and cultivations replaced many of such tracts. The affected areas were those lands out side the old reserves which were declared as 'State Forests' vide notification no. 167 of 1st June 1892. As a result in 1911, large areas were disforested and

brought under revenue Settlement as the Dharni-Bairagarh, Katkumbh and Wastapur-Gaulkhera Rayatwadi tracts. The rest of the state forests were reclassified and after some additions and subtractions of areas between these forests and already existing reserves, several new reserves of Tapti, Chithri, Bod, Jhapanadeo, Dhulghat, Mahabida, Wan, Rupagarh, Khirpani and Motha were created as class A Forests vide notification no. 612 of 6-7-1911. In addition some area of Bairagarh and Gugamal reserves were transferred to form a new reserve in the name of Chikhli vide notification no 614 of 6-7-1911.

This was the position of the State Forests of the Melghats in 1911 which were then divided into 17 different reserves of which 15 were of class A and 2 were of class C types.

#### CONSTITUTION OF 'STATE FORESTS' INTO 'RESERVED FORESTS':—

In 1911, the Governor General in the Council, under powers conferred by the Indian (Foreign Jurisdiction) order in Council-1902, brought in force the application of the Indian forest Act, 1878 (VII of 1878) to the Berar Region vide G. I. F. D Notification no. 2197-I-B dated the 13th October 1911. In this notification, it was further provided that all lands declared or constituted as 'State Forests' under the Berar Forest Law 1886 or the Berar Forest Law 1886 (as amended in 1891) should be deemed to be Reserved Forests constituted under the Indian Forest Act 1878. Thus the entire 'State Forests' in Melghats became 'Reserved Forests' with in the meaning of India Forest Act 1878 after the issue of this notification.

In 1913, vide notification G. I. F. D. No. 1121 dt. 28-12-1913, the Governor General framed rules for classifications of Reserved Forests into class A and class C in Berar under Sec 75 (d) of the I. F. A. 1878. This classification corresponded to the classes A and C of State Forests made previously under rule 40 (C) of the Berar Law 1886 vide Notification no. 184 dated 6-6-1912.

#### APPLICATION OF THE INDIAN FOREST ACT 1927 :—

In 1927, new Indian Forest Act came in force and the Indian Forest Act 1878 was repealed. This new Act was applied to Berar vide Government of India, foreign and political department, Notification

No. 719-1. dated the 13th December 1927. The reserved forests of the Melghats constituted under the provisions of the Forest Act 1878 were saved because of Sec, 24 of the General clauses Act 1897, which provided for continuance of notifications issued under the old Law as if these were issued under the provisions of the new Law.

After independence of India, the continuance of the Indian forest Act 1927 and provisions made under this Law have been ensured by Article 372 of the Constitution of India.

This is the chain of links which takes us from the initial conservancy stage of 1850s of the Melghat Forests to their present status of the Reserved Forests with in the meaning of the Indian Forests Act 1927.

NOTE :—

1. The Residency Orders Notifications were infact Gazette Notifications issued by the Resident of Hyderabad from time to time for the assigned territories of the Hyderabad State.
2. Interested Readers are requested to refer to form No. 1 which is being repaired and brought upto date.
- 3 In 1902 about 800 acres of land was disforested in Chikhaide Reserve for the establishment of the Chikhaldia Civil Station. Till 1969 the Chikhaldia Civil Station was the only area in the demarcated Reserve Forests of the Melghats which was not reserved and which was controlled by Revenue authorities.



## Reference

- 1) **The Forest Manual – Hyderabad Assigned Districts – 1899**  
Pages V to XVI and 1 to 5  
For Berar Forest Law 1886 and rules framed under this law
  
- 2) **The Central Provinces Berar Forest Manual Third Edition 1915**  
Page – 38 For notification no. G. I. F. D. No. 2197 – I – B dated 13th October 1911.  
Page – 93 For Notification no. 1121 dated 28th November, 1913
  
- 3) **The Central provinces Forest Manual Fifth Edition – 1932**  
Page – 1 For Notification No. 719–1 dated 13th December 1927
  
- 4) **Working Plans of Melghate Forests by —**
  - i) Dunlar Brander
  - ii) Stein
  - iii) P. P. Joshi
  
- 5) **General Clauses Act 1897**
  
- 6) **Form No. 1 of Melghat Forests**  
For notifications under Berar Forest Law 1886 & Indian Forest Acts 1878 & 1927.

Note :- All above references have now been placed properly in the library of East Melghat Division Amravati.

Part I.—The Indian Forest Act

APPLICATION OF THE INDIAN FOREST ACT TO BERAR.

In exercise of the powers conferred by the Indian (Foreign Jurisdiction) Order in Council, 1902, and of all other powers enabling him in that behalf, the Governor-General in Council is pleased to apply to Berar the provisions, so far as they may be applicable, of the Indian Forest Act, 1878 (VII of 1878), subject to any amendments to which the Act is for the time being subject in British India:

G. I. F. D.,  
Notification  
No. 2197-1-B,  
dated the 13th  
October 1914

Provided, first, that for the purpose of facilitating the application of the said Act, any Court in Berar may construe the provisions thereof with such alterations not affecting the substance as may be necessary or proper to adapt them to the matter before the Court:

Provided, secondly, that all references to the "Local Government" shall be read as referring to the Chief Commissioner of the Central Provinces and Berar:

Provided, thirdly, that the said Act shall apply to all lands declared or constituted to be "State Forests" under the Berar Forest Law, 1886, or the Berar Forest Law, 1886, as amended by the Berar Forest Law Amendment Law, 1891, as if such lands were reserved forests constituted under the said Act.

2. The Berar Forest Law, 1886, and the Berar Forest Law Amendment Law, 1891, are hereby rescinded.

Table with multiple columns containing text and numbers, likely a list of forest areas or administrative details. The text is faint and difficult to read.

9

NOTIFICATION.

*Nagpur, the 28th November 1913.*

No. 1121.--In modification of *Residency Orders* Notifications No. 184, dated the 6th June 1892, and No. 440, dated the 12th December 1894, and in supersession of *Central Provinces Gazette* Notification No. 1384, dated the 27th November 1907, the Chief Commissioner is pleased to declare, under Section 75 (a) of the Indian Forest Act, 1878, as amended by Act XV of 1911, and as applied to Berar, that State Forests in Berar shall in future be divided into two classes—A and C—*viz.*:—

Class A shall comprise all forest areas hitherto notified as Class A, Division I; Class A, Division II; and Class B, and such areas as may in future be notified as Class A.

Class C shall comprise all other Reserved Forests.

J. HULLAH,  
*Third Secretary to the Chief Commissioner,  
Central Provinces.*

8(j)

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*Notification No. 440, dated the 12th December 1894, published on page 342 of Part I of the "Hyderabad Residency Orders," dated the 15th December 1894.*

In exercise of the powers conferred on him by section 40 (c) of the Berar Forest Law, 1886, and in modification of *Residency Orders* Notification No. 184, dated the 6th June 1892, the Resident is pleased to declare that State-forests of Class A shall be grouped under two divisions, and State-forests of Class C under three divisions, as follows :—

*State-forests of Class A.*

*Division I.*—All State-forests of Class A in the Amraoti, Akola, Buldana, Basim and Wun districts, except the State-forest of Ambabarwa in the Akola district.

*Division II.*—All State-forests of Class A in the Ellichpur district and the Ambabarwa State-forest in the Akola district.

*State-forests of Class C.*

*Division I.*—Forests outside the Melghat reserved for pasture and not ordered not to be resumed during the term of settlement.

*Division II.*—Forests outside the Melghat reserved for pasture and ordered not to be resumed during the term of settlement.

*Division III.*—Forests within the Melghat reserved for pasture.

(By order.)

A. L. P. TUCKER,  
*Secretary for Berar.*

B-623

MELGHAT FORESTS-  
A  
JOURNEY THROUGH  
LEGAL PROVISIONS.

Declared as "Demarcated STATE FOREST"  
under Rule 8 of the Berar Forest Rules- 1971.  
(Between Years 1874 to 1892)

Became "State Forests" under the 'Berar  
Forest Law-1886' by virtue of section  
3(3) (a) of this Act.  
(on June the 15th -1 8 9 2)

Became " RESERVED FOREST" under the  
'India: Forest Act-1878' vide Govern-  
ment of India-G.I.F.D. Notification  
No.2197-I-B, dated 13th October 1911.  
(on 13th October 1911)

Saved as "Reserved Forests" under the 'Indian  
Forest Act-1927', after its coming into force  
in Berar vide Govt. of India, Foreign & Political  
Deptt. Notification No.719-I dated 13-12-1927  
and repealment of the previous enactment of 1878,  
by virtue of section 24 of the General Clauses  
Act-1897.  
(On 13th December 1927)

*S.W.H. Naqvi*  
(S.W.H. Naqvi)  
Divisional Forest Officer  
East Melghat Forest Division  
AMRAYA II

L E G A L   P R O V I S I O N S

(1) THE BERAR FOREST RULES-1871.

(Published in the Notification No. 520 dt. the 25th October 1871, of the Deptt. of Revenue, Agriculture and Commerce and issued by the Government of India).

RULE-8: Under this rule the Resident of Hyderabad Residency had power to declare any land in Hyderabad assigned districts of Berar as "Demarcated State Forest".

(2) THE BERAR FOREST LAW 1886 AS AMENDED BY THE BERAR FOREST AMENDMENT LAW 1891.

(Came into force on 15-6-1892; The Berar Forest Rules 1871 were repealed.

Section-2. On and from that day the rules published in the notification of the Government of India in the Department of Revenue, Agriculture and Commerce, No. 520, dated the 25th October 1871, shall be repealed, but not so as to affect any thing done or any offence committed or any fine or penalty incurred or any proceedings commenced before that day.

Section-3. In this law unless there is some-thing repugnant in the subject or context. 'State Forest' means-

- (3) (a) a forest which under rule 8 of the rules published in the notification of the Government of India, No. 520, dated the 25th October 1871, was declared to be and at the time of this Law coming into force was a State-Forest; and
- (b) any land which may be constituted a State-Forest under section 4 of this Law :

Section-4. 1) The Resident may, by notification in the Residency Orders, declare any wood-land, ramna, permanent grazing ground or other land, which is the property of Government and is not already a State-Forest, to be a State-Forest from a date to be fixed in the notification.

Constitution of State-Forest.

- 2) The notification shall specify as nearly as possible the situation and limits of the land in respect of which the declaration is made:

Provided that, in the case of lands of which a survey map has been prepared, the notification may specify, in lieu of the aforesaid particulars, the survey numbers of the land.

- 2a) From the date fixed in any such notification, the land shall be deemed to be a State-Forest.
- 3) The Deputy Commissioner shall, before that date, cause a translation of the notification, in the language of the country, to be published in the towns and villages in the neighbourhood of the land.

Section-5. Whenever a State-Forest is not bounded by a road, stream or other existing well defined boundary-mark, it shall be demarcated by cleared lines, or in such other manner as the Resident may direct.

Demarcation of State Forest.

Section-6. No right of any description adverse to Government shall be acquired in or over a State-Forest by lapse of time or otherwise than under a grant or contract in writing made by or on behalf of the Government.

Bar of acquisition of rights.

Section-40. THE RESIDENT MAY MAKE RULES CONSISTENT WITH THIS LAW.

- (c) generally to carry out the provisions of this law.

- (3) THE GENERAL CLAUSES ACT (X OF 1897.)

Section-24. Continuation of orders etc. issued under enactments repealed and re-enacted-

## Notification By Hon'ble President Of India On Scheduled Areas.

सं. 521] नई दिल्ली, सोमवार, दिसम्बर 2, 1985/अग्रहायण 11, 1907

REGISTERED No. D. (D.N.) 77



# भारत का राजपत्र

## The Gazette of India

असाधारण  
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)  
PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 521]

नई दिल्ली, सोमवार, दिसम्बर 2, 1985/अग्रहायण 11, 1907

No. 521]

NEW DELHI, MONDAY, DECEMBER 2, 1985/AGRAHAYANA 11, 1907

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में  
रखा जा सके

Separate Paging is given to this Part in order that it may be filed as a  
separate compilation

विधि और न्याय मंत्रालय

(विधायी विभाग)

अधिसूचना

नई दिल्ली, 2 दिसम्बर, 1985

\*सा.का.नि. 876(प्र) :—राष्ट्रपति द्वारा किया गया निम्नलिखित  
प्रदेश सर्वसाधारण को जानकारी के लिए प्रकाशित किया जाता है।

"स. मा. 123"

अनुसूचित क्षेत्र (महाराष्ट्र), आदेश 1985

राष्ट्रपति, भारत के संविधान की पांचवीं अनुसूची के पैरा 6 के  
उपपैरा (2) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, अनुसूचित क्षेत्र  
(भाग क राज्य) आदेश, 1950 और अनुसूचित क्षेत्र (भाग ख राज्य)  
आदेश, 1950 को, जहां तक वे महाराष्ट्र राज्य में अब समाविष्ट क्षेत्रों  
से संबंधित हैं, विखंडित करते हैं और उस राज्य के राज्यपाल से परामर्श  
करके, निम्नलिखित प्रदेश करते हैं, अर्थात् :—

1. (1) इस आदेश का संक्षिप्त नाम अनुसूचित क्षेत्र (महाराष्ट्र)  
आदेश, 1985 है।

(2) यह तुरंत प्रवृत्त होगा।

2. नीचे विनिर्दिष्ट क्षेत्र महाराष्ट्र राज्य के भीतर अनुसूचित क्षेत्र के  
रूप में पुनः परिनिश्चित किए जाते हैं :—

1. धाना जिला में निम्नलिखित :—(क) दहानू, तनसासे, मोखाडा,  
जोहर, वाडा और शाहपुर तहसील;

(ख) (i) पालघर तहसील के नीचे उल्लिखित एक सौ चौवालीस  
गांव :—

पालघर तहसील :—(1) नागापुर, (2) कुडन, (3) दहोसर-तर्फ-तारापुर,  
(4) शिवाली, (5) दावे, (6) अकरपट्टी, (7) कुरगांव, (8)  
परनाली, (9) वेंगती, (10) पाथरवाली, (11) नेवले, (12)  
शिगांव, (13) गरगांव, (14) चिचारे, (15) अकेगौहन, (16)  
नानीवाली, (17) अम्बेदे, (18) बरहानपुर, (19) सलगांव, (20)  
कुण्ड (21) अणविसाडे (22) नफडे (23) आफलो, (24)  
अशरो, (25) सोमाटे, (26) पयथान, (27) बोइसाड, (28)  
बोमेटो, (29) महागांव, (30) किराजे (31) वाडे, (32) खडक-  
वाले, (33) मेहवान, (34) जिलसेट (35) मोडेगांव (36) करसूद,  
(37) बेटेगांव, (38) वासडे (39) कलौडे (40) घनेडे, (41)  
कम्बलगांव, (42) माण (43) धानेधर (44) बेटे, (45) चारो  
बुदरूक, (46) बिरनाडी (47) कल्लाले (48) पडवे, (49)  
पाने, (50) नन्दोरे (51) गिरवाली (52) चोराने, (53) देवकोपे

1175 GI/85

(1)

(10) Amade, (11) Warsawane, (12) Kondhare, (13) Adivare, (14) Borghar, (15) Patan, (16) Kushire Khurd, (17) Panchale Budruk, (18) Kushire Budruk, (19) Digad, (20) Panchale Khurd, (21) Mahelunge-tarf-Ambegaon, (22) Savaraji, (23) Megholi, (24) Vachape, (25) Sakeri, (26) Pimpri, (27) Ambegaon, (28) Jambhori, (29) Kalambai, (30) Konchawal, (31) Phulavade, (32) Phalode, (33) Koltavade, (34) Terungaon, (35) Dimbhe Budruk, (36) Mahalunge-tarf-Ghoda, (37) Rajpur, (38) Chikhali, (39) Rajwadi, (40) Supeghar, (41) Taleghar, (42) Mapoli, (43) Dimbhe Khurd, (44) Pokhari, (45) Gohe Budruk, (46) Nigadale, (47) Gohe Khurd, (48) Apati, (49) Gangapur Khurd, (50) Amondi, (51) Kanase, (52) Gangapur Budruk, (53) Shinoli, (54) Pimpalgaon-tarf-Ghoda, (55) Sal, (56) Dhakale.

(ii) The sixty-five villages in Junnar tahsil as mentioned below :—

*Junnar tahsil —*

(1) Chilhwadi, (2) Ambegaon, (3) Jambhuli, (4) Kirishwar, (5) Muthane, (6) Kolhwadi, (7) Kopure, (8) Manerwa, (9) Sangarwa, (10) Alu, (11) Khubi, (12) Pimpalgaon Jgr., (13) Karanjak, (14) Muth, (15) Pangri-tarf-Muth, (16) Kolwadi, (17) Pargan-tarf-Muth, (18) Tuleran, (19) Sitewadi, (20) Warkhak, (21) Nimgir, (22) Anjanwale, (23) Hasar, (24) Lunk, (25) Khire, (26) Ghoghur, (27) Jalwadi, (28) Hirji, (29) Undekhadak, (30) Rajpur, (31) Khatkale, (32) Manikoh, (33) Kulkumb, (34) Usran, (35) Vevadi, (36) Tijpur, (37) Phanglghavan, (38) Chavane, (39) Pur, (40) Khangaon, (41) Mankeshwar, (42) Surale, (43) Amboli, (44) Shiroli-tarf-Kukacner, (45) Wankadi, (46) Aptale, (47) Keli, (48) Shivli, (49) Utchil, (50) Ertale, (51) Dhulewadi-tarf-Minher, (52) Bhivade Budruk, (53) Ingalon, (54) Bhivade Khurd, (55) Ghangalare, (56) Sonavale, (57) Tambe, (58) Hivare-tarf-Minher, (59) Hatvij, (60) Anbe, (61) Pimpurwadi, (62) Sukalewache, (63) Godre, (64) Khangaon, (65) Somatwadi.

7. The following in Nanded District:—

(a) The one hundred fifty-two villages and town Kinwat in Kinwat tahsil as mentioned below:—

*Kinwat Tahsil —*

(1) Takli, (2) Padga, (3) Sayepal, (4) Murli, (5) Wadsa, (6) Koli, (7) Ashta, (8) Gondgaon, (9) Madnapur (Mahore), (10) Bondgavan, (11) Umra, (12) Machandra Pard, (13) Karalgaon, (14) Sawarkhed, (15) Digdi (Kutemar), (16) Wai, (17) Hardap, (18) Naikwadi, (19) Hingani, (20) Wazra, (21) Tulshi, (22) Gondwadsa, (23) Anjankhed, (24) Bhorad, (25) Chorad, (26) Dhanora (Sindkhed), (27) Rampur, (28) Pathri, (29) Khambala, (30) Pardi, (31) Sindkhed, (32) Cinchkhed, (33) Hatola, (34) Wafani, (35) Dhundra, (36) Gouri, (37) Both, (38) Sailu, (39) Karanji (Sindkhed), (40) Bhagwati, (41) Wazra Budruk, (42) Umri, (43) Unakdeo, (44) Chais, (45) Pimpalsenda, (46) Sarkhani, (47) Delhi, (48) Nirala, (49) Noorgaon, (50) Titvi, (51) Lingi, (52) Nagapur, (53) Jununi, (54) Digadwazra, (55) Darsangvi (Sindkhed), (56) Singoda, (57) Sirpur, (58) Tembhi, (59) Patoda Budruk, (60) Mandvi, (61) Jawarla, (62) Palsi, (63) Belgaon, (64) Kanki, (65) Kothari, (Sindkhed), (66) Pimpalgaon (Sindkhed), (67) Dongargaon (Sindkhed), (68) Jarur, (69) Minki, (70) Pachunda, (71) Wanola, (72) Sakur, (73) Mendki, (74) Digdi (Mohapur), (75) Dhanora (Digdi), (76) Mohapur, (77) Mungshi, (78) Singdi (Kinwat), (79) Malborgaon, (80) Neipur

(81) Rajgad, (82) Wadoli, (83) Anji, (84) Kanakwadi, (85) Loni, (86) Dhamandhari, (87) Pandhara, (88) Belori (Kinwat), (89) Maregaon, (90) Kamthala, (91) Ambadi, (92) Kherda, (93) Malkapur, (94) Ghoti, (95) Sirmetti, (96) Bhimpur, (97) Pipalgaon (Kinwat), (98) Ghogarwadi, (99) Gokunda, (100) Mandva, (101), (102) Digdi (Mangabodi), (103) Nagzari, (104) Kothari (Chikhli), (105) Pradhan Sangvi, (106) Bendi, (107) Amadi, (108) Madnapur (Chikhli), (109) Shaniwar Peth, (110) Dabhadi, (111) Chikhli, (112) Hudi (Chikhli), (113) Endha, (114) Bhulja, (115) Darsangvi (Chikhli), (116) Malakwadi, (117) Penda, (118) Pardi Khurd, (119) Karla, (120) Degaon, (121) Lingohari, (122) Pardi Budruk, (123) Bodhadi Khurd, (124) Bodhadi Budruk, (125) Sindgi (Chikhli), (126) Andbori (Chikhli), (127) Kopara, (128) Piperphodi, (129) Patoda (Chikhli), (130) Pipri, (131) Dhanora (Chikhli), (132) Sawari, (133) Thara, (134) Poth Reddy, (135) Singarwadi, (136) Anjegaon, (137) Bhandarwadi, (138) Jaladhara (Chandrapur), (139) Belori (Chikhli), (140) Malkolari, (141) Digra, (142) Dongargaon (Chikhli), (143) Shivoni (Chikhli), (144) Paroti, (145) Sawargaon, (146) Jaladhara (Islapur), (147) Kothari, (148) Hudi (Islapur), (149) Karanji (Islapur), (150) Kupti Khurd, (151) Waghari, (152) Talari.

8. The following in Amravati District:—

(a) The tahsils of Chikhaldara and Dharni.

9. The following in Yavatmal District:—

(a) (i) The one hundred thirty villages in Maregaon tahsil as mentioned below :—

*Maregaon Tahsil: —*

(1) Ghogul'ara, (2) Shionala, (3) Buran'ca, (4), (5) Phagal, (6) Khatgaon, (7) Kh'ka'wai, (8) Ghogachara, (9) Narsala, (10) Dhamani, (11) Madnapur, (12) Bri Khurd, (13) Pisgaon, (14) Wa'gaon, (15) Ph'ski (Forest Village), (16) Bhalwadi, (17) Pathari, (18), (19) Chinchala, (20) Par'harkawa'a (52), (21) Kharda (Forest Village), (22) Pimrad (Forest Village), (23) Ph'parwa'a, (24) Sal bhatti (Forest Village), (25) Doldongargaon, (26) Ma'hindra, (27) Pan'wahir, (28) Jalka, (29) Par'hard'vi (Forest Village), (30) Ambora (Forest Village), (31) Chinchoni Botoni, (32) Awa'gaon (Forest Village), (33) Khatgaon, (34), (35) Khairgaon, (36), (37) Sarati, (38) Buran'ca, (39), (40) Durgala, (41) Wagdhara, (42) Menchani, (43) Ghapur, (44) Hawari, (45) Khapri, (46) Uchatdevi (Forest Village), (47) Maregaon (Forest Village), (48) Khadani, (49) Mhaisdocka, (50) Palgaon, (51) Botoni, (52) Girapur (Forest Village), (53) Pachpochar, (54) Ambezari, (55) Rohapat, (56) Raipur, (57) Sagnapur, (58) Hiwara Barsa, (59) Rampur, (60) Kalli Borgaon, (61) Pardi, (62), (63) Shibli, (64) Chiali (Forest Village), (65) Borgaon (Forest Village), (66) Pendarhari, (67) Arjuni, (68) K'gaon, (69) Rajani, (70) Majara, (71) Gargapur (Forest Village), (72) Bhoikund (Forest Village), (73) Wahona, (74) Susari, (75) Surla, (76), (77) Gocani, (78) Nimani, (79) Darara, (80) Asa, (81) Jaglon, (82) Zamkola, (83) Isapur, (84) Kiloni, (85) Umarghat, (86) Wallasa, (87) Junoni (Forest Village), (88) Lancheri, (89) Chinchhat, (90) Ambzari, Khurd, (91) Ambzari Barur, (92) Kar'gaon Khurd, (93) Nimbad'vi, (94) Tembhi, (95) Kundi, (96) Mandiv, (97) Junoni, (98) Parambha, (99) Pokhari (Forest Village), (100) Piwardol, (101) Bhorad

## Appendix No. VI

### Privileges And Concessions

#### A) Rules for Concessions for erstwhile forest Villages:

Under the rules, framed by the Central Province Government, the forest villages were entitled to certain concessions purely for their bona fide use. However, these concessions are entitled, even after they are declared as revenue village vide A.D.M. 22/971 dated 32.4.71. These concessions were in the form of free grants. The competent authorities, subject to their power of sanctioning, were competent to sanction free grants. They are eligible for the free supply of following forest produce.

- i). Wood and thorn for his agriculture work.
- ii). A reasonable amount of wood and grasses for his house building and repairs.
- iii). Dead wood for fuel, bamboo and leaves, any edible fruits, flowers and roots required for his domestic purpose.

The government vide letter No. R-68 A. D. of 2.5.1925 laid down the procedure of controlling the free grants. These are –

- a). As far as possible free grants should be met out of sale depot on payment of the cost involved of from regular felling.
- b). Unregulated felling should be made only when other means are not possible.
- c). The selection of trees, estimated to give the required quality of timber should be done by an officer not lower in rank than a ranger.
- d). No excess timber should be allowed to remove.
- e). In case of free grants from depots, the value of the timber should be calculated at the market rate minus cost of extraction. The grantee should pay the cost of extraction.
- f). Trimming of tree stumps should be strictly enforced.

In case of unregulated felling, the permission of Conservator of Forests will be required. The procedure of valuation of free grant shall be according to circular No, 9-113-7 dated 26<sup>th</sup> June-1911, (A-502 B.F.M.).

#### B). Concession to rayatwadi villages within the nistar zones: -

The following concessions have been granted vide FCT/1564/22-23-Y dated 15.1.1968.

The nistar should be given from the working coupes, subjected to availability. It is on first-come first served basis.

**(i). Timber:** - An agriculturist will get timber upto girth 60 cm. For his household and agricultural purpose at the concessional rates from the working coupes. They will be provided at half the rate. During Kharif and Rabi season i.e. from June to July and September to November, the agriculturists will get the small sized timber for making agricultural implements. The fire sufferer can get second class timber and grass free of cost.

**(ii). Pole:** - All poles from the working coupe below 60-cm. Girth class will be reserved for Nistar supply. Each family of the agriculturist will be provided 10 poles subjects to the availability. The Nistar is distributed on the principle of “first come first served” basis.

**(iii). Firewood:** - Fifty percent of the fulewood from the working coupe will be reserved for the supply at the concessional rate. Each agricultural family will be given two-cart load of firewood. In case of scarcity the villagers are permitted to remove dead trees from the forest after obtaining the permission of the DFO/DCF. For persons staying in town-ship, of population more than 10.000 and within eight km. from the periphery of the forest. The labour will get the firewood and grass from the coupe yearly reserved for felling.

**(iv). Grass and grazing:** - the agriculturists are permitted to remove grass from the coupe. Grazing is regulated as per grazing settlement based on grazing rules 1973.

**Occupational nistar:** - (i). Burads are entitled to get 1500 bamboos on concessional rates.

However has mentioned in volume I bamboo being a MFP the ownership rights over bamboo had gone to the Panchayats at appropriate level and Gram Sabha. Thus the policy of providing bamboo at nistar rates to the burads shall have to be revisited by the state government.

(ii). A cobbler is entitled to get babul barks either free or at specified rates.

(iii). A blacksmith can get teak firewood from the working coupes for making charcoal.

(iv). A carpenter can get carpenterwood at concessional rates from departmentally worked coupes.

(v). The cowdung of domestic animals grazing in the forests will be allowed to be removed by the owner of the cattle without any further payment.

**C). Provisions for Ex-Jagir villages:** - The following are the provisions of Ex-Jagir villages Ranigaon, Kanjoli, Chondo, Palaskundi, Dhulghat, Girguti, Ambapati, Kundi, Samali, Chauryamal, Sakri-Chikhaldara, Dhamangaon, Sattirupatta, Tekda, Nagzira, will be met by the forest department from the land declared as reserve. The timber and fulewood subject to availability will be supplied to them free of cost. The following is the scale showing the maximum nistar to an individual.

#### **A) Grazing.**

- |                            |  |
|----------------------------|--|
| a). Cultivator             | - Two plough cattle per plough plus four others including one she buffalo. |
| b). Labour and agriculture | - Four cattle including one agriculture.                                   |

#### **B) Timber.**

- |                            |   |
|----------------------------|---|
| a). Agricultural implement | - Eight poles upto 45 cm (18") girth along with timber actually needed. |
| b). Machan                 | - Four poles upto 45 cms. Girth after every three years.                |
| c). Repairs to house       | - Upto 10 poles of 60 cm girth if needed.                               |
| d). New construction       | - As required, but on full payment.                                     |

#### **C) Bamboo.**

- |   |                              |
|---|------------------------------|
| i). Agriculturist   | - Fifty bamboos for repairs. |
| ii). Non-agriculturist  | - Twenty-five for repairs.   |
| iii). Bonafide villagers will also be eligible to remove forest produce like bamboo. Firewood, grass etc. for their own use, on payment to paid and discount vendors. |                              |



**Appendix No. VII**

**Government Resolution On Delegation Of Powers Under  
Wildlife Protection Act, 1972**

२

महाराष्ट्र शासन राजपत्र असाधारण भाग चार-अ, जुलै २३, २०१३/श्रावण १, शके १९३५

**REVENUE AND FORESTS DEPARTMENT**  
Madam Cama Road, Hutatma Rajguru Chowk,  
Mantralaya, Mumbai 400 032, dated 20th July 2013.

**NOTIFICATION**

WILD LIFE (PROTECTION) ACT, 1972.

No. WLP-0613/CR-199/F-1.- In exercise of the powers conferred by clause (a) of sub-section (1) of section 4 of the Wild Life (Protection) Act, 1972 (No. 53 of 1972), in its application to the State of Maharashtra, and in supersession of all previous Notifications and Orders, issued from time to time, in this behalf, the Government of Maharashtra is hereby pleased to appoint the Principal Chief Conservator of Forests (Wildlife), Maharashtra State, as the Chief Wild Life Warden for the State of Maharashtra.

By order and in the name of the Governor of Maharashtra,

DR. U. M. FAROOQUI,  
Joint Secretary to Government.

**REVENUE AND FORESTS DEPARTMENT**

Madam Cama Road, Hutatma Rajguru Chowk,  
Mantralaya, Mumbai 400 032, dated 21st July 2013.

**NOTIFICATION**

WILD LIFE (PROTECTION) ACT, 1972.

No. WLP-0613/CR-199/F-1.—Whereas, the Government of Maharashtra, *vide* Government Order, Revenue and Forests Department, No. WLP-1077/86854-F-1, dated the 5th May 1977, in exercise of the powers conferred by clauses (b) and (c) of sub-section (1) of section 4 of the Wild Life (Protection) Act, 1972 (No. 53 of 1972) (hereinafter referred to as 'the said Act'), appointed the Additional Chief Wildlife Wardens, Deputy Chief Wildlife Wardens, Wildlife Wardens and Assistant Wildlife Wardens ;

And whereas, the Government of Maharashtra *vide* Government Notification, Revenue and Forests Department, No. WLP-1077/86854-F-1, dated the 5th May 1977, empowered the Chief Wildlife Warden, Additional Chief Wildlife Wardens and Deputy Chief Wildlife Wardens for the purpose of section 54 of the said Act ;

And whereas, the Government of Maharashtra *vide* Government Notification Revenue and Forests Department, No. WLP-1097/CR-121/F-1, dated the 26th September 2001, authorized the Honorary Wildlife Wardens in each District of the State (except Washim and Nandurbar) to exercise the powers of the Chief Wildlife Warden in the respective District for the purpose of clause (b) of section 55 of the said Act ;

And whereas, the Government of Maharashtra *vide* Government Order, Revenue and Forests Department, No. WLP-1003/CR-89/F-1, dated the 23rd February 2004, authorized certain officers to perform the functions of the competent authority under Chapter VI-A of the said Act ;

And whereas, the Government of Maharashtra *vide* Government Notification Revenue and Forests Department, No. WLP-1003/CR-89/F-1, dated the 23rd February 2004, authorized all Additional Chief Wildlife Wardens, Deputy Chief Wildlife Wardens, and Wildlife Wardens to exercise powers under clause (a) to (d) of sub-section (8) of section 50 of the said Act ;

And whereas, in view of change in the organizational structure of the Forest Department and that of the Forest Development Corporation of Maharashtra Limited, and consequent up-gradation of certain posts and change of designations of certain posts of the officers appointed from time to time for the purpose of the said Act, it is expedient to issue notification to appoint, empower, and authorize these officers for various purposes of the said Act ;

Now, therefore, in exercise of powers conferred by sub-section (1) of section 4, sub-section (2) of section 39, sub-section (8) of section 50, section 54, clause (b) of section 55, sections 58D, 58G and 60B of the Wild Life (Protection) Act, 1972 (53 of 1972), in its application to the State of Maharashtra, and all other powers enabling it in that behalf, and in supersession of all above mentioned Notifications and Orders, issued from time to time in this behalf, the Government of Maharashtra hereby,—

(I) appoints following officers in the organizations of the Forest Department and the Forest Development Corporation of Maharashtra Limited as Wild Life Wardens for their respective territorial jurisdiction as mentioned in the Schedule given below,—

## SCHEDULE

Sr. No. (1)	Organization (2)	Officers (3)
1	Forest Department	Additional Principal Chief Conservator of Forests (Wildlife), Chief Conservators, Field Directors of Tiger Reserves, Conservators, Deputy Conservators, Divisional Forest Officers, Deputy Directors in Tiger Reserves, Sub-Divisional Forest Officers of independent Sub-Divisions, Assistant Conservators, Range Forest Officers, Foresters and Forest guards.
2	Forest Development Corporation of Maharashtra Ltd.	General Managers, Regional Managers, Divisional Managers, Assistant Managers, Range Forest Officers, Foresters and Forest guards.

*Explanation.*— The officers mentioned in column (3) against Sr. No. 1 in the Schedule above will include the officers of both the Territorial and Wildlife Wings of the Forest Department, e.g. Chief Conservator includes Chief Conservator (Wildlife).

(II) appoints, empowers, and authorizes the following officers in the organizations of the Forest Department, Forest Development Corporation of Maharashtra Limited and Police officers mentioned in column (2) of the Schedule given below, for the purpose of various sections of the said Act specified in column (3),—

## SCHEDULE

Sr. No. (1)	Officers (2)	Sections (3)
1	(i) Additional Principal Chief Conservator of Forests (Wildlife), Field Directors of Tiger Reserves, Chief Conservators, Conservators, Deputy Conservators, Divisional Forest Officers, Deputy Directors in Tiger Reserves, Sub-Divisional Forest Officers of independent sub-divisions, Assistant Conservators and Range Forest Officers. (ii) General Managers, Regional Managers and Divisional Managers of the FDCM Ltd.	39(2)
2	(i) Additional Principal Chief Conservator of Forests (Wildlife), Field Directors of Tiger Reserves, Chief Conservators, Conservators, Deputy Conservators, Divisional Forest Officers, Deputy Directors in Tiger Reserves, Sub-Divisional Forest Officers of independent sub-divisions and Assistant Conservators. (ii) General Managers, Regional Managers, Divisional Managers and Assistant Managers of the FDCM Ltd.	50(8)
3	(i) Chief Wild Life Warden, Additional Principal Chief Conservator of Forests (Wildlife), Field Directors of Tiger Reserves, Chief Conservators, Conservators and Deputy Conservators. (ii) General Managers, and Regional Managers, of the FDCM Ltd.	54
4	Police officers not below the rank of Police Sub-Inspector.	55 (b)
5	Additional Principal Chief Conservator of Forests (Wildlife), Field Directors of Tiger Reserves, Chief Conservators.	58D
6	Chief Wild Life Warden, Additional Principal Chief Conservator of Forests (Wildlife), Field Director of Tiger Reserves, Chief Conservators, Conservators.	58G
7	Chief Wildlife Warden.	60B

*Explanation.—(1)* Officers mentioned in column (2) in the Schedule above will include the officers of both the Territorial and Wildlife Wings of the Forest Department, *e.g.* Chief Conservator includes Chief Conservator (Wildlife).

*Explanation.—(2)* Nothing in this Notification shall affect or abridge any proceeding which is in progress as a consequence of lawful actions taken by any officer in accordance with the powers conferred by any of the notifications or orders issued under the provisions of the said Act, which are superseded by this Notification.

By order and in the name of the Governor of Maharashtra,

DR. U. M. FAROOQUI,  
Joint Secretary to Government.

**CHIEF WILDLIFE WARDEN, MAHARASHTRA STATE**

Van Bhavan, Ramgiri Road, Civil Lines, Nagpur 440001,  
dated the 26th July 2013

**Order**

WILD LIFE (PROTECTION) ACT, 1972.

No. Desk-23(4)/C No. 494/1603.—In exercise of the powers conferred by sub-section (2) of section 5 of the Wild Life (Protection) Act, 1972 (53 of 1972) and in superseession of all other orders issued in this behalf, the Chief Wild Life Warden, Maharashtra State, with the precious approval of the State Government accorded *vide* Government Letter, No. WLP. 0613/CR-199/F-1, dated the 22nd July 2013, hereby delegates his powers and duties under this Act, as specified in column (3) of the Schedule appended hereto to the Wild Life Wardens appointed under Government Notification Revenue and Forests Department, No. WLP. 0613/CR-199/F-1, dated the 21st July 2013 and to the Honorary Wild Life Wardens as may be appointed by the State Government from time to time, specified in column (2) for their respective territorial jurisdiction, namely :—

**SCHEDULE**

Sr. No. (1)	Wild Life Wardens and Honorary Wild Life Wardens (2)	Sections (3)
1	Additional Principal Chief Conservator of Forests (Wildlife), Field Directors of Tiger Reserves, Chief Conservators, Conservators.	11 (1)(b), 17C(1), 17D(1), 17E(1), 27(1)(b), 27(2)(c), 28, 31 r/w 35(8), 33(a), 33(b), 33(c), 33A, 34 r/w 35(8), 34A(1)(a), 34A(1)(b), 39(3), 40(1), 40(2), 40(4), 41(1), 42, 43(2), 44(2), 44(3), 44(4), 44(7), 45, 47(a)(ii), 47(b), 48A, 49C(1), 49C(2), 49(C)(6), 50(1), 50(3), 50(3A), 50(6), 54 and 55(b).
2	General Managers, Regional Managers, FDCM Ltd.	11(1)(b), 33A, 34A(1)(a), 34A(1)(b), 39(3), 50(1), 50(3), 50(3A), 50(6), 54 and 55(b).
3	Deputy Conservators, Divisional Forest Officers, Deputy Directors in Tiger Reserves, Sub-Divisional Forest Officers of Independent Sub-Divisions.	11(1)(b), 17C(1), 17D(1), 17E(1), 27(1)(b), 27(2)(c), 28(1)(d), 28(1)(e), 31 r/w 35(8), 33(a), 33(b), 33(c), 33A, 34(1), 34(2) r/w 35(8), 34A(1)(a), 34A(1)(b) (full powers except that the powers of the Sub-Divisional Forest Officers of independent sub-divisions shall be restricted only to the extent of removal of unauthorized structures, buildings, or contructions erected on any Government land within any sanctuary and national park and shall not include the power of confiscation), 39(3), 40(1), 40(2), 41(1), 47(a)(ii), 47(b), 48A, 49C(1), 49C(2), 49(C)(6), 50(1), 50(3), 50(3A), 50(6), 54 (only Deputy Conservators) and 55(b).
4	Divisional Managers, FDCM Ltd.	11(1)(b), 33A, 34A(1)(a), 34A(1)(b), (excluding the power of confiscation) 39(3), 50(1), 50(3), 50(3A), 50(6) and 55(b).
5	Assistant Conservators	11(1)(b), 27(2)(c), 28(1)(d), 28(1)(e), 31 r/w 35(8), 33A, 34A(1)(a), 34A(1)(b), (excluding the power of confiscation) 41(1), 47(b), 50(1), 50(3), 50(3A), 50(6) and 55(b).
6	Assistant Managers FDCM Ltd.	11(1)(b) [in respect of nilgai ( <i>Boselaphus tragocamelus</i> ) and wild pig ( <i>Sus scrofa</i> ) only] 34A(1)(a), 34A(1)(b), (excluding the power of confiscation) 50(1), 50(3), 50(6) and 55(b).
7	Range Forest Officers	11(1)(b) [in respect of nilgai ( <i>Boselaphus tragocamelus</i> ) and wild pig ( <i>Sus scrofa</i> ) only] 27(2)(c), 41(1), 47(b), 50(1), 50(3), 50(6) and 55(b).

## SCHEDULE—Contd.

(1)	(2)	(3)
8	Range Forest Officers, FDCM Ltd.	11(1)(b) [in respect of nilgai ( <i>Boselaphus tragocamelus</i> ) and wild pig ( <i>Sus scrofa</i> )] 50(1), 50(3) and 55(b).
9	Foresters, Forest Guards	27(2)(c), 50(1) and 50(3).
10	Foresters and Forest Guards in FDCM Ltd.	50(1) and 50(3).
11	Honorary Wild Life Wardens	55(b).

*Explanation.*—(1) Officers mentioned in column (2) in the Schedule above will include the officers of both the Territorial and Wildlife Wings of the Forest Department, e.g. Chief Conservator includes Chief Conservator (Wildlife).

(2) Nothing in this order shall affect or abridge any proceeding which is in progress as a consequence of lawful actions taken by any officer in accordance with the orders which are superseded by this order.

S. W. H. NAQVI,  
Chief Wildlife Warden,  
Maharashtra State, Nagpur.

**Appendix No. VIII**

**Existing Ranges, Rounds And Beats (With Areas) Of  
East Melghat Division**

(Area in ha.)

<b>Name Of Range With Hq.</b>	<b>Area</b>	<b>Name Of Round With Hq.</b>	<b>Area</b>	<b>Name Of Beat With Hq.</b>	<b>Area</b>	<b>Compt. No.</b>	<b>Area</b>	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	
Chikhaldhara	10946.76	Chikhaldhara H.Q. Chikhakdhara	3804.11	Jamunnala	998.94	8 11 49	400.60 243.89 354.45	
				<b>Total</b>		<b>998.94</b>		
				Motha	667.86	13 20 21 22 48	161.97 207.76 6.87 149.10 142.16	
					<b>Total</b>		<b>667.86</b>	
					East Chikhaldhara	1439.27	25 43 44 45 46 47 50	162.16 173.01 220.57 343.23 131.38 164.02 244.90
						<b>Total</b>		<b>1439.27</b>
						West Chikhaldhara	1098.64	39 40 33 38
				<b>Total</b>				<b>1098.64</b>
				Wastapur			3582.20	30 31 31 33 34
					<b>Total</b>		<b>1140.84</b>	
					Jamli	1089.50	790 791 792 793	264.70 369.10 240.80 214.90
						<b>Total</b>		<b>1089.50</b>
				West Manbhang		1351.86	26 27 28 29	379.89 319.89 366.78 285.30
<b>Total</b>		<b>1351.86</b>						

Name Of Range With Hq.	Area	Name Of Round With Hq.	Area	Name Of Beat With Hq.	Area	Compt. No.	Area			
1	2	3	4	5	6	7	8			
Chikhaldhara	10946.76	Dhamangao	3159.85	Chichati	802.49	19	229.44			
						23	313.99			
						24	259.06			
								<b>Total</b>		<b>802.49</b>
				Dhamangaon	519.03	4	132.55			
						5	64.83			
						6	321.70			
						<b>Total</b>	<b>519.08</b>			
				West Madki	1159.93	15	314.00			
						16	292.24			
						17	262.29			
						18	291.40			
		<b>Total</b>	<b>1159.93</b>							
East Madki	678.35	7	183.09							
		12	200.26							
		14	295.00							
		<b>Total</b>	<b>678.35</b>							
Ghatang H.Q. Ghatang	1208.84	Bihali H.Q. Bihali	4410.65	West Bihali	813.47	1	160.18			
						2	159.99			
						3	172.08			
						9	321.22			
								<b>Total</b>	<b>813.47</b>	
				East Bihali	714.66	64	129.71			
						65	197.05			
						66	192.64			
						67	200.32			
						<b>Total</b>	<b>719.72</b>			
				Bhulori	714.66	62	114.52			
						63	184.53			
						68	147.63			
						69	174.99			
						70	92.99			
						<b>Total</b>	<b>714.66</b>			
				Salona	974.19	10	142.99			
						56	164.04			
						57	111.20			
						58	170.30			
						59	108.05			
60	156.21									
61	121.40									
		<b>Total</b>	<b>974.19</b>							
Masondi	1188.61	51	254.06							
		52	161.65							
		53	192.63							
		54	291.73							
		55	288.54							
		<b>Total</b>	<b>1188.61</b>							

Name Of Range With Hq.	Area	Name Of Round With Hq.	Area	Name Of Beat With Hq.	Area	Compt. No.	Area						
1	2	3	4	5	6	7	8						
Ghatang H.Q. Ghatang	1208.84	South Taora H.Q. Ghatang	3342.98	North Ghatang	1285.75	71	130.36						
						72	226.86						
						73	228.84						
						74	206.79						
						75	282.06						
						78	210.84						
						<b>Total</b>	<b>1285.75</b>						
						Sirasban H.Q. Bhawai	836.31	80	81	218.93	212.46	83	207.44
		<b>Total</b>	<b>836.31</b>										
		South Bhawai H.Q. Bhawai	1220.92	86	87	228.64	189.15	88	188.99				
										89	212.87		
												90	210.43
										90	193.84		
												<b>Total</b>	<b>1220.92</b>
North Taora H.Q. Bhawai	5055.21									East Taora H.Q. Bhawai	1319.14	79	237.95
		82	192.51										
				198	330.22								
						199	316.06						
		<b>Total</b>	<b>1319.14</b>										
West Taora H.Q. Bhawai	1244.44	84	147.36	91	267.49	194	239.57						
								195	163.49				
										196	198.70		
								197	227.83				
										<b>Total</b>	<b>1244.44</b>		
								North Taora H.Q. Makhala	991.07	200	265.07	201	279.23
203	213.27												
		<b>Total</b>	<b>991.07</b>										
South Taora H.Q. Makhala	1500.56	204	322.53	206	219.74	207	255.76						
								208	198.70				
										298	227.03		
								299	276.80				
										<b>Total</b>	<b>1500.56</b>		

Name Of Range With Hq.	Area	Name Of Round With Hq.	Area	Name Of Beat With Hq.	Area	Compt. No.	Area		
1	2	3	4	5	6	7	8		
Jarida H.Q. Jarida	18127.97	Karanj H.Q. Karanj	2932.79	Bordha	956.13	389	155.89		
						390	112.33		
						391	131.70		
						392	177.65		
						393	180.11		
						394	198.45		
		<b>Total</b>	<b>956.13</b>						
				East Karanj			1006.36	433	160.08
								435	166.32
								436	169.15
								438	163.49
								439	192.44
440	154.87								
<b>Total</b>	<b>1006.36</b>								
		Karanj			970.31	<b>432</b>	159.34		
						437	124.24		
						441	194.65		
						442	137.59		
						443	180.88		
444	173.61								
<b>Total</b>	<b>970.31</b>								
Ektai	1980.73	Ekatai			1035.17	445	247.53		
						446	138.09		
						447	179.68		
						448	114.02		
						449	188.27		
450	167.58								
<b>Total</b>	<b>1035.17</b>								
		Bhandum			945.56	451	146.83		
						452	149.14		
						453	172.29		
						454	160.03		
						455	103.60		
456	213.67								
<b>Total</b>	<b>945.56</b>								
Rahu H.Q. Rahu	5340.51	North Marita			1339.43	421	205.97		
						422	123.01		
						423	168.34		
						425	256.96		
						426	204.76		
						427	187.36		
						428	193.03		
<b>Total</b>	<b>1339.43</b>								

Name Of Range With Hq.	Area	Name Of Round With Hq.	Area	Name Of Beat With Hq.	Area	Compt. No.	Area
1	2	3	4	5	6	7	8
Jarida H.Q. Jarida	18127.97			Rahu	1272.36	410	154.99
				411		152.97	
				412		183.32	
				429		226.21	
				430		173.20	
				431		195.54	
				434		186.13	
				<b>Total</b>		<b>1272.36</b>	
				South Rahu		1587.10	407
		408	186.55				
		409	163.49				
		413	190.20				
		414	152.96				
		415	151.34				
		416	182.90				
417	176.44						
424	207.19						
<b>Total</b>	<b>1587.10</b>						
East Rahu	1141.62	395	193.70				
396		171.17					
397		147.30					
401		156.81					
404		161.05					
405		149.32					
406	162.27						
<b>Total</b>	<b>1141.62</b>						
Butida H.Q. Biba	3853.76	North Jarida	691.66	365	130.71		
				337	74.72		
				339	107.85		
				354	126.26		
				355	108.05		
				356	144.07		
		<b>Total</b>	<b>691.66</b>				
		Butida	923.35	340	110.75		
				341	180.28		
				342	166.60		
				343	132.74		
				344	161.40		
		345	171.58				
		<b>Total</b>	<b>923.35</b>				
		Bodu	429.42	346	102.50		
347	192.57						
349	134.35						
<b>Total</b>	<b>429.42</b>						
Lakhewada	717.33	348	174.01				
		351	209.05				
		352	178.06				
		353	156.21				
<b>Total</b>	<b>717.33</b>						

Name Of Range With Hq.	Area	Name Of Round With Hq.	Area	Name Of Beat With Hq.	Area	Compt. No.	Area				
1	2	3	4	5	6	7	8				
Jarida H.Q. Jarida	18127.97			North <i>Lakhewada</i>	477.53	350 357 359 <b>Total</b>	126.54 136.78 214.21 <b>477.53</b>				
				<i>Chobita</i>	614.47	358 360 363 364 <b>Total</b>	167.16 134.30 116.34 196.67 <b>614.47</b>				
				Khari H.Q. Khari	4020.18	South <i>Khari</i> H.Q. <i>Biba</i>	1162.58	361 362 366 367 368 375 376 <b>Total</b>	139.85 175.97 142.29 183.65 187.37 160.25 173.20 <b>1162.58</b>		
				<i>Khari</i>	895.61	372 373 374 377 378 379 <b>Total</b>	152.20 103.21 158.42 161.87 218.07 101.84 <b>895.61</b>				
				<i>Tembru</i>	1045.86	369 370 371 381 382 388 <b>Total</b>	169.56 206.65 138.70 157.95 186.80 186.20 <b>1045.86</b>				
				<i>Pipliya</i>	916.13	380 383 384 385 386 387 <b>Total</b>	220.54 131.58 123.08 138.63 154.79 147.51 <b>916.13</b>				
				Anjangaon H.Q. Anjangaon	14182.96	<i>Tembrusonda</i>	6449.93	<i>Khongda</i>	1321.52	949 950 952 953 954 955 <b>Total</b>	209.20 141.42 257.40 266.30 206.40 240.80 <b>1321.52</b>

Name Of Range With Hq.	Area	Name Of Round With Hq.	Area	Name Of Beat With Hq.	Area	Compt. No.	Area
1	2	3	4	5	6	7	8
Anjangaon H.Q. Anjangaon	14182.96			Giroti	2440.25	951	230.16
						1041	282.00
						1050	294.20
						1051	259.00
						Ex. Jahagir	
						Jamil	317.33
						Giroti	660.06
						Ambapati	306.29
						Tekada	91.21
						Naqzira	
						<b>Total</b>	<b>2440.25</b>
				Ambapati	739.70	1052	271.50
						1053	157.00
						1054	311.20
						<b>Total</b>	<b>739.70</b>
				Tembrusonda	1984.46	1055	203.10
						1056	201.90
						1058	270.38
						Ex. Jahagir	
						Kundi	205.66
						Sakhari- Chikhalpati	52.81
						Satti/Ruip	296.98
						Chaourmal	532.63
						Dharmdoh	185.00
		Dahigaon	4825.78	Satti	800.04	1057	316.04
						1059	170.25
						1060	151.80
						1069	161.95
						<b>Total</b>	<b>800.04</b>
				Khairpani	1132.49	1062	212.88
						1067	282.31
						1068	322.90
						1070	314.40
						<b>Total</b>	<b>1132.49</b>
				Sawarpani	1865.74	1063	172.73
						1064	250.34
						1065	200.67
						1066	238.70
						C Class	958
						Chinchona	
						5,6,7,8	
						<b>Total</b>	<b>1865.74</b>
				Chinchona	1027.51	1047	270.30
						1048	282.90
						1049	228.60
						1061	245.71
						<b>Total</b>	<b>1027.51</b>

Name Of Range With Hq.	Area	Name Of Round With Hq.	Area	Name Of Beat With Hq.	Area	Compt. No.	Area
1	2	3	4	5	6	7	8
Anjangaon H.Q. Anjangaon	14182.96	Khairkund	2907.25	Pandhara Khadak	1200.72	1035	210.62
						1036	189.40
						1037	158.60
						1038	184.90
						1039	245.60
				1040	211.60		
						<b>Total</b>	<b>1200.72</b>
				East Khirkund	863.20	1042	243.60
						1044	226.20
						1045	223.40
1046	170.00						
		<b>Total</b>	<b>863.20</b>				
West Khairkund	843.33	1033	372.32				
		1034	218.10				
		1043	252.91				
				<b>Total</b>	<b>843.33</b>		

### ABSTRACT

Sr. No.	Name Of Range	Area In Hect A & C Class Forest	Area in ha. Protected Forest	No. Of Rounds	No. Of Beats	No. Of Compartments.
1	Chikhaldhara	10956.22	-	3	11	44
2	Ghatang	12808.84	-	3	12	62
3	Jarida	18127.97	16.60	5	19	111
4	Anjangaon	14182.96	4.47	3	11	49
<b>Total</b>		<b>56075.99</b>	<b>21.07</b>	<b>14</b>	<b>53</b>	<b>266</b>
<b>G.Total</b>		<b>56097.06</b>				



## Appendix IX

### List Of Officers Who Held Charge Of East Melghat Division

Sr. No.	Name of Officer	Designation	Period	
			From	To
1	Shri V.K. Sarwate	Deputy Conservator of Forests	01/04/64	08/05/64
2	Shri A.R. Moon	Deputy Conservator of Forests	09/05/64	14/07/68
3	Shri A.M. Patwardhan	Deputy Conservator of Forests	15/07/68	20/04/69
4	Shri A.D. Meshram	Deputy Conservator of Forests	21/04/69	30/09/70
5	Shri R.S. Gandle	Assistant Conservator of Forests	01/10/70	03/02/71
6	Shri R.N. Indurkar	Deputy Conservator of Forests	04/02/71	16/08/73
7	Shri V.K. Prabhu	Deputy Conservator of Forests	17/08/73	20/04/76
8	Shri A.R. Bapat	Deputy Conservator of Forests	21/04/76	24/04/79
9	Shri B.K. Haldhar	Deputy Conservator of Forests	25/04/79	28/01/81
10	Shri B.K. Singh	Deputy Conservator of Forests	29/01/81	13/06/83
11	Shri S.N. Bande	(Additional Charge)	14/06/83	11/07/83
12	Shri B. Mujumdar	(Additional Charge)	12/07/83	15/08/89
13	Shri S.W. Vaidhya	(Additional Charge)	16/08/84	01/09/84
14	Shri V.R. Singh	(Additional Charge)	02/09/84	17/11/84
15	Shri S.W.H. Naquvi	Deputy Conservator of Forests	18/11/84	09/07/87
16	Shri Dr. Anmol Kumar	Deputy Conservator of Forests	09/07/87	12/04/90
17	Shri Jarnel Singh	Deputy Conservator of Forests	13/04/90	23/6/94
18	Shri D.B. Bharti	Deputy Conservator of Forests	24/06/94	31/08/94
19	Shri Chandrakant Khade	Deputy Conservator of Forests	01/09/94	26/11/96
20	Shri Pravin Shrivastav	Deputy Conservator of Forests	27/11/96	25/06/2000
21	Shri I.P. Kharat	Deputy Conservator of Forests	26/06/2000	12/04/2003
22	Shri M. Karunakaran	Deputy Conservator of Forests	15/04/2003	04/07/2003
23	Shri A.J. Kamble	Deputy Conservator of Forests	05/07/2003	16/07/2004
24	Shri. Praveen Chavhan	Deputy Conservator of Forests	16/07/2004	30/04/2007
25	Shri. Pravin Shrivastav	Deputy Conservator of Forests	07/05/2007	05/03/2009
26	Shri. V.C.Ben	Deputy Conservator of Forests	06/03/2009	21/07/2010
27	Shri. Vivek Khandekar	Deputy Conservator of Forests	24/08/2010	17/11/2011
28	Shri.Jitendra Ramgaonkar	Deputy Conservator of Forests	17/11/2011	06/07/2014
29	Shri.Yuvaraj .S.	Deputy Conservator of Forests	07/07/2014	Till date



## Appendix No. X

### List Of Old Teak Plantations/ List Of Miscellaneous Plantations Along With Area And Location, Compartment/ Survey Numbers

#### (a)Teak Plantations

<b>Sr. No.</b>	<b>Year</b>	<b>Compartment No.</b>	<b>Range</b>	<b>Area in ha.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	1955	79	Ghatang	2.8
2	1956	79	Ghatang	2.8
3	1956	441	Jarida	3.2
4	1957	80	Ghatang	4
5	1958	80	Ghatang	5.3
6	1958	366	Jarida	4
7	1958	61	Ghatang	2.8
8	1959	366	Jarida	8.1
9	1960	73	Ghatang	4
10	1960	368	Jarida	7.3
11	1960	79	Ghatang	4
12	1961	73	Ghatang	8.1
13	1961	366	Jarida	2
14	1962	79	Ghatang	2
15	1962	80	Ghatang	4
16	1963	91	Ghatang	10.1
17	1964	91	Ghatang	8.1
18	1965	91	Ghatang	2.4
19	1965	85	Ghatang	13.8
20	1967	91	Ghatang	18.2
21	1967	85	Ghatang	24.3
22	1967	63	Ghatang	6.1
23	1968	366	Jarida	8.9
24	1969	83	Ghatang	14.2
25	1970	91	Ghatang	20.2
26	1971	84	Ghatang	20
27	1972	84	Ghatang	20
28	1975	433	Jarida	5
29	1976	404	Jarida	3
30	1976	433	Jarida	5
31	1977	436	Jarida	5
32	1977	382	Jarida	5
33	1977	433	Jarida	5
34	1978	438	Jarida	5

<b>Sr. No.</b>	<b>Year</b>	<b>Compartment No.</b>	<b>Range</b>	<b>Area in ha.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
35	1978	378	Jarida	5
36	1978	425	Jarida	5
37	1979	393	Jarida	5
38	1979	416	Jarida	6
39	1979	393	Jarida	5
40	1979	383,387	Jarida	5
41	1980	373	Jarida	10
42	1980	386	Jarida	5
43	1980	385	Jarida	5
44	1980	90	Ghatang	15
45	1981	385	Jarida	20
46	1987	337	Jarida	18
47	1987	90	Ghatang	50
			<b>G. Total</b>	<b>417.7</b>

**(b) Miscellaneous Plantations**

<b>Sr. No.</b>	<b>Year</b>	<b>Compt. No.</b>	<b>Area In Ha.</b>			<b>Remark</b>
			<b>Bamboo</b>	<b>Others</b>	<b>Total</b>	
<b>1</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	1994	22	0	60	60	
2	1994	17	0	60	60	
3	1994	36	0	80	80	
4	1994	370	0	25	25	
5	1994	452	0	25	25	
6	1994	3	0	25	25	
7	1994	28	0	25	25	
8	1994	1059	0	25	25	
9	1994	1056/55	0	50	50	
10	1994	1056/58	0	50	50	
11	1994	1065/70	0	50	50	
12	1994	1065/66	0	50	50	
13	1994	1067/68	0	25	25	
14	1994	1033	0	25	25	
15	1994	79	0	50	50	
16	1994	341	0	24	24	Under EGS
17	1994	433	0	25	25	Under EGS
	<b>Total</b>		<b>0</b>	<b>674</b>	<b>674</b>	

Sr. No.	Year	Compt. No.	Area In Ha.			Remark
			Bamboo	Others	Total	
1	3	2	4	5	6	7
18	1995	49	50	0	50	
19	1995	18	50	0	50	
20	1995	451	50	0	50	
21	1995	387	50	0	50	
22	1995	456	50	0	50	
23	1995	1067	50	0	50	
24	1995	6	0	50	50	
25	1995	53	0	50	50	
26	1995	63	0	50	50	
27	1995	1061	0	50	50	
28	1995	1055	0	50	50	
29	1995	206	50	0	50	Under EGS
	<b>Total</b>		<b>350</b>	<b>250</b>	<b>600</b>	
30	1996	27	25	0	25	
31	1996	382	50	0	50	
32	1996	394	50	0	50	
33	1996	435	50	0	50	
34	1996	204	25	0	25	
35	1996	205	50	0	50	
36	1996	207	25	0	25	
37	1996	17	0	50	50	
38	1996	19,20	0	50	50	
39	1996	3	0	50	50	
40	1996	8	25	0	25	
41	1996	9	25	0	25	
42	1996	62	25	0	25	
43	1996	374	25	0	25	
44	1996	361	25	0	25	
45	1996	995	0	(A) 8.55	(A) 8.55	
46			0	(B) 13.64	(B) 13.64	
47	1996	1045	0	(A) 23.60	(A) 23.60	
			0	(B) 35.00	(B) 35.00	
48	1996	1067	0	6	6	
49	1996	1061	0	(A) 6.38	(A) 6.38	
			0	(B) 14.00	(B) 14.00	
50	1996	8 B	0	3	3	
	1996		0	12.2	12.2	
	1996		0	15	15	
51	1996	955	0	(A) 9.34	(A) 9.34	
			0	(B) 22.19	(B) 22.19	
52	1996	1044	0	(A) 40.00	(A) 40.00	
				(B) 46.50	(B) 46.50	
53	1996	1065	0	(A) 7.92	(A) 7.92	
			0	(B) 17.25	(B) 17.25	
54	1996	1060	0	(A) 7.17	(A) 7.17	
			0	(B) 31.25	(B) 31.25	
55	1996	16 P	0	8.93	8.93	
			0	29.25	29.25	
56	1996	28	0	0.90	0.90	
57	1996	164	50	0	50	Under EGS
58	1996	386	25	0	25	Under EGS
59	1996	198	25	0	25	Under EGS
	<b>Total</b>		<b>500</b>	<b>508.07</b>	<b>1008.07</b>	

Sr. No.	Year	Compt. No.	Area In Ha.			Remark
			Bamboo	Others	Total	
1	3	2	4	5	6	7
60	1997	40	25	0	25	
61	1997	4	25	0	25	
62	1997	39	25	0	25	
63	1997	31	25	0	25	
64	1997	30	25	0	25	
65	1997	343	50	0	50	
66	1997	376	25	0	25	
67	1997	397	25	0	25	
68	1997	391	50	0	50	
69	1997	392	50	0	50	
70	1997	393	25	0	25	
71	1997	65	25	0	25	
72	1997	204	50	0	50	
73	1997	205	50	0	50	
74	1997	298	50	0	50	
75	1997	361	0	2	2	
76	1997	361	0	2	2	
77	1997	373	0	25	25	
78	1997	954	0	10	10	
79	1997	1046	0	(A) 10	(A) 10	
			0	(B) 10	(B) 10	
80	1997	1065	0	(A) 5	(A) 5	
			0	(B) 8	(B) 8	
81	1997	1060	0	(A) 4	(A) 4	
			0	(B) 25	(B) 25	
82	1997	P-16	0	(A) 3	(A) 3	
			0	(B) 26	(B) 26	
83	1997	8B	0	3.00	3.00	
		<b>Total</b>	<b>525</b>	<b>133</b>	<b>658</b>	
84	1998	14	25	0	25	
85	1998	44	25	0	25	
86	1998	389	50	0	50	
87	1998	372	50	0	50	
88	1998	395	50	0	50	
89	1998	390	50	0	50	
90	1998	203	50	0	50	
91	1998	298	25	0	25	
92	1998	299	25	0	25	
93	1998	14	0	25	25	
94	1998	23	0	25	25	
95	1998	S.N.8	0	25	25	
96	1998	953	0	14	14	
97	1998	1041	0	18	18	
98	1998	1069	0	3	3	
99	1998	1061	0	10	10	
100	1998	16P	0	(A) 83	(A) 83	
			0	(B) 25	(B) 25	
101	1998	8	0	37	37	
102	1998	349	25	0	25	Under EGS
103	1998	361	25	0	25	Under EGS
104	1998	362	25	0	25	Under EGS
105	1998	362	0	50	50	
106	1998	409	0	25	25	

Sr. No.	Year	Compt. No.	Area In Ha.			Remark
			Bamboo	Others	Total	
1	3	2	4	5	6	7
107	1998	66	0	50	50	
108	1998	69	0	50	50	
109	1998	10	0	50	50	
110	1998	9	0	50	50	
111	1998	51	0	50	50	
	<b>Total</b>		<b>425</b>	<b>590</b>	<b>1015</b>	
112	1999	368	25	0	25	
113	1999	202	25	0	25	
114	1999	80	50	0	50	
115	1999	1070	0	25	25	
116	1999	40	25	0	25	
117	1999	8	25	0	25	
118	1999	1067	25	0	25	
119	1999	80	0	30	30	
120	1999	53	0	30	30	
121	1999	449	0	50	50	
122	1999	953	0	(A) 4	(A) 4	
			0	(B) 20	(B) 20	
123	1999	1053	0	(A) 8	(A) 8	
			0	(B) 25	(B) 25	
124	1999	16 P	0	10	10	
125	1999	1036	0	14	14	
126	1999	32	0	20	20	
127	1999	13	0	20	20	
128	1999	4	0	20	20	
129	1999	80	0	30	30	
130	1999	953	0	30	30	
131	1999	55	0	20	20	
132	1999	53	0	10	10	
133	1999	82	0	20	20	
134	1999	79	0	25	25	
135	1999	51	0	25	25	
136	1999	432	0	50	50	
	<b>Total</b>		<b>175</b>	<b>486</b>	<b>661</b>	
137	2000	339	25	0	25	
138	2000	438	50	0	50	
139	2000	367	25	0	25	
140	2000	201	50	0	50	
141	2000	955	25	0	25	
142	2000	952	25	0	25	
143	2000	1061	0	25	25	
144	2000	S.N.1	0	50	50	
145	2000	1069	0	25	25	
146	2000	16	0	50	50	
147	2000	23	0	50	50	
148	2000	5	0	25	25	
149	2000	23	0	25	25	
150	2000	50	0	50	50	
151	2000	456	25	0	25	
152	2000	344	50	0	50	
153	2000	450	25	0	25	
154	2000	424	25	0	25	

Sr. No.	Year	Compt. No.	Area In Ha.			Remark
			Bamboo	Others	Total	
1	3	2	4	5	6	7
155	2000	352	25	0	25	
156	2000	436	50	0	50	
157	2000	364	25	0	25	
158	2000	341	25	0	25	
	<b>Total</b>		<b>450</b>	<b>300</b>	<b>750</b>	
159	2001	S.N.133	0	16.6	16.6	
160	2001	20	0	4.47	4.47	
161	2001	32	25	0	25	Under EGS
162	2001	16	50	0	50	Under EGS
163	2001	791	50	0	50	Under EGS
164	2001	28	25	0	25	Under EGS
165	2001	24	25	0	25	Under EGS
166	2001	64	0	25	25	
167	2001	02	0	25	25	
168	2001	198	0	50	50	
169	2001	195	0	50	50	
170	2001	81	0	25	25	
	<b>Total</b>		<b>175</b>	<b>196.07</b>	<b>371.07</b>	
171	2002	439	50	0	50	
172	2002	439	25	0	25	
173	2002	442	25	0	25	
174	2002	439	50	0	50	
175	2002	408/ 409	100	0	100	
176	2002	349	25	0	25	
177	2002	384	66	0	66	
178	2002	384	24	0	24	
179	2002	378	21	0	21	
180	2002	378	14	0	14	
181	2002		25	0	25	
182	2002	1067	25	0	25	
183	2002	1043	25	0	25	
184	2002	23	0	50	50	
185	2002	1047	25	0	25	
186	2002	39	25	0	25	
187	2002	8	25	0	25	
188	2002	413	25	0	25	
189	2002	435	25	0	25	
190	2002	437	25	0	25	
191	2002	339	25	0	25	
192	2002	388	25	0	25	Under EGS
193	2002	378	25	0	25	
194	2002	344	25	0	25	
195	2002	451	25	0	25	
196	2002	3	25	0	25	
197	2002	67	25	0	25	
198	2002	56	25	0	25	
199	2002	68	25	0	25	
200	2002	207	25	0	25	
201	2002	197	25	0	25	
202	2002	200	25	0	25	
203	2002	1066	25	0	25	

Sr. No.	Year	Compt. No.	Area In Ha.			Remark
			Bamboo	Others	Total	
1	3	2	4	5	6	7
204	2002	349	25	0	25	
205	2002	408	25	0	25	
206	2002	442	25	0	25	
207	2002	439	25	0	25	
208	2002	384	25	0	25	
	<b>Total</b>		<b>1075</b>	<b>50</b>	<b>1125</b>	



## Appendix No. XI

## ( a ) List Of Buildings In Charge Of Forest Department

Sr. No.	Range	Quarter No.	Name of Building	Place	Date of construction / purchase	Cost	Nature of Building			Remark
							Walls	Roof	Floor	
1	2	3	4	5	6	7	8	9	10	11
1	Jarida	-	R.A. Quarter	Khari	1966/67	Rs. 7661	Bricks in MM	Country Tiles	IPC floor	
2	Jarida	-	R.A. Quarter	Biba			Bricks in MM	Country Tiles	IPC floor	
3	Jarida	-	F.G. Quarter	Jarida	1966-67	Rs.7,660.59	Bricks in MM	Country Tiles	IPC floor	
4	Jarida	-	F.G. Quarter	Jarida			Bricks in MM	Country Tiles	IPC floor	
5	Jarida	-	F.G. Quarter	Bordha			Bricks in MM	Country Tiles	IPC floor	
6	Jarida	-	F.G. Quarter	Khari			Bricks in MM	Country Tiles	IPC floor	
7	Jarida	-	F.G. Quarter	Rahu			Bricks in MM	Country Tiles	IPC floor	
8	Jarida	-	F.G. Quarter	Biba			Bricks in MM	Country Tiles	IPC floor	
9	Jarida	-	F.G. Quarter	Bodu	1966-67	Rs. 5168.39	Bricks in MM	Country Tiles	IPC floor	
10	Jarida	-	F.G. Quarter	Butida	1966-67	Rs. 5063.40	Bricks in MM	Country Tiles	IPC floor	
11	Jarida	-	P.V. Quarter	Lakhewada	1927-28		Bricks in MM	Country Tiles	IPC floor	
12	Jarida	-	P.V. Quarter	Jarida			Bricks in MM	Country Tiles	IPC floor	
13	Jarida	-	R.F.O. Halting Shed	Jarida	1950	Rs. 1900.00	Bricks in MM	Country Tiles	Shahabadi stone	
14	Jarida	-	Mahavat's Quarter	Jarida	-	-	Bricks in MM	Country Tiles	IPC floor	
15	Ghatang	-	R.A. Quarter	Bihali	1918-19	Rs. 455.75	Bricks in MM	Country Tiles	Mud flooring	
16	Ghatang	-	R.A. Quarter	Bhawai	1966-67	Rs. 8987.60	Bricks in MM	Country Tiles	Mud flooring	
17	Ghatang	-	F.G. Quarter	Bihali	-	-	Bricks in MM	Country Tiles	Mud flooring	
18	Ghatang	-	F.G. Quarter	Bihali	-	-	Bricks in MM	Country Tiles	Mud flooring	
19	Ghatang	-	F.G. Quarter	Salona	-	-	Bricks in MM	Country Tiles	Mud flooring	
20	Ghatang	-	F.G. Quarter	Ghatang	-	-	Bricks in MM	Country Tiles	Mud flooring	
21	Ghatang	-	F.G. Quarter	Bhawai	-	-	Bricks in MM	Country Tiles	Mud flooring	
22	Ghatang	-	P.V. Quarter	Bihali	-	-	Bricks in MM	Country Tiles	Mud flooring	
23	Jarida	-	F.G. Quarter	Ektai	1966-67	Rs. 6,068.21	Bricks in MM	Country Tiles	IPC floor	
24	Jarida	-	Wireless station	Jarida	1974-75	Rs. 5662	Bricks in C.M.	Manglore tiles	IPC floor	
25	Jarida	-	Checking Naka	Doma			Bricks in C.M.	Manglore tiles	IPC floor	
26	Chikhaldara	-	DCF Bunglow Peach grove	Chikhaldara	-	-	Bricks in L.M.	Manglore tiles	Shahabad stone	
27	Chikhaldara	-	Anexi to peach grove	Chikhaldara	-	-	Bricks in L.M.	Country tiles	Shahabad stone	
28	Chikhaldara		Motor shed to peach grove	Chikhaldara	1936-37	Rs. 1,585.78	Bricks in M.M.	A.C. sheets	Mud floor	
29	Chikhaldara	3/ 66-67	A. C. F. Quarter Type III - II Unit	Chikhaldara	1964-65, 65-66,66-67	Rs. 23,824.41	Bricks in C.M.	Manglore tiles	Shahabad stone	358.229 Sq. Ft.
30	Chikhaldara	8/ 19-20	Residential II unit Quarter	Chikhaldara	1919-20	Rs. 8,331	Bricks in M.M.	G. I. sheets	Shahabad stone	78.90 Sq. Ft.
31	Chikhaldara	17/ 37-38	Out house Residential Quarter	Chikhaldara	1937-38	Rs. 14,130	Bricks in M.M.	A.C. sheets	Shahabad stone	96.00 Sq. Ft.
32	Chikhaldara	18/ 08-09	Single unit no. 14	Chikhaldara	1908-09	Rs. 5,193	B. B. M.	A.C. sheets	Shahabad stone	53.45 Sq. Ft.

Sr. No.	Range	Quarter No.	Name of Building	Place	Date of construction / purchase	Cost	Nature of Building			Remark
							Walls	Roof	Floor	
1	2	3	4	5	6	7	8	9	10	11
33	Chikhaldara	19/ 08-09	Out House Residential IV Unit	Chikhaldara	1908-09	Rs. 10,175	Bricks in M.M.	G. I. sheets	Shahabad stone	110.71 Sq. Ft.
34	Chikhaldara	20/ 64-65	Melgini Building	Chikhaldara	1964-65	Rs. 23,824	Bricks in C.M.	Manglore tiles	Shahabad stone	120.67 Sq. Ft.
35	Chikhaldara	21/ 24-25	Residential Quarter IV Unit	Chikhaldara	1924-25	Rs. 18,666	Bricks in M.M.	G. I. sheets	Shahabad stone	147.92 Sq. Ft.
36	Chikhaldara	22/ 08-09	Residential Quarter II Unit	Chikhaldara	1908-09	Rs. 7290	Bricks in M.M.	G. I. sheets	Shahabad stone	138.22 Sq. Ft.
37	Chikhaldara	24/ 38-39	Tent godown cum Residential Quarter	Chikhaldara	1938-39	Rs. 15,063	Bricks in M.M.	A.C. sheets	Shahabad stone	114.81 Sq. Ft.
38	Chikhaldara	26	II Unit L. S. of Forest Park	Chikhaldara	1936-37	Rs. 7,950	Bricks in M.M.	G. I. sheets	Mud flooring	134.25 Sq. Ft.
39	Chikhaldara	29	Breside Tenexy	Chikhaldara	-	-	Bricks in C.M.	G. I. sheets	IPC	84.87 Sq. Ft.
40	Chikhaldara	29	Wireless Station	Chikhaldara	-	-	Bricks in C.M.	RCC slab	Shahabad stone	160.56 Sq. Ft.
41	Chikhaldara	1	Amzari Quarter	Amzari	1970-71	Rs. 8,100	Bricks in C.M.	Manglore Tiles	IPC floor	600.00 Sq. Ft.
42	Chikhaldara	3	Amzari Quarter	Amzari	1971-72	Rs. 9,015	Bricks in C.M.	Manglore Tiles	IPC floor	-
43	Chikhaldara	27	Division Office	Chikhaldara	1934-35, 36-37	-	Bricks in M.M.	Manglore Tiles	Shahabad stone	456.70 Sq. Ft.
44	Chikhaldara	1/D	Paid Vendor Quarter	Dhamangao	1926-27	-	Bricks in M.M.	Manglore Tiles	Shahabad stone	236.25 Sq. Ft.
45	Chikhaldara	3/D	Check Post Dhamangao	Dhamangao	-	-	Bricks in C.M.	Manglore Tiles	Shahabad stone	31.18 Sq. Ft.
46	Chikhaldara	4/D	II Unit at Dhamangao	Dhamangao	1985-86	-	Bricks in C.M.	Manglore Tiles	Shahabad stone	71.44 Sq. Ft.
1	2	3	4	5	6	7	8	9	10	11
47	Chikhaldara	5/D	III Unit at Manbhang	Manbhang	-	-	Bricks in C.M.	Manglore tiles	Shahabad stone	112.24 Sq. Ft.
48	Chikhaldara	a/1	F. G. Quarter	Wastapur	1927-28	Rs. 450	Bricks in M.M.	Manglore tiles	Shahabad stone	43.7 Sq.M.
49	Chikhaldara	W/3	I Unit Quarter	Wastapur	1965-66	8,500	Bricks in C.M.	Manglore tiles	Shahabad stone	62.8 Sq. M.
50	Chikhaldara	W/2	F. G. Quarter	Wastapur	-	-	Bricks in C.M.	Manglore tiles	Mud floor	64.71 Sq. M.
51	Chikhaldara	W/4	F. G. Quarter I Unit	Wastapur	1981	-	Bricks in C.M.	Manglore tiles	Shahabad stone	58.5 Sq. M.
52	Chikhaldara	1	II Unit L. S. Chikhaldara	Chikhaldara	1987-88	17,171	Bricks in C.M.	Manglore tiles	Shahabad stone	79.12 Sq. M.
53	Chikhaldara	2	8 Unit at Chikhaldara	Chikhaldara	1966-67	64,000	Bricks in C.M.	Manglore tiles	Shahabad stone	437.25 Sq. M.
54	Chikhaldara	4/37-38	R. O. Chikhaldara	Chikhaldara	1937-38	12,347	Bricks in M.M.	A. C. Sheets	Shahabad stone	97.75 Sq. M.
55	Chikhaldara	51/1924-25	Resd.Qt. II Unit	Chikhaldara	1924-25	10,088	Bricks in M.M.	A. C. Sheets	Shahabadi clay	128.52 Sq. M.
56	Chikhaldara	6/38-39	Resd.Qt. II Unit Attached to RFO quarter	Chikhaldara	1938-39	7090	Bricks in M.M.	G.I. Sheets	Shahabadi stone	48.67 Sq. M.
57	Chikhaldara	7/37-38	RFO Qt. Chikhaldara	Chikhaldara	1938-38	27309	Bricks in M.M.	G.I. Sheets	Shahabadi stone	248.85 Sq. M.
58	Chikhaldara	9/05-06	Range Office Chikhaldara	Chikhaldara	1905-06	5986	Bricks in M.M.	G.I. Sheets	Shahabadi stone	70.28 Sq. M.
59	Chikhaldara	10/21-22	R.C. Qt. Chikhaldara	Chikhaldara	1921-22	13,733	Bricks in M.M.	G.I. Sheets	Cement Floring	120.15 Sq. M.
60	Chikhaldara	11/86-87	R.Qt. 2 unit	Chikhaldara	1986-67	16,211	Bricks in M.M.	G.I. Sheets	Shahabadi stone	187.70 Sq. M.
61	Chikhaldara	12/86-87	R.Qt. 2 unit	Chikhaldara	1986-87	12,820	Bricks in M.M.	G.I. Sheets	Shahabadi stone	147.63 Sq. M.
62	Chikhaldara	13/86-87	R.Qt. 2 unit	Chikhaldara	1986-87	12,839	Bricks in M.M.	G.I. Sheets	Shahabadi stone	147.63 Sq. M.
63	Chikhaldara	14/19-20	R.Qt. 3 unit	Chikhaldara	1919-20	26,761	Bricks in M.M.	G.I. Sheets	Shahabadi stone	235.31 Sq. M.
1	2	3	4	5	6	7	8	9	10	11
64	Chikhaldara	15/06-07	R.Qt. 2 unit	Chikhaldara	1906-07	12,784	Bricks in M.M.	G.I. Sheets	Shahabadi stone	146.74 Sq. M.
65	Chikhaldara	34/88-89	1 unit L.S. chikhaldara	Chikhaldara	1988-89	40,000	Bricks in M.M.	Manglori Tiles	Shahabadi stone	23.31 Sq. M.
66	Anjangoan	-	Forest Guards Qt. Ambapati 2 unit	Ambapati	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
67	Anjangoan	-	Forest Guards Qt. Phandrakhadak 2 unit	Phandrakhadak	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.

Sr. No.	Range	Quarter No.	Name of Building	Place	Date of construction / purchase	Cost	Nature of Building			Remark
							Walls	Roof	Floor	
1	2	3	4	5	6	7	8	9	10	11
68	Anjangoan	-	Forest Guards Qt. Chinchona, 2 unit	Chinchona	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
69	Anjangoan		Forest Guards Qt. Sawarpani, 2 unit	Sawarpani	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
70	Anjangoan		Forest Guards Qt. Tembrusonda, 2 unit	Tembrusonda	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
71	Anjangoan		Forest Guards Qt. Dahegaon, 2 unit	Dahegaon	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
72	Anjangoan		Forest Guards Qt. Khirpani, 2 unit	Khirpani	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
73	Anjangoan		Forest Guards Qt. Khongada, 2 unit	Khongada	-	N.A.	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
74	Anjangoan		Forester's Quarter, Khairkund, 1 unit	Khairkund	-	N.A.	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
75a	Anjangoan		Forester's Quarter, Tembrusonda, 1 unit	Tembrusonda	-	N.A.	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
75b	Anjangoan		Forester's Quarter, Dahegaon, 1 unit	Dahegaon	-	N.A.	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
76	Jarida		Type II	Khari	31-03-95	1.28 lac	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
77	Jarida		Type I	Piplaya	31-03-95	1.00 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone	36.36 Sq. M.
78	Jarida		Type III	Jarida	28-07-97	2.47 lac	Bricks in C.M.	R.C.C. Slab	Mosaic tiled floor	66.24 Sq. M.
79	Jarida		Type I	Bhandum	31-12-97	1.43 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
80	Jarida		Type I	Chobita	31-03-98	1.51 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
81	Jarida		Type I	Masondi	30-12-97	1.63 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
82	Ghatang		Type I	Makhala	29-03-95	1.00 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
83	Ghatang		Type I	Salona	29-03-95	1.15 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
84	Ghatang		Type I	Ghatang	31-03-95	1.04 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
85	Ghatang		Type I	Bihali	31-03-95	1.04 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
86	Ghatang		Forester's Quarter, Dahegaon, 1 unit	Dahegaon	-		Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
87	Jarida		Type II	Khari	31-03-95	1.28 lac	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
88	Jarida		Type I	Piplaya	31-03-95	1.00 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
89	Jarida		Type III	Jarida	28-07-97	2.47 lac	Bricks in C.M.	R.C.C. Slab	Mosaic tiled floor	66.24 Sq. M.
90	Jarida		Type I	Bhandum	31-12-97	1.43 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
91	Jarida		Type I	Chobita	31-03-98	1.51 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
92	Jarida		Type I	Masondi	30-12-97	1.63 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.

Sr. No.	Range	Quarter No.	Name of Building	Place	Date of construction / purchase	Cost	Nature of Building			Remark
							Walls	Roof	Floor	
1	2	3	4	5	6	7	8	9	10	11
93	Ghatang		Type I	Makhala	29-03-95	1.00 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
94	Ghatang		Type I	Salona	29-03-95	1.15 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
95	Ghatang		Type I	Ghatang	31-03-95	1.04 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
96	Ghatang		Type I	Bihali	31-03-95	1.04 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
97	Ghatang		Forester's Quarter, Dahegaon, 1 unit	Dahegaon	-	N.A.	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
98	Jarida		Type II	Khari	31-03-95	1.28 lac	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
99	Jarida		Type I	Piplaya	31-03-95	1.00 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
100	Jarida		Type III	Jarida	28-07-97	2.47 lac	Bricks in C.M.	R.C.C. Slab	Mosaic tiled floor	66.24 Sq. M.
101	Jarida		Type I	Bhandum	31-12-97	1.43 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
102	Jarida		Type I	Chobita	31-03-98	1.51 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
103	Jarida		Type I	Masondi	30-12-97	1.63 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
104	Ghatang		Type I	Makhala	29-03-95	1.00 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
105	Ghatang		Type I	Salona	29-03-95	1.15 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
106	Ghatang		Type I	Ghatang	31-03-95	1.04 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
107	Ghatang		Type I	Bihali	31-03-95	1.04 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
108	Ghatang		Forester's Quarter, Dahegaon, 1 unit	Dahegaon	-	N.A.	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
109	Jarida		Type II	Khari	31-03-95	1.28 lac	Bricks in C.M.	R.C.C. Slab	IPC floor	50.06 Sq. M.
110	Jarida		Type I	Piplaya	31-03-95	1.00 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
111	Jarida		Type III	Jarida	28-07-97	2.47 lac	Bricks in C.M.	R.C.C. Slab	Mosaic tiled floor	66.24 Sq. M.
112	Jarida		Type I	Bhandum	31-12-97	1.43 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
113	Jarida		Type I	Chobita	31-03-98	1.51 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
114	Jarida		Type I	Masondi	30-12-97	1.63 lac	Bricks in C.M.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
115	Ghatang		Type I	Makhala	29-03-95	1.00 lac	B.B. Masonary in CM.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
116	Ghatang		Type I	Salona	29-03-95	1.15 lac	B.B. Masonary in CM.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
117	Ghatang		Type I	Ghatang	31-03-95	1.04 lac	B.B. Masonary in CM.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.
118	Ghatang		Type I	Bihali	31-03-95	1.04 lac	B.B. Masonary in CM.	R.C.C. Slab	Shahabadi stone floor	36.36 Sq. M.

**(B) List Of Rest Houses, Circuit Houses, Forest Rest Houses, Inspection Huts,  
Tourist Bungalows In East Melghat Division, Chikhaldara**

<b>Sr. No.</b>	<b>Taluka</b>	<b>Place</b>	<b>Type</b>	<b>Accommodation</b>	<b>Ownership</b>
1	Chikhaldara	Chikhaldara	V VI III III III III III	5 Suits 11 Suits 2 Suits 4 Suits 4 Suits 15 Suits 4 Suits & Hall	Forest Department B & C M.S.E.B. Irrigation Department Zilla Parishad M.T.D.C Nagar Parishad
2	Chikhaldara	Ghatang	III		P.W.D
3	Chikhaldara	Jarida Rahu	II II		Forest Department Forest Department



**Appendix No. XII**

**Statement Showing The Outturn Of Non-Wood Forest Produce  
(Minor Forest Produce And Revenues Realised)**

<b>Year</b>	<b>Name of Species</b>	<b>Out turn (Std. Bags)</b>	<b>Revenue realized in Rs.</b>
90-91	Tendu	2,400.679	33,09,436
91-92		6,387.096	46,40,787
92-93		4,408.262	19,13,900
93-94		3,512.968	20,58,441
94-95		3,154.581	21,01,357
95-96		3,148.027	22,92,446
96-97		3,122.333	22,14,015
97-98		3,058.999	22,34,910
98-99		2,969.214	14,67,554
99-00		3,203.600	23,03,569
00-01		3,714.272	33,27,109
01-02		3,124.423	35,18,380
02-03		3,183.548	28,49,572
03-04		3,345.051	33,33,384
1990-91		Gum	151.54 Qtl.
1999-00 to 2003-04	-		No Collection
90-91	Hirda	780.05 Qtl.	3900.25
91-92		1879.27 Qtl.	9396.35
92-93		454.79 Qtl.	2273.35
93-94		137.94 Qtl.	689.70
1994-95 to 2003-04		-	Some of the revenue area included in the sanctuary



### Appendix No. XIII

#### Statement Showing The Annual Out-Turn Of Timber And Firewood And Revenue Realized.

Sr. No.	Year	Teak Cu.m.	Teak Poles Cu.m.	Haldu Round Cu.m.	Sajad Round Cu.m.	Adjat Cu.m.	Total
1	1991-92	1,584.110	47.788	38.323	44.481	-	1,714.702
2	1992-93	264.719	82.879	9.577	7.976	-	365.151
3	1993-94	2,536.241	54.008	88.302	71.142	-	2,749.693
4	1994-95	5,526.246	97.002	652.919	392.862	6.365	6,675.394
5	1995-96	2,068.560	70.580	139.128	97.442	8.430	2,384.140
6	1996-97	2,288.965	99.143	339.570	142.041	18.320	2,888.039
7	1997-98	4,633.141	104.695	647.593	182.653	4.228	5,572.310
8	1998-99	2,457.460	63.449	328.648	148.024	-	2,997.581
	FLCS	333.033	4.768	69.766	20.879	1.206	429.652
9	1999-00	2,757.636	86.780	237.146	184.267	1.818	3,267.647
	FLCS	607.787	7.997	19.734	38.107	-	673.625
10	2001-02	376.147	631 qty.	29.730	-	-	405.877
11	2002-03	383.578	533 qty.	29.231	-	-	412.809

Sr. No.	Year	Revenue in Rs.				
		Teak Timber	Haldu Timber	Sajad Timbr	Adjat Timbert	Teak pole
1	1991-92	NA	NA	NA	NA	NA
2	1992-93	NA	NA	NA	NA	NA
3	1993-94	NA	NA	NA	NA	NA
4	1994-95	NA	NA	NA	NA	NA
5	1995-96	NA	NA	NA	NA	NA
6	1996-97	NA	NA	NA	NA	NA
7	1997-98	4,92,54,590	37,37,500	6,37,580	-	13,88,015
8	1998-99	6,04,09,140	5,051,350	1,74,475	625	4,33,600
9	1999-00	5,26,39,910	11,62,310	1,67,380	200	1,82,295
	FLCS	26,64,050	1,52,875	6,900	-	3,000
10	2000-01	1,08,72,200	3,82,005	2,110	-	11,410
	FLCS	50,71,350	92,450	30,107	1307	8,575
11	2001-02	-	-	-	-	-
	FLCS	63,39,136	7,225	-	-	1,04,017
12	2002-03	64,26,285	68,520	-	16,438	3,51,615
	FLCS	60,37,385	1,15,700	22,410	-	88,785
13	2003-04	10,42,881	-	-	17,730	95,900
	FLCS	19,03,270	3275	13,325	10,550	20,290

**NA- Not Available**



**Appendix No. XIV**

**Statement Showing Total Revenue And Expenditure Of  
East Melghat Forest Division**

<b>Year</b>	<b>Revenue (Rs)</b>	<b>Expenditure (Rs.)</b>
2006-07	14440396	10971807
2007-08	8377801	21287469
2008-09	147828386	19535720
2009-10	83878068	15729243
2010-11	183219372	52138774
2011-12	168886244	51339832
2012-13	55281251	29611066
2013-14	52158951	19939424



**Appendix No. XV**  
**Results of Enumeration**

**STATEMENT -I**

**Estimated Growing Stock -No of sound trees**

**Period of Enumeration** 2003-2003

**Division** East Melghat

**Population area (ha):** 25644.89

**Working Circle : S.C.I. Working circle**

**Sample Area (ha):** 240.84

**Working Plan by :** Shri. M.K.Rao,C.F., Vinod Kumar, Dy.C.F., G.P.Garad, Dy.C.F.

**Intensity of Sampling** 0.939

Group	Species	Girth classwise classification in cms										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>A :-Species of General Utility</b>												
	Bija	1490.7	319.4	425.9	319.44	425.92	532.4	319.44	106.48	0	213	4152.76
	Lendia	112124	70277	46213	41954	36523	26514	12778	8305.5	5324	532.4	360545
	Shisam	2023.1	958.3	213	212.96	425.92	425.92	106.48	0	106.5	0	4472.2
	Sivan	1064.8	532.4	425.9	319.44	0	0	106.48	106.48	213	0	2768.51
	Teak	616844	515581	406544	421984	415915	371406	284091	168346	132782	16718	3350212
	Tiwas	40143	47916	44296	32477	17143	9050.9	2875	1703.7	532.4	0	196138
	Ain	30560	11606	10116	13523	18421	19593	17463	11181	15333	1704	149499
	<b>Total :</b>	<b>804251</b>	<b>677192</b>	<b>508233.8</b>	<b>510789</b>	<b>488854</b>	<b>427521.2</b>	<b>317739.3</b>	<b>189749.14</b>	<b>154290.96</b>	<b>19166.58</b>	<b>4067787.16</b>
<b>B :-Species of Special Utility</b>												
	Khair	4578.7	2981	1917	1171.3	1171.3	319.44	319.44	0	106.5	0	12564.8
	Salai	106.48	0	532.4	745.37	2236.1	3407.4	3726.8	3088	1491	532.4	15865.7
	Kalamb	9263.9	7028	5643	7027.8	6069.4	7347.2	4791.6	4259.2	4153	1171	56754.4
	Haldu	11606	7880	6282	8305.5	7240.7	9583.3	9050.9	7347.2	16505	3620	87420.9
	<b>Total :</b>	<b>25555.44</b>	<b>17888.8</b>	<b>14374.93</b>	<b>17249.9</b>	<b>16717.5</b>	<b>20657.31</b>	<b>17888.8</b>	<b>14694.38</b>	<b>22254.53</b>	<b>5324.04</b>	<b>172605.7</b>

Group	Species	Girth classwise classification in cms										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>C :-Species of Minor Forest Produce</b>												
	Arjun	638.89	958.3	425.9	319.44	212.96	0	532.4	425.92	1065	0	4578.68
	Biba	1810.2	1065	1278	1064.8	1703.7	851.85	851.85	212.96	213	0	9050.88
	Dhaman	24597	17356	10968	7773.1	5217.6	6495.3	4046.3	1703.7	1384	106.5	79647.8
	Chinch	106.48	0	0	0	0	0	0	106.48	0	0	212.96
	Chichawa	2129.6	1491	1065	1064.8	851.85	532.4	532.4	532.4	213	0	8412
	Char	3407.4	4046	4153	6069.4	6921.3	5430.5	3513.9	1064.8	958.3	319.4	35884.1
	Chandan	212.96	106.5	0	0	0	0	0	0	0	0	319.44
	Bor	5217.6	6176	2981	2023.1	638.89	212.96	319.44	212.96	0	0	17782.3
	Dhawada	19593	19380	28005	37801	39185	28430	17250	8625	12778	1704	212749
	Bhokar	319.44	106.5	0	212.96	0	0	0	0	0	0	638.89
	Bherra	1490.7	2769	5005	4578.7	2875	2662	1703.7	1277.8	851.9	745.4	23958.2
	Bel	6708.3	3194	4046	2981.5	3088	851.85	638.89	212.96	213	0	21935.1
	Behada	15227	9477	4366	2875	1916.7	1064.8	1064.8	1384.3	1171	851.9	39398
	Awala	37055	2662	21083	17143	13949	6708.3	3194.4	1597.2	1278	0	104671
	Ghogar(Papda)	425.92	213	0	0	0	0	0	0	0	0	638.89
	Apata/Bhosa	17037	23639	11287	4472.2	1277.8	532.4	212.96	106.48	0	0	58564.6
	Amba	425.92	213	106.5	106.48	0	0	0	0	0	106.5	958.33
	Bahava	92106	31305	5005	1064.8	212.96	212.96	319.44	106.48	106.5	0	130439
	Maharukh	0	0	106.5	0	212.96	106.48	106.48	212.96	0	0	745.37
	Umbar	745.37	851.9	1171	212.96	212.96	532.4	425.92	106.48	425.9	319.4	5004.61
	Tendu	78157	19805	7028	2875	2236.1	1171.3	106.48	106.48	213	106.5	111805
	Shiras	4472.2	2662	1065	1171.3	2555.5	745.37	958.33	212.96	106.5	213	14162

Group	Species	Girth classwise classification in cms										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
	Semal	3407.4	2343	851.9	745.37	1171.3	1064.8	958.33	212.96	638.9	425.9	11819.4
	Rohan	212.96	425.9	319.4	212.96	425.92	425.92	638.89	212.96	319.4	532.4	3726.84
	Pimpal	106.48	0	106.5	212.96	106.48	106.48	106.48	0	2236	745.4	3726.84
	Pangra	0	0	0	0	212.96	0	0	106.48	0	0	319.44
	Palas	10222	851.9	9051	7666.6	4578.7	2875	2342.6	1171.3	958.3	638.9	40356.3
	Padar	851.85	958.3	851.9	745.37	532.4	638.89	319.44	319.44	213	0	5430.53
	Others	109250	48875	24810	22042	23106	21616	17889	10009	9051	2662	289309
	Neem	106.48	106.5	106.5	0	0	0	0	0	0	0	319.44
	Mokha	745.37	638.9	1065	1810.2	1703.7	1277.8	532.4	425.92	638.9	106.5	8944.4
	Dhoban	4791.6	2556	2236	2555.5	2768.5	2875	2342.6	2342.6	3940	1065	27472.1
	Medsing	0	106.5	0	425.92	106.48	106.48	0	0	0	0	745.37
	Dudhi/ Kalkuda	193902	154078	78583	46426	20231	9157.4	3194.4	1490.7	532.4	213	507808
	Lokhandi	532.4	106.5	0	0	0	0	0	0	0	0	638.89
	Kusum	10542	4685	2556	3088	2875	2129.6	2129.6	958.33	2556	213	31731.3
	Kumbhi	43977	31305	25875	20977	11926	9050.9	4898.1	2342.6	2556	851.9	153759
	Kuda	106.48	0	0	0	106.48	106.48	0	0	0	0	319.44
	Karanj	532.4	319.4	0	106.48	212.96	106.48	0	0	0	0	1277.77
	Karai	47384	25875	11181	4898.1	1597.2	532.4	319.44	106.48	106.5	0	91999.6
	Kakai	212.96	0	106.5	106.48	0	0	106.48	0	0	0	532.4
	Kakad	3088	1917	1065	1703.7	2449.1	1703.7	2129.6	1064.8	638.9	851.9	16611
	Jambhul	4152.8	2662	2343	1810.2	1171.3	851.85	638.89	212.96	425.9	106.5	14374.9
	Hiwar	0	0	0	0	106.48	0	0	106.48	0	319.4	532.4

Group	Species	Girth classwise classification in cms										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
	Hirda	4259.2	2236	1278	212.96	532.4	1171.3	425.92	106.48	106.5	106.5	10435.1
	Ghoti	48555	3833	12671	4791.6	2449.1	851.85	532.4	106.48	0	106.5	73897.8
	Wad	212.96	745.4	1278	851.85	1171.3	958.33	958.33	1277.8	2023	1065	10541.6
	Moha	2342.6	3940	3088	3407.4	4685.2	4046.3	2449.1	2555.5	6176	3088	35777.6
	<b>Total :</b>	<b>801376</b>	<b>436040</b>	<b>288563.5</b>	<b>218605</b>	<b>167495</b>	<b>118193.89</b>	<b>78689.43</b>	<b>43337.71</b>	<b>54092.32</b>	<b>17569.35</b>	<b>2223962.17</b>
	<b>Grand Total :</b>	<b>1631180</b>	<b>1101120</b>	<b>811172.2</b>	<b>746645</b>	<b>673066</b>	<b>366372.40</b>	<b>414317.5</b>	<b>247781.2</b>	<b>230638</b>	<b>42059.97</b>	<b>6464355</b>

**STATEMENT -II**

**Estimated Growing Stock No. of Sound trees per hectore  
2003-2003**

**Period of Enumeration**

**Division**

East Melghat

**Population area (ha): 25644.89**

**Working Circle : S.C.I. Working Circle**

**Sample area (ha) : 240.84 ha**

**Working Plan by : Shri. M.K.Rao,C.F., Vinod Kumar, Dy.C.F., G.P.Garad, Dy.C.F**

**Intensity of Sampling\_ 0.939**

Group	Species	Girth classwise classification in cms										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Group A :-Species of General Utility</b>												
	Bija	0.058	0.012	0.017	0.012	0.017	0.021	0.012	0.004	0	0.008	0.162
	Lendia	4.372	2.74	1.802	1.636	1.424	1.034	0.498	0.324	0.208	0.021	14.059
	Shisam	0.079	0.037	0.008	0.008	0.017	0.017	0.004	0	0.004	0	0.174
	Sivan	0.042	0.021	0.017	0.012	0	0	0.004	0.004	0.008	0	0.108
	Teak	24.053	20.105	15.853	16.455	16.218	14.483	11.078	6.565	5.178	0.652	130.639
	Tiwas	1.565	1.868	1.727	1.266	0.668	0.353	0.112	0.066	0.021	0	7.648
	Ain	1.192	0.453	0.394	0.527	0.718	0.764	0.681	0.436	0.598	0.066	5.83
	Total :	31.361	25.236	19.818	19.916	19.062	16.672	12.389	7.399	6.017	0.747	158.62
<b>Group B :-Species of Special Utility</b>												
	Khair	0.179	0.116	0.075	0.046	0.046	0.012	0.012	0	0.004	0	0.49
	Salai	0.004	0	0.021	0.029	0.087	0.133	0.145	0.12	0.058	0.021	0.619
	Kalamb	0.361	0.274	0.22	0.274	0.237	0.286	0.187	0.166	0.162	0.046	2.213
	Haldu	0.453	0.307	0.245	0.324	0.282	0.374	0.353	0.286	0.644	0.141	3.409
	Total :	0.997	0.697	0.561	0.673	0.652	0.805	0.697	0.572	0.868	0.208	6.731

Group	Species	Girth classwise classification in cms										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Group C :-Species of Minor Forest Produce</b>												
	Arjun	0.025	0.037	0.017	0.012	0.008	0	0.021	0.017	0.042	0	0.179
	Biba	0.071	0.042	0.05	0.042	0.066	0.033	0.033	0.008	0.008	0	0.353
	Dhaman	0.959	0.677	0.428	0.303	0.203	0.253	0.158	0.066	0.054	0.004	3.106
	Chinch	0.004	0	0	0	0	0	0	0.004	0	0	0.008
	Chichawa	0.083	0.058	0.042	0.042	0.033	0.021	0.021	0.021	0.008	0	0.328
	Char	0.133	0.158	0.162	0.237	0.27	0.212	0.137	0.042	0.037	0.012	1.399
	Chandan	0.008	0.004	0	0	0	0	0	0	0	0	0.012
	Bor	0.203	0.241	0.116	0.079	0.025	0.008	0.012	0.008	0	0	0.693
	Dhawada	0.764	0.756	1.092	1.474	1.528	1.109	0.673	0.336	0.498	0.066	8.296
	Bhokar	0.012	0.004	0	0.008	0	0	0	0	0	0	0.025
	Bherra	0.058	0.108	0.195	0.179	0.112	0.104	0.066	0.05	0.033	0.029	0.934
	Bel	0.262	0.125	0.158	0.116	0.12	0.033	0.025	0.008	0.008	0	0.855
	Behada	0.594	0.37	0.17	0.112	0.075	0.042	0.042	0.054	0.046	0.033	1.536
	Awala	1.445	0.104	0.822	0.668	0.544	0.262	0.125	0.062	0.05	0	4.082
	Ghogar(Papda)	0.017	0.008	0	0	0	0	0	0	0	0	0.025
	Apata/Bhosa	0.664	0.922	0.44	0.174	0.05	0.021	0.008	0.004	0	0	2.284
	Amba	0.017	0.008	0.004	0.004	0	0	0	0	0	0.004	0.037
	Bahava	3.592	1.221	0.195	0.042	0.008	0.008	0.012	0.004	0.004	0	5.086
	Maharukh	0	0	0.004	0	0.008	0.004	0.004	0.008	0	0	0.029
	Umbar	0.029	0.033	0.046	0.008	0.008	0.021	0.017	0.004	0.017	0.012	0.195
	Tendu	3.048	0.772	0.274	0.112	0.087	0.046	0.004	0.004	0.008	0.004	4.36
	Shiras	0.174	0.104	0.042	0.046	0.1	0.029	0.037	0.008	0.004	0.008	0.552
	Semal	0.133	0.091	0.033	0.029	0.046	0.042	0.037	0.008	0.025	0.017	0.461

Group	Species	Girth classwise classification in cms										
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
	Rohan	0.008	0.017	0.012	0.008	0.017	0.017	0.025	0.008	0.012	0.021	0.145
	Pimpal	0.004	0	0.004	0.008	0.004	0.004	0.004	0	0.087	0.029	0.145
	Pangra	0	0	0	0	0.008	0	0	0.004	0	0	0.012
	Palas	0.399	0.033	0.353	0.299	0.179	0.112	0.091	0.046	0.037	0.025	1.574
	Padar	0.033	0.037	0.033	0.029	0.021	0.025	0.012	0.012	0.008	0	0.212
	Others	4.26	1.906	0.967	0.859	0.901	0.843	0.698	0.39	0.353	0.104	11.281
	Neem	0.004	0.004	0.004	0	0	0	0	0	0	0	0.012
	Mokha	0.029	0.025	0.042	0.071	0.066	0.05	0.021	0.017	0.025	0.004	0.349
	Dhoban	0.187	0.1	0.087	0.1	0.108	0.112	0.091	0.091	0.154	0.042	1.071
	Medsing	0	0.004	0	0.017	0.004	0.004	0	0	0	0	0.029
	Dudhi/Kalkuda	7.561	6.008	3.064	1.81	0.789	0.357	0.125	0.058	0.021	0.008	19.802
	Lokhandi	0.021	0.004	0	0	0	0	0	0	0	0	0.025
	Kusum	0.411	0.183	0.1	0.12	0.112	0.083	0.083	0.037	0.1	0.008	1.237
	Kumbhi	1.715	1.221	1.009	0.818	0.465	0.353	0.191	0.091	0.1	0.033	5.996
	Kuda	0.004	0	0	0	0.004	0.004	0	0	0	0	0.012
	Karanj	0.021	0.012	0	0.004	0.008	0.004	0	0	0	0	0.05
	Karai	1.848	1.009	0.436	0.191	0.062	0.021	0.012	0.004	0.004	0	3.587
	Kakai	0.008	0	0.004	0.004	0	0	0.004	0	0	0	0.021
	Kakad	0.12	0.075	0.042	0.066	0.095	0.066	0.083	0.042	0.025	0.033	0.648
	Jambhul	0.162	0.104	0.091	0.071	0.046	0.033	0.025	0.008	0.017	0.004	0.561
	Hiwar	0	0	0	0	0.004	0	0	0.004	0	0.012	0.021
	Hirda	0.166	0.087	0.05	0.008	0.021	0.046	0.017	0.004	0.004	0.004	0.407
	Ghoti	1.893	0.149	0.494	0.187	0.095	0.033	0.021	0.004	0	0.004	2.882
	Wad	0.008	0.029	0.05	0.033	0.046	0.037	0.037	0.05	0.079	0.042	0.411
	Moha	0.091	0.154	0.12	0.133	0.183	0.158	0.095	0.1	0.241	0.12	1.395
	Total :	31.248	17.004	11.252	8.523	6.529	4.61	3.067	1.686	2.109	0.682	86.72
	<b>Grand Total :</b>	<b>63.606</b>	<b>42.937</b>	<b>31.631</b>	<b>29.112</b>	<b>26.243</b>	<b>22.087</b>	<b>16.153</b>	<b>9.657</b>	<b>8.994</b>	<b>1.637</b>	<b>252.071</b>

**STATEMENT -III****Percentage Distribution of total stock of a species over all girth classes****Period of Enumeration****2002-2003****Population area (ha):\_25644.89****Working Circle : S.C.I. Working Circle****Sample area (ha) : 240.84 ha****Working Plan by : Shri. M.K.Rao,C.F., Vinod Kumar, Dy.C.F., G.P.Garad, Dy.C.F****Intensity of Sampling\_ 0.939**

Group	Species	15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150 and above	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
<i>A :-Species of General Utility</i>												
	Bija	35.802	7.407	10.49	7.407	10.494	12.96	7.407	2.47	0	4.94	100
	Lendia	31.098	19.49	12.82	11.64	10.129	7.355	3.542	2.31	1.48	0.15	100
	Shisam	45.402	21.26	4.598	4.598	9.77	9.77	2.299	0	2.3	0	100
	Sivan	38.889	19.44	15.74	11.11	0	0	3.704	3.7	7.41	0	100
	Teak	18.412	15.39	12.14	12.6	12.414	11.09	8.48	5.03	3.96	0.5	100
	Tiwas	20.463	24.43	22.58	16.55	8.734	4.616	1.464	0.86	0.27	0	100
	Ain	20.446	7.77	6.758	9.039	12.316	13.11	11.68	7.48	10.26	1.13	100
	<b>Total :</b>	<b>19.771</b>	<b>15.910</b>	<b>12.494</b>	<b>12.556</b>	<b>12.017</b>	<b>10.511</b>	<b>7.810</b>	<b>4.665</b>	<b>3.793</b>	<b>0.471</b>	<b>100</b>
<i>B :-Species of Special Utility</i>												
	Khair	36.531	23.67	15.31	9.388	9.388	2.449	2.449	0	0.82	0	100
	Salai	0.646	0	3.393	4.685	14.055	21.49	23.43	19.4	9.37	3.39	100
	Kalamb	16.313	12.38	9.941	12.38	10.709	12.92	8.45	7.5	7.32	2.08	100
	Haldu	13.288	9.006	7.187	9.504	8.272	10.97	10.36	8.39	18.89	4.14	100
	<b>Total :</b>	<b>14.812</b>	<b>10.355</b>	<b>8.335</b>	<b>9.999</b>	<b>9.687</b>	<b>11.960</b>	<b>10.355</b>	<b>8.498</b>	<b>12.896</b>	<b>3.090</b>	<b>100</b>

1	2	3	4	5	6	7	8	9	10	11	12	13
<i>C :-Species of Minor Forest Produce</i>												
	Arjun	13.966	20.67	9.497	6.704	4.469	0	11.73	9.5	23.46	0	100
	Biba	20.113	11.9	14.16	11.9	18.697	9.348	9.348	2.27	2.27	0	100
	Dhaman	30.876	21.8	13.78	9.755	6.536	8.146	5.087	2.13	1.74	0.13	100
	Chinch	50	0	0	0	0	0	0	50	0	0	100
	Chichawa	25.305	17.68	12.81	12.81	10.061	6.402	6.402	6.4	2.44	0	100
	Char	9.507	11.29	11.58	16.94	19.299	15.15	9.793	3	2.64	0.86	100
	Chandan	66.667	33.33	0	0	0	0	0	0	0	0	100
	Bor	29.293	34.78	16.74	11.4	3.608	1.154	1.732	1.15	0	0	100
	Dhawada	9.209	9.113	13.16	17.77	18.419	13.37	8.112	4.05	6	0.8	100
	Bhokar	48	16	0	32	0	0	0	0	0	0	100
	Bherra	6.21	11.56	20.88	19.17	11.991	11.14	7.066	5.35	3.53	3.1	100
	Bel	30.643	14.62	18.48	13.57	14.035	3.86	2.924	0.94	0.94	0	100
	Behada	38.672	24.09	11.07	7.292	4.883	2.734	2.734	3.52	2.99	2.15	100
	Awala	35.399	2.548	20.14	16.37	13.327	6.418	3.062	1.52	1.22	0	100
	Ghogar(Papda)	68	32	0	0	0	0	0	0	0	0	100
	Apata/Bhosa	29.072	40.37	19.26	7.618	2.189	0.919	0.35	0.18	0	0	100
	Amba	45.946	21.62	10.81	10.81	0	0	0	0	0	10.81	100
	Bahava	70.625	24.01	3.834	0.826	0.157	0.157	0.236	0.08	0.08	0	100
	Maharukh	0	0	13.79	0	27.586	13.79	13.79	27.6	0	0	100

1	2	3	4	5	6	7	8	9	10	11	12	13
	Umbar	14.872	16.92	23.59	4.103	4.103	10.77	8.718	2.05	8.72	6.15	100
	Tendu	69.908	17.71	6.284	2.569	1.995	1.055	0.092	0.09	0.18	0.09	100
	Shiras	31.522	18.84	7.609	8.333	18.116	5.254	6.703	1.45	0.72	1.45	100
	Semal	28.85	19.74	7.158	6.291	9.978	9.111	8.026	1.74	5.42	3.69	100
	Rohan	5.517	11.72	8.276	5.517	11.724	11.72	17.24	5.52	8.28	14.48	100
	Pimpal	2.759	0	2.759	5.517	2.759	2.759	2.759	0	60	20	100
	Pangra	0	0	0	0	66.667	0	0	33.3	0	0	100
	Palas	25.349	2.097	22.43	19	11.372	7.116	5.781	2.92	2.35	1.59	100
	Padar	15.566	17.45	15.57	13.68	9.906	11.79	5.66	5.66	3.77	0	100
	Others	37.763	16.9	8.572	7.615	7.987	7.473	6.187	3.46	3.13	0.92	100
	Neem	33.333	33.33	33.33	0	0	0	0	0	0	0	100
	Mokha	8.309	7.163	12.03	20.34	18.911	14.33	6.017	4.87	7.16	1.15	100
	Dhoban	17.46	9.337	8.123	9.337	10.084	10.46	8.497	8.5	14.38	3.92	100
	Medsing	0	13.79	0	58.62	13.793	13.79	0	0	0	0	100
	Dhoban	17.46	9.337	8.123	9.337	10.084	10.46	8.497	8.5	14.38	3.92	100
	Medsing	0	13.79	0	58.62	13.793	13.79	0	0	0	0	100
	Dudhi/Kalkuda	38.183	30.34	15.47	9.14	3.984	1.803	0.631	0.29	0.11	0.04	100
	Lokhandi	84	16	0	0	0	0	0	0	0	0	100
	Kusum	33.226	14.79	8.084	9.701	9.054	6.71	6.71	2.99	8.08	0.65	100
	Kumbhi	28.602	20.36	16.83	13.64	7.755	5.887	3.185	1.52	1.67	0.55	100
	Kuda	33.333	0	0	0	33.333	33.33	0	0	0	0	100

1	2	3	4	5	6	7	8	9	10	11	12	13
	Karanj	42	24	0	8	16	8	0	0	0	0	100
	Karai	51.519	28.13	12.16	5.325	1.728	0.585	0.335	0.11	0.11	0	100
	Kakai	38.095	0	19.05	19.05	0	0	19.05	0	0	0	100
	Kakad	18.519	11.57	6.481	10.19	14.66	10.19	12.81	6.48	3.86	5.09	100
	Jambhul	28.877	18.54	16.22	12.66	8.2	5.882	4.456	1.43	3.03	0.71	100
	Hiwar	0	0	0	0	19.048	0	0	19	0	57.14	100
	Hirda	40.786	21.38	12.29	1.966	5.16	11.3	4.177	0.98	0.98	0.98	100
	Ghoti	65.684	5.17	17.14	6.489	3.296	1.145	0.729	0.14	0	0.14	100
	Wad	1.946	7.056	12.17	8.029	11.192	9.002	9.002	12.2	19.22	10.22	100
	Moha	6.523	11.04	8.602	9.534	13.118	11.33	6.81	7.17	17.28	8.6	100
	<b>Total :</b>	<b>36.033</b>	<b>19.608</b>	<b>12.975</b>	<b>9.828</b>	<b>7.529</b>	<b>5.316</b>	<b>3.537</b>	<b>1.945</b>	<b>2.432</b>	<b>0.786</b>	<b>100</b>
	<b>Grand Total :</b>	<b>25.233</b>	<b>17.034</b>	<b>12.548</b>	<b>11.549</b>	<b>10.411</b>	<b>8.762</b>	<b>6.408</b>	<b>3.831</b>	<b>3.568</b>	<b>0.649</b>	<b>100</b>

**STATEMENT -IV****Percentage of stock of a species in girth class to the total stock in that particular girth class**

Period of Enumeration

2003-2003

Division : East Melghat

Population area (ha) : 25644.89

Working Circle S.C.I. Working Circle.

Sample area (ha) : 240.84

Working Plan by : Shri. M.K.Rao,C.F., Vinod Kumar, Dy.C.F., G.P.Garad, Dy.C.F

Intensity of Sampling 0.939

Group	Species	Girth classwise classification in cms									
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	Total
1	2	3	4	5	6	7	8	9	10	11	12
<i>A :-Species of General Utility</i>											
	Bija	0.091	0.028	0.054	0.041	0.065	0.095	0.074	0.041	0	0.064
	Lendia	6.874	6.381	5.697	5.62	5.426	4.681	3.083	3.355	2.313	5.577
	Shisam	0.124	0.086	0.025	0.027	0.065	0.077	0.025	0	0.044	0.069
	Sivan	0.066	0.049	0.054	0.041	0	0	0.025	0.041	0.089	0.043
	Teak	37.816	46.824	50.119	56.523	61.799	65.573	68.582	67.982	57.572	51.826
	Tiwas	2.46	4.351	5.46	4.349	2.545	1.598	0.693	0.683	0.233	3.034
	Ain	1.874	1.055	1.246	1.81	2.736	3.459	4.216	4.515	6.649	2.313
	<b>Total :</b>	<b>49.305</b>	<b>58.774</b>	<b>62.655</b>	<b>68.411</b>	<b>72.636</b>	<b>75.483</b>	<b>76.698</b>	<b>76.617</b>	<b>66.9</b>	<b>62.926</b>
<i>B :-Species of Special Utility</i>											
	Khair	0.281	0.27	0.237	0.158	0.175	0.054	0.074	0	0.044	0.194
	Salai	0.006	0	0.066	0.1	0.332	0.602	0.898	1.243	0.645	0.246
	Kalamb	0.568	0.638	0.696	0.941	0.903	1.295	1.158	1.719	1.801	0.878

1	2	3	4	5	6	7	8	9	10	11	12
	Haldu	0.712	0.715	0.775	1.113	1.075	1.693	2.185	2.962	7.16	1.352
	<b>Total :</b>	<b>1.567</b>	<b>1.623</b>	<b>1.774</b>	<b>2.312</b>	<b>2.485</b>	<b>3.644</b>	<b>4.315</b>	<b>5.924</b>	<b>9.65</b>	<b>2.67</b>
<i>C :-Species of Minor Forest Produce</i>											
	Arjun	0.039	0.086	0.054	0.041	0.03	0	0.13	0.176	0.467	0.071
	Biba	0.112	0.098	0.158	0.144	0.251	0.149	0.204	0.083	0.089	0.14
	Dhaman	1.508	1.577	1.353	1.041	0.774	1.145	0.978	0.683	0.6	1.232
	Chinch	0.006	0	0	0	0	0	0	0.041	0	0.003
	Chichawa	0.13	0.135	0.133	0.144	0.126	0.095	0.13	0.217	0.089	0.13
	Char	0.209	0.368	0.512	0.814	1.029	0.96	0.848	0.435	0.411	0.555
	Chandan	0.013	0.009	0	0	0	0	0	0	0	0.005
	Bor	0.319	0.561	0.367	0.271	0.095	0.036	0.074	0.083	0	0.275
	Dhawada	1.201	1.761	3.452	5.063	5.823	5.021	4.166	3.479	5.537	3.291
	Bhokar	0.019	0.009	0	0.027	0	0	0	0	0	0.01
	Bherra	0.091	0.252	0.616	0.615	0.427	0.471	0.409	0.518	0.367	0.371
	Bel	0.412	0.291	0.5	0.398	0.457	0.149	0.155	0.083	0.089	0.339
	Behada	0.934	0.862	0.537	0.385	0.286	0.19	0.26	0.559	0.511	0.609
	Awala	2.272	0.242	2.599	2.295	2.073	1.186	0.774	0.642	0.556	1.619
	Ghogar(Papda)	0.027	0.019	0	0	0	0	0	0	0	0.01
	Apata/Bhosa	1.044	2.147	1.391	0.598	0.191	0.095	0.05	0.041	0	0.906
	Amba	0.027	0.019	0.013	0.014	0	0	0	0	0	0.015
	Bahava	5.647	2.844	0.616	0.144	0.03	0.036	0.074	0.041	0.044	2.018
	Maharukh	0	0	0.013	0	0.03	0.018	0.025	0.083	0	0.012

1	2	3	4	5	6	7	8	9	10	11	12
	Umbar	0.046	0.077	0.145	0.027	0.03	0.095	0.105	0.041	0.189	0.077
	Tendu	4.792	1.798	0.866	0.385	0.332	0.208	0.025	0.041	0.089	1.73
	Shiras	0.274	0.242	0.133	0.158	0.381	0.131	0.229	0.083	0.044	0.219
	Semal	0.209	0.212	0.104	0.1	0.175	0.19	0.229	0.083	0.278	0.183
	Rohan	0.013	0.04	0.038	0.027	0.065	0.077	0.155	0.083	0.133	0.058
	Pimpal	0.006	0	0.013	0.027	0.015	0.018	0.025	0	0.967	0.058
	Pangra	0	0	0	0	0.03	0	0	0.041	0	0.005
	Palas	0.627	0.077	1.116	1.027	0.682	0.507	0.563	0.476	0.411	0.624
	Padar	0.052	0.086	0.104	0.1	0.08	0.113	0.074	0.124	0.089	0.084
	Others	6.697	4.439	3.057	2.951	3.433	3.817	4.321	4.039	3.925	4.475
	Neem	0.006	0.009	0.013	0	0	0	0	0	0	0.005
	Mokha	0.046	0.058	0.133	0.244	0.251	0.226	0.13	0.176	0.278	0.138
	Dhoban	0.294	0.233	0.275	0.344	0.412	0.507	0.563	0.942	1.712	0.425
	Medsing	0	0.009	0	0.058	0.015	0.018	0	0	0	0.012
	Dudhi/Kalkuda	11.887	13.993	9.687	6.217	3.007	1.616	0.774	0.601	0.233	7.856
	Lokhandi	0.033	0.009	0	0	0	0	0	0	0	0.01
	Kusum	0.646	0.426	0.316	0.412	0.427	0.376	0.514	0.383	1.112	0.491
	Kumbhi	2.696	2.844	3.19	2.81	1.772	1.598	1.182	0.942	1.112	2.379
	Kuda	0.006	0	0	0	0.015	0.018	0	0	0	0.005
	Karanj	0.033	0.028	0	0.014	0.03	0.018	0	0	0	0.02
	Karai	2.905	2.35	1.378	0.656	0.236	0.095	0.074	0.041	0.044	1.423
	Kakai	0.013	0	0.013	0.014	0	0	0.025	0	0	0.008

1	2	3	4	5	6	7	8	9	10	11	12
	Kakad	0.189	0.175	0.133	0.227	0.362	0.299	0.514	0.435	0.278	0.257
	Jambhul	0.255	0.242	0.288	0.244	0.175	0.149	0.155	0.083	0.189	0.223
	Hiwar	0	0	0	0	0.015	0	0	0.041	0	0.008
	Hirda	0.261	0.203	0.158	0.027	0.08	0.208	0.105	0.041	0.044	0.161
	Ghoti	2.976	0.347	1.562	0.642	0.362	0.149	0.13	0.041	0	1.143
	Wad	0.013	0.068	0.158	0.113	0.175	0.168	0.229	0.518	0.878	0.163
	Moha	0.143	0.359	0.379	0.457	0.697	0.715	0.588	1.036	2.68	0.553
	<b>Total :</b>	<b>49.128</b>	<b>39.604</b>	<b>35.573</b>	<b>29.275</b>	<b>24.876</b>	<b>20.867</b>	<b>18.986</b>	<b>17.455</b>	<b>23.445</b>	<b>34.404</b>
	<b>Grand Total :</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Tree Enumeration in Forest Area**

Estimated Standing Volume in Cu.M/Ha

Name of Division :- East Melghat

Period of Enumeration : Oct.-2002 - Jan. 2003

Population area (ha) : 25644.89

Working Circle S.C.I. Working Circle.

Sample area (ha) : 240.84

Working Plan by : Shri. M.K.Rao,C.F., Vinod Kumar, Dy.C.F., G.P.Garad, Dy.C.F

Intensity of Sampling 0.939 %

**STATEMENT V :- ESTIMATED VOLUME IN CU. M. PER HECTARE**

Sr.No	Species	15-30	30-45	45-60	60-75	75-90	90-105	105-120	120-135	135above	Total
1	2	3	4	5	6	7	8	9	10	11	12
	<b>Group:A</b>										
1	Bija	0.0006	0.0001	0.0023	0.003	0.008	0.0155	0.0126	0.0065	-	0.0492
2	Lendia	0.0481	0.1534	0.2703	0.476	0.685	0.7372	0.497	0.4312	0.2768	3.575
3	Shisham	0.0007	0.0016	0.0009	0.002	0.007	0.0096	0.0032	-	0.0042	0.0285
4	Sivan	0.0005	0.0009	0.002	0.003	-	-	0.0033	0.0044	0.0089	0.0228
5	Teak	0.2886	1.0857	2.2511	4.542	7.395	9.7905	10.4798	8.285	6.5346	50.6523
6	Tiwas	0.0141	0.0822	0.2038	0.291	0.254	0.1991	0.0885	0.0696	0.0221	1.2244
7	Ain	0.0119	0.0204	0.0457	0.149	0.348	0.5623	0.7137	0.7046	0.9664	3.5211
	<b>Total</b>	<b>0.3645</b>	<b>1.3443</b>	<b>2.7761</b>	<b>5.466</b>	<b>8.696</b>	<b>11.3142</b>	<b>11.7981</b>	<b>9.5013</b>	<b>7.813</b>	<b>59.0733</b>

1	2	3	4	5	6	7	8	9	10	11	12
	<b>Group:B</b>										
8	Khair	0.002	0.0049	0.0087	0.011	0.018	0.0071	0.01	-	0.0044	0.0658
9	Salai	0.0001	-	0.0021	0.007	0.031	0.0726	0.1131	0.1266	0.0612	0.4136
10	Kalamb	0.004	0.0115	0.0255	0.064	0.093	0.1685	0.1556	0.1844	0.18	0.8862
11	Haldu	0.0045	0.012	0.0294	0.082	0.123	0.2487	0.3354	0.3678	0.8282	2.0303
	<b>Total</b>	<b>0.0106</b>	<b>0.0284</b>	<b>0.0657</b>	<b>0.163</b>	<b>0.265</b>	<b>0.4969</b>	<b>0.6141</b>	<b>0.6788</b>	<b>1.0738</b>	<b>3.3959</b>
	<b>Group:C</b>										
12	Arjun	0.0003	0.0016	0.002	0.003	0.003	-	0.0175	0.0189	-	0.0462
13	Biba	0.0008	0.0018	0.0009	0.01	0.026	0.0194	0.0275	0.0089	-	0.095
14	Dhaman	0.0105	0.0305	0.0535	0.076	0.086	0.1599	0.1409	0.079	0.0646	0.7002
15	Chinch	0.0001	-	-	-	-	-	-	0.0044	-	0.0045
16	Chichwa	0.0009	0.0024	0.0049	0.01	0.013	0.0124	0.0175	0.0233	0.0089	0.093
17	Char	0.0015	0.0066	0.0188	0.055	0.106	0.1249	0.114	0.0467	0.0411	0.5146
18	Chandan	0.0001	0.0002	-	-	-	-	-	-	-	0.0003
19	Bor	0.0022	0.0101	0.0135	0.018	0.01	0.0047	0.01	0.0089	-	0.0776
20	Dhawada	0.0107	0.0544	0.2053	0.529	0.899	0.9604	0.8184	0.5386	0.7983	4.8138
21	Bhokar	0.0001	0.0002	-	0.002	-	-	-	-	-	0.0022
22	Bherra	0.0006	0.0045	0.0226	0.042	0.044	0.0613	0.0549	0.0556	0.0367	0.3218

1	2	3	4	5	6	7	8	9	10	11	12
23	Bel	0.0029	0.0053	0.0183	0.027	0.047	0.0194	0.0208	0.0089	0.0089	0.1585
24	Behada	0.0065	0.0155	0.0197	0.026	0.029	0.0247	0.0349	0.06	0.0511	0.2679
25	Awala	0.0159	0.0044	0.0954	0.156	0.213	0.1543	0.104	0.0689	0.0556	0.8673
26	Ghogar	0.0002	0.0003	-	-	-	-	-	-	-	0.0005
27	Apta/Bhosa	0.0073	0.0387	0.051	0.041	0.02	0.0124	0.0067	0.0044	-	0.1806
28	Amba	0.0001	0.0003	0.0005	9E-04	-	-	-	-	-	0.0018
29	Bahava	0.0395	0.0513	0.0226	0.01	0.003	0.0047	0.01	0.0044	0.0044	0.1498
30	Maharukh	-	-	0.0005	-	0.003	0.0024	0.0033	0.0089	-	0.0182
31	Umbar	0.0003	0.0014	0.0053	0.002	0.003	0.0124	0.0141	0.0044	0.0189	0.0618
32	Tendu	0.0335	0.0324	0.0318	0.026	0.034	0.0271	0.0033	0.0044	0.0089	0.2016
33	Shiras	0.0019	0.0044	0.0049	0.011	0.039	0.0171	0.0308	0.0089	0.0044	0.1223
34	Semal	0.0015	0.0038	0.0038	0.007	0.018	0.0247	0.0308	0.0089	0.0278	0.1261
35	Rohan	0.0001	0.0007	0.0014	0.002	0.007	0.01	0.0208	0.0089	0.0133	0.0638
36	Pimpal	0.0001	-	0.0005	0.002	0.002	0.0024	0.0033	-	0.0967	0.1065
37	Pangra	-	-	-	-	0.003	-	-	0.0044	-	0.0075
38	Palas	0.0044	0.0014	0.0409	0.07	0.07	0.066	0.0757	0.0511	0.0411	0.4205
39	Padar	0.0004	0.0012	0.0038	0.007	0.008	0.0147	0.01	0.0133	0.0089	0.0673
40	Others	0.0469	0.0629	0.1122	0.2	0.353	0.4965	0.5807	0.4333	0.3922	2.678

1	2	3	4	5	6	7	8	9	10	11	12
41	Neem	0.0001	0.0001	0.0005	-	-	-	-	-	-	0.0007
42	Mokha	0.0003	0.0008	0.0049	0.017	0.026	0.0295	0.0175	0.0189	0.0278	0.1421
43	Dhoban	0.0021	0.0033	0.0101	0.023	0.042	0.066	0.0757	0.1011	0.1711	0.495
44	Medsing	-	0.0001	-	0.004	0.002	0.0024	-	-	-	0.0081
45	Dudhi	0.0832	0.1983	0.3554	0.422	0.309	0.2103	0.104	0.0644	0.0233	1.7699
46	Lokhandi	0.0002	0.0001	-	-	-	-	-	-	-	0.0003
47	Kusum	0.0045	0.006	0.0116	0.028	0.044	0.0489	0.0691	0.0411	0.1111	0.3642
48	Kumbhi	0.0189	0.0403	0.117	0.191	0.182	0.2079	0.1589	0.1011	0.1111	1.1281
49	Kuda	0.0001	-	-	-	0.002	0.0024	-	-	-	0.0041
50	Karang	0.0002	0.0004	-	9E-04	0.003	0.0024	-	-	-	0.007
51	Korai	0.0203	0.0333	0.0506	0.045	0.024	0.0124	0.01	0.0044	0.0044	0.2042
52	Kakai	0.0001	-	0.0005	9E-04	-	-	0.0033	-	-	0.0048
53	Kakad	0.0013	0.0025	0.0049	0.015	0.037	0.0389	0.0691	0.0466	0.0278	0.2437
54	Jambhul	0.0018	0.0034	0.0106	0.017	0.018	0.0194	0.0208	0.0089	0.0189	0.1183
55	Hiwar	-	-	-	-	0.002	-	-	0.0044	-	0.006
56	Hirda	0.0018	0.0029	0.0058	0.002	0.008	0.0271	0.0141	0.0044	0.0044	0.0706
57	Ghoti	0.0208	0.0049	0.0573	0.044	0.037	0.0194	0.0175	0.0044	-	0.2051
58	Wad	0.0001	0.001	0.0058	0.008	0.018	0.0218	0.0308	0.0556	0.0878	0.2286

1	2	3	4	5	6	7	8	9	10	11	12
59	Moha	0.0007	0.0054	0.0116	0.027	0.069	0.0967	0.0892	0.1365	0.329	0.7653
	<b>Total</b>	<b>0.3458</b>	<b>0.6391</b>	<b>1.3807</b>	<b>2.173</b>	<b>2.862</b>	<b>3.0373</b>	<b>2.8299</b>	<b>2.0692</b>	<b>2.5985</b>	<b>17.9353</b>
	<b>Grand Total</b>	<b>0.7209</b>	<b>2.0118</b>	<b>4.2225</b>	<b>7.802</b>	<b>11.82</b>	<b>14.8484</b>	<b>15.2421</b>	<b>12.2493</b>	<b>11.485</b>	<b>80.4045</b>

## STATEMENT - I

Estimated Growing Stock No. of sound trees

Period of Enumeration : Oct 2002 -Jan 2003

Division : East Melghat

Population area (ha) : 5011.46

Working Circle : Improvement Working Circle.

Simple area (ha) : 46.44

Working Plan by : Shri. M.K.Rao, C.F. Vinod Kumar, Dy.C.F., G.P.Garad Dy. C.F.

Intensity of sampling (%) 0.927

Group	Species	Girth classwise classification in cms.										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
<i>A :-Species of General Utility</i>												
	Bija	215.83	0	0	0	0	0	0	0	0	0	215.83
	Lendia	32913.5	22230	17481.9	14568	8848.9	3884.87	1726.61	323.74	215.83	0	102193.61
	Shisam	107.91	539.56	539.56	0	0	0	0	0	0	0	1187.04
	Sivan	107.91	107.91	431.65	107.91	107.91	0	0	0	0	0	863.3
	Teak	213668	153129	97229.6	81906	50611	29676.08	16510.69	6906.43	5287.74	107.91	655031.91
	Tiwas	6258.95	12950	10143.8	5719.4	1618.7	1079.13	215.83	0	0	0	37985.38
	Ain	13812.9	11870	10683.4	8848.9	6259	3237.39	1510.78	647.48	107.91	107.91	57085.98
	<b>Total :</b>	<b>267085</b>	<b>200826</b>	<b>136510</b>	<b>111150</b>	<b>67446</b>	<b>37877.47</b>	<b>19963.91</b>	<b>7877.65</b>	<b>5611.48</b>	<b>215.82</b>	<b>854563.05</b>
<i>B :-Species of Special Utility</i>												
	Haldu	539.56	539.56	323.74	107.91	107.91	323.74	107.91	0	107.91	107.91	2266.17
	Kalamb	863.3	1618.7	1187.04	755.39	539.56	431.65	215.83	215.83	107.91	215.83	6151.04
	Salai	2050.35	4748.2	15323.7	35180	41978	36798.33	23309.21	10899.21	5395.65	431.65	176114.02
	Khair	431.65	755.39	755.39	323.74	0	215.83	107.91	0	0	0	2589.91
	<b>Total :</b>	<b>3884.86</b>	<b>7661.8</b>	<b>17589.8</b>	<b>36367</b>	<b>42626</b>	<b>37769.55</b>	<b>23740.86</b>	<b>11115.04</b>	<b>5611.47</b>	<b>755.39</b>	<b>187121.14</b>

1	2	3	4	5	6	7	8	9	10	11	12	13
<i>C :-Species of Minor Forest Produce</i>												
	Bel	0	215.83	0	0	215.83	107.91	0	0	0	0	539.56
	Char	3453.22	4532.4	2805.74	1618.7	647.48	215.83	107.91	107.91	0	0	13489.12
	Bor	323.74	431.65	215.83	215.83	0	0	0	0	0	0	1187.04
	Biba	863.3	755.39	107.91	1079.1	755.39	0	107.91	0	0	0	3669.04
	Bherra	21906.3	15863	8848.87	5503.6	1079.1	647.48	0	0	0	0	53848.59
	Behada	1187.04	755.39	431.65	323.74	323.74	107.91	107.91	107.91	323.74	107.91	3776.96
	Bahava	6366.87	2482	1187.04	323.74	215.83	0	0	0	0	0	10575.47
	Awala	539.56	1510.8	2158.26	755.39	431.65	215.83	0	0	0	0	5611.48
	Chinch	0	0	107.91	0	0	0	0	0	0	0	107.91
	Apata	4100.69	2482	1187.04	215.83	0	107.91	0	0	0	0	8093.48
	Dhaman	9064.69	5071.9	2589.91	1295	971.22	539.56	431.65	0	0	0	19963.9
	Arjun	215.83	107.91	0	0	0	0	0	0	0	0	323.74
	Lokhandi	539.56	215.83	755.39	647.48	431.65	215.83	215.83	107.91	0	0	3129.48
	Umbar	0	0	107.91	0	0	0	0	0	0	0	107.91
	Tendu	18884.8	7985.6	2913.65	1295	971.22	431.65	539.56	215.83	0	0	33237.2
	Siras	215.83	755.39	215.83	0	323.74	0	107.91	0	0	0	1618.7
	Semal	323.74	0	0	215.83	107.91	323.74	0	107.91	0	0	1079.13
	Rohan	0	0	215.83	107.91	323.74	107.91	107.91	107.91	107.91	0	1079.13
	Pimpal	107.91	0	107.91	215.83	0	215.83	0	0	215.83	0	863.3
	Pangra	215.83	971.22	323.74	323.74	0	107.91	0	0	0	0	1942.43
	Palas	24172.5	25683	14352.4	10036	5071.9	2697.82	971.22	323.74	323.74	107.91	83740.49
	Others	7985.56	7014.3	6582.69	5611.5	3884.9	3021.56	1618.7	755.39	647.48	0	37122.07
	Chichawa	431.65	107.91	215.83	0	0	0	0	107.91	0	0	863.3
	Moha	107.91	0	0	107.91	215.83	107.91	107.91	0	0	0	647.48

1	2	3	4	5	6	7	8	9	10	11	12	13
	Wad	0	0	0	0	0	0	107.91	0	0	0	107.91
	Kusum	1079.13	1187	647.48	323.74	323.74	323.74	215.83	0	0	0	4100.69
	Kumbhi	0	107.91	107.91	0	0	0	0	0	0	0	215.83
	Karanj	215.83	107.91	0	0	107.91	0	0	0	0	0	431.65
	Kakad	107.91	215.83	0	107.91	0	0	0	0	0	0	431.65
	Hiwar	431.65	539.56	539.56	215.83	107.91	0	0	0	0	0	1834.52
	Ghoti	1942.43	863.3	215.83	107.91	0	0	0	0	0	0	3129.48
	Dudhi/ Kalkuda	57193.9	34532	13381.2	3237.4	2050.4	647.48	215.83	323.74	0	0	111582.04
	Dhoban	20935.1	21906	20719.3	16187	9928	5719.39	3453.22	1942.43	755.39	215.83	101761.96
	Dhawada	30863.1	10144	8309.3	8525.1	3992.8	1942.43	647.48	107.91	215.83	0	64747.8
	Neem	0	0	0	0	107.91	0	0	107.91	0	0	215.83
	<b>Total :</b>	<b>213776</b>	<b>146546</b>	<b>89352</b>	<b>58597</b>	<b>32590</b>	<b>17805.63</b>	<b>9064.69</b>	<b>4424.41</b>	<b>2589.92</b>	<b>431.65</b>	<b>575176.27</b>
	<b>Grand Total :</b>	<b>484745</b>	<b>355034</b>	<b>243452</b>	<b>206114</b>	<b>142661</b>	<b>93452.65</b>	<b>52769.46</b>	<b>23417.1</b>	<b>13812.87</b>	<b>1402.86</b>	<b>1616860.46</b>

**STATEMENT - II****Estimated Growing Stock No. of sound trees**

Period of Enumeration : Oct 2002 -Jan 2003

Division : East Melghat

Population area (ha) : 5011.46

Working Circle : Improvement Working Circle.

Smple area (ha) : 46.44

Working Plan by : Shri. M.K.Rao, C.F. Vinod Kumar, Dy.C.F., G.P.Garad Dy. C.F.

Intensity of sampling (%) 0.927

Group	Species	Girth classwise classification in cms.										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150 and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
<i>A :-Species of General Utility</i>												
	Bija	0.043	0	0	0	0	0	0	0	0	0	0.043
	Lendia	6.568	4.436	3.488	2.907	1.766	0.775	0.345	0.065	0.043	0	20.392
	Shisam	0.022	0.108	0.108	0	0	0	0	0	0	0	0.237
	Sivan	0.022	0.022	0.086	0.022	0.022	0	0	0	0	0	0.172
	Teak	42.636	30.556	19.401	16.344	10.099	5.922	3.295	1.378	1.055	0.022	130.707
	Tiwas	1.249	2.584	2.024	1.141	0.323	0.215	0.043	0	0	0	7.58
	Ain	2.756	2.369	2.132	1.766	1.249	0.646	0.301	0.129	0.022	0.022	11.391
	<b>Total :</b>	<b>53.296</b>	<b>40.075</b>	<b>27.239</b>	<b>22.18</b>	<b>13.459</b>	<b>7.558</b>	<b>3.984</b>	<b>1.572</b>	<b>1.12</b>	<b>0.044</b>	<b>170.522</b>
<i>B :-Species of Special Utility</i>												
	Haldu	0.108	0.108	0.065	0.022	0.022	0.065	0.022	0	0.022	0.022	0.452
	Kalamb	0.172	0.323	0.237	0.151	0.108	0.086	0.043	0.043	0.022	0.043	1.227
	Salai	0.409	0.947	3.058	7.02	8.376	7.343	4.651	2.175	1.077	0.086	35.142
	Khair	0.086	0.151	0.151	0.065	0	0.043	0.022	0	0	0	0.517
	<b>Total :</b>	<b>0.775</b>	<b>1.529</b>	<b>3.511</b>	<b>7.258</b>	<b>8.506</b>	<b>7.537</b>	<b>4.738</b>	<b>2.218</b>	<b>1.121</b>	<b>0.151</b>	<b>37.338</b>

	2	3	4	5	6	7	8	9	10	11	12	13
<i>C :-Species of Minor Forest Produce</i>												
Bel	0	0.043	0	0	0.043	0.022	0	0	0	0	0	0.108
Char	0.689	0.904	0.56	0.323	0.129	0.043	0.022	0.022	0.022	0	0	2.692
Bor	0.065	0.086	0.043	0.043	0	0	0	0	0	0	0	0.237
Biba	0.172	0.151	0.022	0.215	0.151	0	0.022	0	0	0	0	0.732
Bherra	4.371	3.165	1.766	1.098	0.215	0.129	0	0	0	0	0	10.745
Behada	0.237	0.151	0.086	0.065	0.065	0.022	0.022	0.022	0.022	0.065	0.022	0.754
Bahava	1.27	0.495	0.237	0.065	0.043	0	0	0	0	0	0	2.11
Awala	0.108	0.301	0.431	0.151	0.086	0.043	0	0	0	0	0	1.12
Chinch	0	0	0.022	0	0	0	0	0	0	0	0	0.022
Apata	0.818	0.495	0.237	0.043	0	0.022	0	0	0	0	0	1.615
Dhaman	1.809	1.012	0.517	0.258	0.194	0.108	0.086	0	0	0	0	3.984
Arjun	0.043	0.022	0	0	0	0	0	0	0	0	0	0.065
Lokhandi	0.108	0.043	0.151	0.129	0.086	0.043	0.043	0.022	0	0	0	0.624
Umbar	0	0	0.022	0	0	0	0	0	0	0	0	0.022
Tendu	3.768	1.593	0.581	0.258	0.194	0.086	0.108	0.043	0	0	0	6.632
Siras	0.043	0.151	0.043	0	0.065	0	0.022	0	0	0	0	0.323
Semal	0.065	0	0	0.043	0.022	0.065	0	0.022	0	0	0	0.215
Rohan	0	0	0.043	0.022	0.065	0.022	0.022	0.022	0.022	0.022	0	0.215
Pimpal	0.022	0	0.022	0.043	0	0.043	0	0	0	0.043	0	0.172
Pangra	0.043	0.194	0.065	0.065	0	0.022	0	0	0	0	0	0.388
Palas	4.823	5.125	2.864	2.003	1.012	0.538	0.194	0.065	0.065	0.022	0.022	16.71
Others	1.593	1.4	1.314	1.12	0.775	0.603	0.323	0.151	0.129	0	0	7.407
Chichawa	0.086	0.022	0.043	0	0	0	0	0.022	0	0	0	0.172
Moha	0.022	0	0	0.022	0.043	0.022	0.022	0	0	0	0	0.129
Wad	0	0	0	0	0	0	0.022	0	0	0	0	0.022

1	2	3	4	5	6	7	8	9	10	11	12	13
	Kusum	0.215	0.237	0.129	0.065	0.065	0.065	0.043	0	0	0	0.818
	Kumbhi	0	0.022	0.022	0	0	0	0	0	0	0	0.043
	Karanj	0.043	0.022	0	0	0.022	0	0	0	0	0	0.086
	Kakad	0.022	0.043	0	0.022	0	0	0	0	0	0	0.086
	Hiwar	0.086	0.108	0.108	0.043	0.022	0	0	0	0	0	0.366
	Ghoti	0.388	0.172	0.043	0.022	0	0	0	0	0	0	0.624
	Dudhi/Kalkud a	11.413	6.891	2.67	0.646	0.409	0.129	0.043	0.065	0	0	22.265
	Dhoban	4.177	4.371	4.134	3.23	1.981	1.141	0.689	0.388	0.151	0.043	20.306
	Dhawada	6.159	2.024	1.658	1.701	0.797	0.388	0.129	0.022	0.043	0	12.92
	Neem	0	0	0	0	0.022	0	0	0.022	0	0	0.043
	<b>Total :</b>	<b>42.658</b>	<b>29.243</b>	<b>17.833</b>	<b>11.695</b>	<b>6.506</b>	<b>3.556</b>	<b>1.812</b>	<b>0.888</b>	<b>0.518</b>	<b>0.087</b>	<b>114.772</b>
	<b>Grand Total :</b>	<b>96.729</b>	<b>70.847</b>	<b>48.583</b>	<b>41.133</b>	<b>28.471</b>	<b>18.651</b>	<b>10.534</b>	<b>4.678</b>	<b>2.759</b>	<b>0.282</b>	<b>322.632</b>

## STATEMENT - III

## Estimated Growing Stock No. of sound trees

Period of Enumeration : Oct 2002 -Jan 2003

Division : East Melghat

Population area (ha) : 5011.46

Working Circle : Improvement Working Circle.

Smple area (ha) : 46.44

Working Plan by : Shri. M.K.Rao, C.F.Vinod Kumar, Dy.C.F., G.P.Garad Dy. C.F.

Intensity of sampling (%) 0.927

Group	Species	Girth classwise classification in cms.										Total
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	150 and above	
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>A :-Species of General Utility</b>												
	Bija	0.043	0	0	0	0	0	0	0	0	0	0.043
	Lendia	6.568	4.436	3.488	2.907	1.766	0.775	0.345	0.065	0.043	0	20.392
	Shisam	0.022	0.108	0.108	0	0	0	0	0	0	0	0.237
	Sivan	0.022	0.022	0.086	0.022	0.022	0	0	0	0	0	0.172
	Teak	42.636	30.556	19.401	16.344	10.099	5.922	3.295	1.378	1.055	0.022	130.707
	Tiwas	1.249	2.584	2.024	1.141	0.323	0.215	0.043	0	0	0	7.58
	Ain	2.756	2.369	2.132	1.766	1.249	0.646	0.301	0.129	0.022	0.022	11.391
	<b>Total :</b>	<b>53.296</b>	<b>40.075</b>	<b>27.239</b>	<b>22.18</b>	<b>13.459</b>	<b>7.558</b>	<b>3.984</b>	<b>1.572</b>	<b>1.12</b>	<b>0.044</b>	<b>170.522</b>
<b>B :-Species of Special Utility</b>												
	Haldu	0.108	0.108	0.065	0.022	0.022	0.065	0.022	0	0.022	0.022	0.452
	Kalamb	0.172	0.323	0.237	0.151	0.108	0.086	0.043	0.043	0.022	0.043	1.227
	Salai	0.409	0.947	3.058	7.02	8.376	7.343	4.651	2.175	1.077	0.086	35.142
	Khair	0.086	0.151	0.151	0.065	0	0.043	0.022	0	0	0	0.517

1	2	3	4	5	6	7	8	9	10	11	12	13
<b>C :-Species of Minor Forest Produce</b>												
	Bel	0	0.043	0	0	0.043	0.022	0	0	0	0	0.108
	Char	0.689	0.904	0.56	0.323	0.129	0.043	0.022	0.022	0	0	2.692
	Bor	0.065	0.086	0.043	0.043	0	0	0	0	0	0	0.237
	Biba	0.172	0.151	0.022	0.215	0.151	0	0.022	0	0	0	0.732
	Bherra	4.371	3.165	1.766	1.098	0.215	0.129	0	0	0	0	10.745
	Behada	0.237	0.151	0.086	0.065	0.065	0.022	0.022	0.022	0.065	0.022	0.754
	Bahava	1.27	0.495	0.237	0.065	0.043	0	0	0	0	0	2.11
	Awala	0.108	0.301	0.431	0.151	0.086	0.043	0	0	0	0	1.12
	Chinch	0	0	0.022	0	0	0	0	0	0	0	0.022
	Apata	0.818	0.495	0.237	0.043	0	0.022	0	0	0	0	1.615
	Dhaman	1.809	1.012	0.517	0.258	0.194	0.108	0.086	0	0	0	3.984
	Arjun	0.043	0.022	0	0	0	0	0	0	0	0	0.065
	Lokhandi	0.108	0.043	0.151	0.129	0.086	0.043	0.043	0.022	0	0	0.624
	Umbar	0	0	0.022	0	0	0	0	0	0	0	0.022
	Tendu	3.768	1.593	0.581	0.258	0.194	0.086	0.108	0.043	0	0	6.632
	Siras	0.043	0.151	0.043	0	0.065	0	0.022	0	0	0	0.323
	Semal	0.065	0	0	0.043	0.022	0.065	0	0.022	0	0	0.215
	Rohan	0	0	0.043	0.022	0.065	0.022	0.022	0.022	0.022	0	0.215
	Pimpal	0.022	0	0.022	0.043	0	0.043	0	0	0.043	0	0.172
	Pangra	0.043	0.194	0.065	0.065	0	0.022	0	0	0	0	0.388
	Palas	4.823	5.125	2.864	2.003	1.012	0.538	0.194	0.065	0.065	0.022	16.71
	Others	1.593	1.4	1.314	1.12	0.775	0.603	0.323	0.151	0.129	0	7.407
	Chichawa	0.086	0.022	0.043	0	0	0	0	0.022	0	0	0.172
	Moha	0.022	0	0	0.022	0.043	0.022	0.022	0	0	0	0.129

1	2	3	4	5	6	7	8	9	10	11	12	13
	Wad	0	0	0	0	0	0	0.022	0	0	0	0.022
	Kusum	0.215	0.237	0.129	0.065	0.065	0.065	0.043	0	0	0	0.818
	Kumbhi	0	0.022	0.022	0	0	0	0	0	0	0	0.043
	Karanj	0.043	0.022	0	0	0.022	0	0	0	0	0	0.086
	Kakad	0.022	0.043	0	0.022	0	0	0	0	0	0	0.086
	Hiwar	0.086	0.108	0.108	0.043	0.022	0	0	0	0	0	0.366
	Ghoti	0.388	0.172	0.043	0.022	0	0	0	0	0	0	0.624
	Dudhi/Kalkud a	11.413	6.891	2.67	0.646	0.409	0.129	0.043	0.065	0	0	22.265
	Dhoban	4.177	4.371	4.134	3.23	1.981	1.141	0.689	0.388	0.151	0.043	20.306
	Dhawada	6.159	2.024	1.658	1.701	0.797	0.388	0.129	0.022	0.043	0	12.92
	Neem	0	0	0	0	0.022	0	0	0.022	0	0	0.043
	<b>Total :</b>	<b>42.658</b>	<b>29.243</b>	<b>17.833</b>	<b>11.695</b>	<b>6.506</b>	<b>3.556</b>	<b>1.812</b>	<b>0.888</b>	<b>0.518</b>	<b>0.087</b>	<b>114.772</b>
	<b>Grand Total :</b>	<b>96.729</b>	<b>70.847</b>	<b>48.583</b>	<b>41.133</b>	<b>28.471</b>	<b>18.651</b>	<b>10.534</b>	<b>4.678</b>	<b>2.759</b>	<b>0.282</b>	<b>322.632</b>

## STATEMENT - IV

## Estimated Growing Stock No. of sound trees

Period of Enumeration : Oct 2002 -Jan 2003

Division : East Melghat

Population area (ha) : 5011.46

Working Circle : Improvement Working Circle.

Smple area (ha) : 46.44

Working Plan by : Shri. M.K.Rao, C.F. Vinod Kumar, Dy.C.F., G.P.Garad Dy. C.F.

Intensity of sampling (%) 0.927

Group	Species	Girth classwise classification in cms.									
		15U30	30U45	45U60	60U75	75U90	90U105	105U120	120U135	135U150	Total
1	2	3	4	5	6	7	8	9	10	11	12
<i>A :-Species of General Utility</i>											
	Bija	0.044	0	0	0	0	0	0	0	0	0.013
	Lendia	6.79	6.261	7.179	7.067	6.203	4.155	3.275	1.389	1.559	6.321
	Shisam	0.023	0.152	0.222	0	0	0	0	0	0	0.073
	Sivan	0.023	0.031	0.177	0.053	0.077	0	0	0	0	0.053
	Teak	44.078	43.13	39.934	39.735	35.471	31.752	31.28	29.457	38.238	40.513
	Tiwas	1.291	3.647	4.166	2.774	1.134	1.153	0.408	0	0	2.349
	Ain	2.849	3.344	4.388	4.293	4.387	3.464	2.857	2.758	0.797	3.531
	<b>Total :</b>	<b>55.098</b>	<b>56.565</b>	<b>56.066</b>	<b>53.922</b>	<b>47.272</b>	<b>40.524</b>	<b>37.82</b>	<b>33.604</b>	<b>40.594</b>	<b>52.853</b>
<i>B :-Species of Special Utility</i>											
	Haldu	0.112	0.152	0.134	0.053	0.077	0.349	0.209	0	0.797	0.14
	Kalamb	0.178	0.456	0.488	0.367	0.379	0.461	0.408	0.919	0.797	0.38
	Salai	0.423	1.337	6.294	17.067	29.419	39.371	44.152	46.494	39.036	10.892
	Khair	0.089	0.213	0.311	0.158	0	0.231	0.209	0	0	0.16
	<b>Total :</b>	<b>0.802</b>	<b>2.158</b>	<b>7.227</b>	<b>17.645</b>	<b>29.875</b>	<b>40.412</b>	<b>44.978</b>	<b>47.413</b>	<b>40.63</b>	<b>11.572</b>
<i>C :-Species of Minor Forest Produce</i>											
	Bel	0	0.061	0	0	0.151	0.118	0	0	0	0.033
	Char	0.712	1.276	1.153	0.785	0.453	0.231	0.209	0.47	0	0.834
	Bor	0.067	0.121	0.089	0.105	0	0	0	0	0	0.073

1	2	3	4	5	6	7	8	9	10	11	12
	Biba	0.178	0.213	0.045	0.523	0.53	0	0.209	0	0	0.227
	Bherra	4.519	4.467	3.635	2.669	0.755	0.692	0	0	0	3.33
	Behada	0.245	0.213	0.177	0.158	0.228	0.118	0.209	0.47	2.356	0.234
	Bahava	1.313	0.699	0.488	0.158	0.151	0	0	0	0	0.654
	Awala	0.112	0.425	0.887	0.367	0.302	0.231	0	0	0	0.347
	Chinch	0	0	0.045	0	0	0	0	0	0	0.007
	Apata	0.846	0.699	0.488	0.105	0	0.118	0	0	0	0.501
	Dhaman	1.87	1.428	1.064	0.627	0.681	0.579	0.816	0	0	1.235
	Arjun	0.044	0.031	0	0	0	0	0	0	0	0.02
	Lokhandi	0.112	0.061	0.311	0.314	0.302	0.231	0.408	0.47	0	0.193
	Umbar	0	0	0.045	0	0	0	0	0	0	0.007
	Tendu	3.895	2.249	1.196	0.627	0.681	0.461	1.025	0.919	0	2.056
	Siras	0.044	0.213	0.089	0	0.228	0	0.209	0	0	0.1
	Semal	0.067	0	0	0.105	0.077	0.349	0	0.47	0	0.067
	Rohan	0	0	0.089	0.053	0.228	0.118	0.209	0.47	0.797	0.067
	Pimpal	0.023	0	0.045	0.105	0	0.231	0	0	1.559	0.053
	Pangra	0.044	0.274	0.134	0.158	0	0.118	0	0	0	0.12
	Palas	4.986	7.234	5.895	4.87	3.554	2.885	1.842	1.389	2.356	5.179
	Others	1.647	1.976	2.705	2.723	2.722	3.233	3.066	3.228	4.676	2.296
	Chichawa	0.089	0.031	0.089	0	0	0	0	0.47	0	0.053
	Moha	0.023	0	0	0.053	0.151	0.118	0.209	0	0	0.04
	Wad	0	0	0	0	0	0	0.209	0	0	0.007
	Kusum	0.222	0.335	0.266	0.158	0.228	0.349	0.408	0	0	0.254
	Kumbhi	0	0.031	0.045	0	0	0	0	0	0	0.013
	Karanj	0.044	0.031	0	0	0.077	0	0	0	0	0.027
	Kakad	0.023	0.061	0	0.053	0	0	0	0	0	0.027

1	2	3	4	5	6	7	8	9	10	11	12
	Hiwar	0.089	0.152	0.222	0.105	0.077	0	0	0	0	0.113
	Ghoti	0.401	0.243	0.089	0.053	0	0	0	0	0	0.193
	Dudhi/Kalkuda	11.799	9.727	5.496	1.571	1.437	0.692	0.408	1.389	0	6.901
	Dhoban	4.318	6.17	8.509	7.853	6.958	6.118	6.541	8.294	5.473	6.294
	Dhawada	6.367	2.857	3.413	4.135	2.799	2.08	1.225	0.47	1.559	4.005
	Neem	0	0	0	0	0.077	0	0	0.47	0	0.013
	<b>Total :</b>	<b>44.099</b>	<b>41.278</b>	<b>36.709</b>	<b>28.433</b>	<b>22.847</b>	<b>19.07</b>	<b>17.202</b>	<b>18.979</b>	<b>18.776</b>	<b>35.573</b>
	<b>Grand Total :</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Tree Enumeration in Forest Area****Estimated Standing Volume in Cu.M/Ha****Name of Division :- East Melghat****Period of Enumeration : Oct.-2002 - Jan. 2003****Population area (ha) : 5011.46 Ha****Working Circle S.C.I. Working Circle.****Sample area (ha) : 46.44****Working Plan by : Shri. M.K.Rao,C.F., Vinod Kumar, Dy.C.F., G.P.Garad, Dy.C.F****Intensity of Sampling 0.927 %****STATEMENT V :- ESTIMATED VOLUME IN CU. M. PER HECTARE**

Sr.No	Species	15-30	30-45	45-60	60-75	75-90	90-105	105-120	120-135	135 above	Total
1	2	3	4	5	6	7	8	9	10	11	12
	<b>Group:A</b>										
1	Bija	0.0004	-	-	-	-	-	-	-	-	0.0004
2	Lendia	0.0722	0.2484	0.5232	0.846	0.849	0.5526	0.3443	0.0865	0.0572	3.5797
3	Shisam	0.0002	0.0048	0.0127	-	-	-	-	-	-	0.0177
4	Sivan	0.0002	0.0009	0.01	0.005	0.009	-	-	-	-	0.0248
5	Teak	0.5116	1.65	2.7549	4.511	4.605	4.0033	3.1171	1.739	1.3314	24.2233
6	Tiwas	0.055	0.1137	0.2388	0.262	0.123	0.1213	0.034	-	-	0.9479
7	Ain	0.0276	0.1066	0.2877	0.498	0.605	0.4755	0.3154	0.2084	0.0356	2.5593
	<b>Total</b>	<b>0.6672</b>	<b>2.1244</b>	<b>3.8273</b>	<b>6.122</b>	<b>6.19</b>	<b>5.1527</b>	<b>3.8108</b>	<b>2.0339</b>	<b>1.4242</b>	<b>31.3531</b>

1	2	3	4	5	6	7	8	9	10	11	12
	<b>Group B</b>										
8	Haldu	0.0011	0.0042	0.0073	0.006	0.01	0.0432	0.0209	-	0.0283	0.1201
9	Kalamb	0.0019	0.0136	0.0275	0.035	0.042	0.0507	0.0358	0.0478	0.0244	0.2792
10	Salai	0.0037	0.0313	0.3058	1.46	2.999	4.0093	3.6278	2.2946	1.1362	15.8675
11	Khair	0.0009	0.0063	0.0175	0.015	-	0.0253	0.0183	-	-	0.0834
	<b>Total</b>	<b>0.0076</b>	<b>0.0554</b>	<b>0.3581</b>	<b>1.516</b>	<b>3.051</b>	<b>4.1285</b>	<b>3.7028</b>	<b>2.3424</b>	<b>1.1889</b>	<b>16.3502</b>
	<b>Group C</b>										
12	Bel	-	0.0018	-	-	0.017	0.013	-	-	-	0.0317
13	Char	0.0076	0.038	0.065	0.075	0.051	0.0253	0.0183	0.0244	-	0.3045
14	Bor	0.0007	0.0036	0.005	0.01	-	-	-	-	-	0.0193
15	Biba	0.0019	0.0063	0.0026	0.05	0.059	-	0.0183	-	-	0.1384
16	Bherra	0.0481	0.1329	0.2049	0.256	0.084	0.076	-	-	-	0.802
17	Behada	0.0026	0.0063	0.01	0.015	0.026	0.013	0.0183	0.0244	0.0722	0.1874
18	Bahawa	0.014	0.0208	0.0275	0.015	0.017	-	-	-	-	0.0943
19	Awala	0.0012	0.0126	0.05	0.035	0.034	0.0253	-	-	-	0.158
20	Chinch	-	-	0.0026	-	-	-	-	-	-	0.0026
21	Apata	0.009	0.0208	0.0275	0.01	-	0.013	-	-	-	0.0803
22	Dhaman	0.0199	0.0425	0.06	0.06	0.076	0.0636	0.0716	-	-	0.3937

1	2	3	4	5	6	7	8	9	10	11	12
23	Arjun	0.0005	0.0009	-	-	-	-	-	-	-	0.0014
24	Lokhandi	0.0012	0.0018	0.0175	0.03	0.034	0.0253	0.0358	0.0244	-	0.1698
25	Umber	-	-	0.0026	-	-	-	-	-	-	0.0026
26	Tendu	0.0414	0.0669	0.0674	0.06	0.076	0.0507	0.0899	0.0478	-	0.5002
27	Siras	0.0005	0.0063	0.005	-	0.026	-	0.0183	-	-	0.0556
28	Semal	0.0007	-	-	0.01	0.009	0.0383	-	0.0244	-	0.082
29	Rohan	-	-	0.005	0.005	0.026	0.013	0.0183	0.0244	0.0244	0.1157
30	Pimpal	0.0002	-	0.0026	0.01	-	0.0253	-	-	0.0478	0.0859
31	Pangra	0.0005	0.0081	0.0075	0.015	-	0.013	-	-	-	0.0442
32	Palas	0.0531	0.2153	0.3322	0.467	0.397	0.3169	0.1614	0.0722	0.0722	2.0867
33	Others	0.0175	0.0588	0.1524	0.261	0.304	0.3552	0.2687	0.1678	0.1433	1.7285
34	Chichwa	0.0009	0.0009	0.005	-	-	-	-	0.0244	-	0.0312
35	Moha	0.0002	-	-	0.005	0.016	0.0135	0.0207	-	-	0.05525
36	Wad	-	-	-	-	-	-	0.0183	-	-	0.0183
37	Kusum	0.0024	0.01	0.015	0.015	0.026	0.0383	0.0358	-	-	0.1421
38	Kumbhi	-	0.0009	0.0026	-	-	-	-	-	-	0.0035
39	Karanj	0.0005	0.0009	-	-	0.009	-	-	-	-	0.01
40	Kakad	0.0002	0.0018	-	0.005	-	-	-	-	-	0.0071

1	2	3	4	5	6	7	8	9	10	11	12
41	Hiwar	0.0009	0.0045	0.0125	0.01	0.009	-	-	-	-	0.0365
42	Ghoti	0.0043	0.0072	0.005	0.005	-	-	-	-	-	0.0216
43	Dudhi	0.1255	0.2894	0.3097	0.151	0.16	0.076	0.0358	0.0722	-	1.2194
44	Dhoban	0.0459	0.1836	0.4795	0.753	0.777	0.672	0.5732	0.4311	0.1678	4.0823
45	Dhawada	0.0862	0.1457	0.3117	0.611	0.469	0.336	0.1569	0.0353	0.0689	2.22
46	Neem	-	-	-	-	0.009	-	-	0.0244	-	0.033
	<b>Total</b>	<b>0.4876</b>	<b>1.2886</b>	<b>2.1883</b>	<b>2.939</b>	<b>2.706</b>	<b>2.2027</b>	<b>1.5596</b>	<b>0.9972</b>	<b>0.5966</b>	<b>14.9651</b>
	<b>Grand Total</b>	<b>1.1624</b>	<b>3.4684</b>	<b>6.3737</b>	<b>10.58</b>	<b>11.95</b>	<b>11.4839</b>	<b>9.0732</b>	<b>5.3735</b>	<b>3.2097</b>	<b>62.6684</b>



**Appendix No. XVI**

**Statement Showing Difference Between  
Notified Area And Digitized Area**

<b>Working Circle</b>	<b>Compt. No.</b>	<b>Noti. Area in ha</b>	<b>Digitized Area in ha</b>	<b>Difference</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Teak Plantation Working Circle</b>	204	322.53	313.46	9.07
	205	219.74	203.42	16.33
	207	255.76	252.72	3.04
	208	198.7	194.63	4.07
	298	227.03	208.31	18.72
	299	276.8	280.52	-3.72
	380	220.54	210.85	9.69
	381	157.95	163.02	-5.07
	382	186.8	164.29	22.51
	383	131.58	128.07	3.51
	387	147.51	145.57	1.94
	393	180.11	186.85	-6.74
	408	186.55	180.93	5.62
	409	163.49	165.93	-2.44
	412	183.32	186.45	-3.13
	413	190.2	188.71	1.49
	426	204.76	197.64	7.12
	427	187.36	182.19	5.17
	428	193.09	192.00	1.09
	432	159.34	151.99	7.35
	433	160.08	160.28	-0.20
	435	166.32	170.54	-4.22
	436	169.15	171.24	-2.09
	439	192.44	206.13	-13.69
	441	194.65	178.14	16.51
	442	137.59	143.64	-6.05
	443	180.88	178.46	2.42
445	247.53	233.81	13.72	
	<b>Total</b>	<b>5441.80</b>	<b>5339.76</b>	<b>102.04</b>
<b>Selection cum Improvement Working Circle</b>	76	237.95	224.17	13.78
	77	242.40	178.74	63.66
	81	212.46	203.36	9.10
	82	192.51	216.83	-24.32
	83	207.44	171.79	35.65
	84	147.36	132.03	15.33
	85	197.48	190.25	7.23
	90	193.84	196.76	-2.92

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	91	267.40	282.51	-15.11
	194	239.57	209.04	30.53
	195	163.49	140.58	22.91
	196	198.70	200.09	-1.39
	197	227.83	212.86	14.97
	198	330.22	144.14	186.08
	199	316.06	487.53	-171.47
	200	265.07	269.93	-4.86
	201	279.23	273.69	5.54
	202	233.50	211.51	21.99
<b>Selection cum Improvement Working Circle</b>	203	213.27	211.56	1.71
	337	74.72	82.11	-7.39
	339	107.85	126.23	-18.38
	340	110.75	117.23	-6.48
	341	180.28	173.97	6.31
	342	166.60	168.07	-1.47
	343	132.74	123.17	9.57
	344	161.40	172.01	-10.61
	345	171.58	167.27	4.31
	346	102.50	117.07	-14.57
	347	192.57	190.41	2.16
	348	174.01	167.73	6.28
	349	134.35	140.96	-6.61
	350	126.54	142.45	-15.91
	351	209.05	193.37	15.68
	352	178.06	168.81	9.25
	353	156.21	146.65	9.56
	354	126.26	126.23	0.04
	355	108.05	93.29	14.76
	356	144.07	135.40	8.67
	357	136.78	142.77	-5.99
	358	167.16	161.46	5.70
	359	214.21	233.02	-18.81
	360	134.3	143.96	-9.66
	361	139.85	130.78	9.07
	362	175.97	172.64	3.33
	363	116.34	97.63	18.71
	364	196.67	191.04	5.63
	365	130.71	107.41	23.30
	366	142.29	121.63	20.66
367	183.65	188.06	-4.41	
368	187.37	168.00	19.37	
369	169.56	139.53	30.03	

1	2	3	4	5
	370	206.65	132.21	74.44
	371	138.70	120.24	18.46
	372	152.20	175.93	-23.73
	373	103.21	108.09	-4.88
	374	158.42	161.65	-3.23
	375	160.25	156.73	3.52
	376	173.20	184.85	-11.65
	377	161.87	150.54	11.33
	378	218.07	204.76	13.31
	379	101.84	132.99	-31.15
	384	123.08	106.91	16.17
	385	138.63	112.37	26.26
	386	154.79	156.59	-1.80
	388	186.20	193.06	-6.86
	389	155.89	156.00	-0.11
	390	112.33	114.79	-2.46
<b>Selection cum Improvement Working Circle</b>	391	131.70	140.23	-8.53
	392	177.85	172.77	5.08
	394	198.45	171.66	26.79
	395	193.70	184.83	8.87
	396	171.17	174.69	-3.52
	397	147.30	133.34	13.96
	401	156.81	142.51	14.30
	404	161.05	142.98	18.07
	405	149.32	146.63	2.69
	406	162.27	164.82	-2.55
	407	176.03	172.44	3.59
	410	154.99	158.89	-3.90
	411	152.97	143.45	9.52
	414	152.96	156.69	-3.73
	415	151.34	158.45	-7.11
	416	182.90	179.47	3.43
	417	176.44	174.05	2.39
	421	205.97	188.70	17.27
	422	123.01	110.00	13.01
	423	168.34	168.07	0.27
	424	207.19	200.78	6.41
	425	256.96	247.82	9.14
	429	226.21	227.79	-1.58
	430	173.20	169.88	3.32
	431	195.54	192.09	3.45
	434	186.13	187.94	-1.81
	437	124.24	126.72	-2.48

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	438	163.49	146.10	17.39
	440	154.87	151.53	3.34
	444	173.61	157.44	16.17
	446	138.09	139.56	-1.47
	447	179.68	173.91	5.77
	448	114.02	121.43	-7.41
	449	188.27	185.69	2.58
	450	167.58	151.69	15.89
	451	146.83	156.37	-9.54
	452	149.14	135.92	13.22
	453	172.29	165.56	6.73
	454	160.03	147.43	12.60
	455	103.60	128.81	-25.21
	456	213.67	196.28	17.39
	949	209.20	194.14	15.06
	950	141.42	144.12	-2.70
	951	230.16	231.87	-1.71
	952	257.40	254.41	2.99
	953	266.30	257.03	9.27
	954	206.40	178.13	28.27
	955	240.80	213.67	27.13
	Bamadehi Sur.No 133	16.60		
	<b>Total</b>	<b>20120.96</b>	<b>19444.24</b>	<b>676.72</b>
<b>Improvement Working Circle</b>	1033	372.32	354.10	18.22
	1034	218.10	210.46	7.64
	1035	210.65	200.97	9.68
	1036	189.40	173.45	15.95
	1037	158.60	162.83	-4.23
	1038	184.90	151.49	33.41
	1039	245.60	228.76	16.84
	1040	211.60	204.77	6.83
	1041	282.00	287.70	-5.70
	1042	243.60	243.24	0.36
	1043	252.91	270.30	-17.39
	1044	226.20	229.85	-3.65
	1045	223.40	179.44	43.96
	1046	170.00	168.37	1.63
	1047	270.30	267.82	2.48
	1048	282.90	274.07	8.83
	1049	228.60	236.05	-7.45
	1050	294.20	282.94	11.26
	1051	259.00	261.82	-2.82

1	2	3	4	5
	1052	271.50	266.53	4.97
	<b>Total</b>	<b>4795.75</b>	<b>4654.96</b>	<b>140.79</b>
<b>Protection Working Circle</b>	1	160.18	132.87	27.31
	2	159.99	141.73	18.26
	3	172.08	151.70	20.38
	4	132.55	122.37	10.18
	5	64.83	36.71	28.12
	6	321.70	167.21	154.49
	7	183.09	268.48	-85.39
	8	400.60	323.17	77.43
	9	321.22	325.74	-4.52
	10	142.99	202.86	-59.87
	11	243.89	240.07	3.82
	12	200.26	283.07	-82.81
	13	161.97	156.10	5.87
	14	295.00	269.14	25.86
	15	314.00	194.12	119.88
	16	292.24	262.05	30.19
	17	262.29	401.69	-139.40
	18	219.40	294.85	-75.45
	19	229.44	332.51	-103.07
	20	207.76	95.81	111.95
	21	6.87	176.92	-170.05
	22	149.10	145.85	3.25
	23	313.99	337.95	-23.96
	24	259.06	253.82	5.24
	25	162.16	171.96	-9.80
	26	379.89	363.51	16.38
	27	319.89	244.21	75.68
	28	366.78	408.77	-41.99
	29	285.3	278.01	7.29
	30	352.9	340.57	12.33
	31	275.89	260.29	15.60
	32	324.05	570.70	-246.65
	33	378	245.16	132.84
	Kulungana 33	104		
	Kulungana 34	84	76.02	7.98
	38	89.34	87.16	2.18
	39	327	342.10	-15.10
	40	304.3	278.87	25.43
	43	173.01	92.75	80.26

	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	44	220.57	240.48	-19.91
	45	343.23	313.47	29.76
	46	131.38	113.63	17.75
	47	164.02	228.17	-64.15
	48	142.16	162.64	-20.48
	49	354.45	337.16	17.29
	50	244.9	277.60	-32.70
	51	254.06	342.11	-88.05
	52	161.65	208.17	-46.52
	53	192.63	207.88	-15.25
	54	291.73	225.53	66.20
	55	288.54	235.66	52.88
	56	164.04	155.79	8.25
	57	111.2	106.69	4.51
	58	170.3	177.96	-7.66
	59	108.05	108.31	-0.26
	60	156.21	167.66	-11.45
	61	121.4	121.29	0.11
	62	114.52	152.24	-37.72
	63	184.53	173.61	10.92
	64	129.71	114.94	14.77
	65	197.04	195.60	1.44
	66	192.64	201.22	-8.58
	67	200.32	192.81	7.51
	68	147.63	176.33	-28.70
	69	174.99	141.81	33.18
	70	92.99	119.23	-26.24
	71	130.36	91.72	38.64
	72	126.86	217.48	-90.62
	73	228.84	221.59	7.25
	74	206.79	195.90	10.89
	75	282.06	262.53	19.53
	78	210.84	206.45	4.39
	79	218.93	226.65	-7.72
	80	228.64	218.62	10.02
	86	186.15	186.55	-0.40
	87	188.99	184.10	4.89
	88	212.87	208.62	4.25
	89	210.43	203.90	6.53
	790	264.7	258.01	6.69
	791	369.1	381.17	-12.07
	792	240.8	224.76	16.04
	793	214.9	220.10	-5.20

1	2	3	4	5
	Bhilkheda 20	4.47		
	<b>Total</b>	<b>17893.64</b>	<b>17783.05</b>	<b>110.59</b>
<b>Afforestation Working Circle</b>	C class 5	67.2	94.34	-27.14
	C class 6	281.7	286.13	-4.43
	C class 7	281.7	272.11	9.59
	C class 8	327.7	330.05	-2.35
	Girguti 18	262.74	252.99	9.75
	Girguti 19	397.32	158.70	238.62
	Ambapati 20	208.36	203.10	14.90
	Ambapati 21	97.93	189.33	-91.40
	Tekda Nagzia22	58.3	84.56	6.44
	Tekda Nagzia23	32.91	73.77	10.23
	Jamli 24	317.33		
	Kundi 25	205.66	280.74	-45.74
	Kundi 26		221.32	
	Chauramal 27	532.63	185.35	347.28
	Chauramal 28		169.41	
	Sakhri Cikhla29	52.81	22.77	30.04
	Dharamdoha 30	185	157.35	27.65
	Satirui-phata 31	296.98	183.76	113.22
	Satirui-phata 32		76.24	
	1053	157	155.65	1.35
	1054	311.2	310.53	0.67
	1055	203.1	213.50	-10.40
	1056	201.9	204.06	-2.16
	1057	316.04	321.68	-5.64
	1058	270.38	293.33	-22.95
	1059	170.25	201.27	-31.02
	1060	151.8	155.35	-3.55
	1061	245.71	236.13	9.58
	1062	212.88	195.99	16.89
	1063	172.73	174.33	-1.60
	1064	250.34	265.84	-15.50
	1065	200.67	170.12	30.55
	1066	238.7	252.96	-14.26
1067	282.31	226.56	55.75	
1068	322.9	351.72	-28.82	
1069	161.95	148.78	13.18	
1070	314.4	319.12	-4.72	
Ex-Jahagir 24R		68.62		
Ex-Jahagir 24L	205.66	150.24	55.42	
	<b>Total</b>	<b>7835.53</b>	<b>7657.81</b>	<b>177.72</b>
<b>Grand Total</b>		<b>56087.62</b>	<b>54879.82</b>	<b>1207.80</b>

**Appendix No. XVII**  
**Allotment Of Compartments To Various W.C. With Felling Series**

<b>Sr. No.</b>	<b>Name of W.C.</b>	<b>Felling Series</b>	<b>Range</b>	<b>Compartment No.</b>	<b>Area in Hectare</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	Teak. Plantation W.C	<i>i) Rahu</i>	<i>Jarida</i>	408	186.55
				409	163.49
				412	183.32
				413	190.20
				426	204.76
				427	187.36
				428	193.03
				<b>Total</b>	<b>1308.71</b>
		<i>ii) Khari</i>	<i>Jarida</i>	380	220.54
				381	157.95
				382	186.80
				383	131.58
				387	147.51
				<b>Total</b>	<b>844.38</b>
		<i>iii) Sumita</i>	<i>Jarida</i>	393	180.11
				432	159.34
				433	160.08
				435	166.32
				436	169.15
				439	192.44
				441	194.65
				442	137.59
				443	180.88
				445	247.53
				<b>Total</b>	<b>1788.09</b>
				<i>iv) Taora</i>	<i>Ghatang</i>
		205	219.74		
		207	255.76		
		208	198.70		
		298	227.03		
		299	276.80		
		<b>Total</b>	<b>1500.56</b>		
		<b>Grand Total of W.C</b>			
2	Selection Cum Improvement W.C.	<i>i) Butida</i>	<i>Jarida</i>	337	74.72
				339	107.85
				340	110.75
				341	180.28

1	2	3	4	5	6
2	Selection Cum Improvement W.C.	<i>i) Butida</i>	<i>Jarida</i>	342	166.60
				343	132.74
				344	161.40
				345	171.58
				346	102.50
				347	192.57
				348	174.01
				349	134.35
				350	126.54
				351	209.05
				352	178.06
				353	156.21
				354	126.26
				355	108.05
				356	144.07
				357	136.78
				358	167.16
				359	214.21
				360	134.30
				363	116.34
				364	196.67
365	130.71				
366	142.29				
				Bamadehi S. No.133 (C.A.A.)	16.60
				<b>Total</b>	<b>4012.65</b>
		<i>ii) Khari</i>	<i>Jarida</i>	361	139.85
				362	175.97
				367	183.65
				368	187.37
				369	169.56
				370	206.65
				371	138.70
				372	152.20
				373	103.21
				374	158.42
				375	160.25
				376	173.20
				377	161.87
				378	218.07
				379	101.84
384	123.08				
385	138.63				
386	154.79				

1	2	3	4	5	6	
2	Selection Cum Improvement W.C.			388	186.20	
				<b>Total</b>	<b>3033.53</b>	
		<i>iii) Sumita</i>	<i>Jarida</i>	389	155.89	
				390	112.33	
				391	131.70	
				392	177.65	
				394	198.45	
				437	124.24	
				438	163.49	
				440	154.87	
				444	173.61	
				446	138.09	
				447	179.68	
				448	114.02	
				449	188.27	
				450	167.58	
				451	146.83	
				452	149.14	
				453	172.29	
				454	160.03	
				455	103.60	
				456	213.67	
				<b>Total</b>	<b>3125.43</b>	
			<i>iv) Rahu</i>	<i>Jarida</i>	395	193.70
					396	171.17
					397	147.30
					401	156.81
					404	161.05
					405	149.32
					406	162.27
					407	176.03
					410	154.99
					411	152.97
			414	152.96		
			415	151.34		
			416	182.90		
			417	176.44		
			421	205.97		
			422	123.01		
			423	168.34		
			424	207.19		
			425	256.96		
			429	226.21		
			430	173.20		

1	2	3	4	5	6		
2	Selection Cum Improvement W.C.			431	195.54		
				434	186.13		
				<b>Total</b>	<b>4031.80</b>		
		<i>v) Taora</i>	<i>Ghatang</i>			76	237.95
						77	242.40
						81	212.46
						82	192.51
						83	207.44
						84	147.36
						85	197.48
						90	193.84
						91	267.49
						194	239.57
						195	163.49
						196	198.70
						197	227.83
						198	330.22
						199	316.06
						200	265.07
						201	279.23
		202	233.50				
		203	213.27				
		<b>Total</b>	<b>4365.87</b>				
		<i>vi) Belkund</i>	<i>Anjangoan</i>			949	209.20
						950	141.42
						951	230.16
						952	257.40
953	266.30						
954	206.40						
955	240.80						
<b>Total</b>	<b>1551.68</b>						
<b>Grand Total of W.C.</b>					<b>20120.96</b>		
3	Improvement W.C.	<i>ij) Dahegaon</i>	<i>Anjangoan</i>	1033	372.32		
				1034	218.10		
				1035	210.62		
				1036	189.40		
				1037	158.60		
				1038	184.90		
				1039	245.60		
				1040	211.60		
				1041	282.00		
				1042	243.60		
				1043	252.91		
				1044	226.20		

1	2	3	4	5	6	
				1045	223.40	
				1046	170.00	
				1047	270.30	
				1048	282.90	
				1049	228.60	
				1050	294.20	
				1051	259.00	
				1052	271.50	
				<b>Grand Total of W.C.</b>	<b>4795.75</b>	
4	Protection W.C.	<i>i) Bihali</i>	<i>Ghatang</i>	1	160.18	
				2	159.99	
				3	172.08	
				9	321.22	
				10	142.99	
				58	170.30	
				59	108.05	
				60	156.21	
				61	121.40	
				62	114.52	
				63	184.53	
				64	129.71	
				65	197.05	
				66	192.64	
				67	200.32	
				68	147.63	
				69	174.99	
				70	92.99	
				71	130.36	
					<b>Total</b>	<b>3495.67</b>
					<i>ii) Ghatang</i>	<i>Ghatnag</i>
			52	161.65		
			53	192.63		
			54	291.73		
			55	288.54		
			56	164.04		
			57	111.20		
	72	126.86				
	73	228.84				
	74	206.79				
	75	282.06				
	78	210.84				
	79	218.93				
	80	228.64				

1	2	3	4	5	6					
4	Protection W.C.	ii) Ghatang	Ghatnag	86	186.15					
				87	188.99					
				88	212.87					
				89	210.43					
				<b>Total</b>	<b>3446.42</b>					
						4	132.55			
						5	64.83			
						6	321.70			
						7	183.09			
						8	400.60			
						11	243.89			
						12	200.26			
						13	161.97			
						14	295.00			
						15	314.00			
						16	292.24			
						17	262.29			
						18	291.40			
						19	229.44			
						20	207.76			
						21	6.87			
						22	149.10			
						23	313.99			
						<i>Bhilkheda S.No. 20 (C.A.A.)</i>				4.47
						<b>Total</b>				<b>4075.45</b>
				iv) Chikhaldara	Chikhaldara	24	259.06			
						25	162.16			
						26	379.89			
						39	327.00			
						40	304.30			
						43	173.01			
						44	220.57			
						45	343.23			
46	131.38									
47	164.02									
48	142.16									
49	354.45									
50	244.90									
<i>Bhilkheda S.No. 20 (C.A.A.)</i>						9.46				
<b>Total</b>						<b>3215.59</b>				
		v) Vairat	Chikhaldara	27	319.89					
				28	366.78					
				29	285.30					
				30	352.90					

1	2	3	4	5	6
4	Protection W.C.	<i>v) Vairat</i>	<i>Chikhaldara</i>	31	275.89
				32	324.05
				33	378.00
				38	89.34
				790	264.70
				791	369.10
				792	240.80
				793	214.90
				Kulangana Ex-Jah	188.00
				<b>Total</b>	<b>3481.65</b>
<b>Grand Total of W.C.</b>					<b>17903.10</b>
5	Afforestation W.C.	<i>i) Pipadari</i>	<i>Anjangaon</i>	1053	157.00
				1054	311.20
				1055	203.10
				1056	201.90
				1057	316.04
				1058	270.38
				1059	170.25
				1060	151.80
				1061	245.71
				<b>Total</b>	<b>2027.38</b>
		<i>ii) Khirpani</i>	<i>Anjangaon</i>	1062	212.88
				1063	172.73
				1064	250.34
				1065	200.67
				1066	283.70
				1067	282.31
				1068	322.90
				1069	161.95
				1070	314.40
				<b>Total</b>	<b>2201.88</b>
		<i>iii) Chinchona</i>	<i>Anjangaon</i>	S.No. 5	67.20
				S.No. 6	281.70
				S.No. 7	281.70
				S.No. 8	327.70
				<b>Total</b>	<b>958.30</b>
		<i>iv) Girguti/ Ambapati</i>	<i>Anjangaon</i>	<i>Tekda Nagzira</i>	91.21
				<i>Girguti</i>	660.06
				<i>Ambapati</i>	306.29
				<i>Kundi</i>	205.66
				<i>Jamli(R)</i>	317.33
<b>Total</b>	<b>1580.55</b>				

1	2	3	4	5	6
		<i>v) Dharamdoh</i>	<i>Anjaongaon</i>	<i>Chouryamal</i>	532.63
				<i>Sakri-Chikhalpati</i>	52.81
				<i>Dharamdoh,</i>	185.00
				<i>Sattiruiyata</i>	296.98
				<b>Total</b>	<b>1067.42</b>
<b>Grand Total of W.C</b>					<b>7835.53</b>
<b>Grand Total Division</b>					<b>56097.06</b>



**Appendix No. XVIII**

**Abstract Of Compartments Allotted To Various W.C.  
With Felling Series And Ranges**

<b>Sr. No.</b>	<b>Name of W.C.</b>	<b>Felling Series</b>	<b>Range</b>	<b>Total Area</b>	<b>Compartment No.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	Teak Plantation W.C.	<i>i) Rahu</i>	<i>Jarida</i>	1308.71	408,409,412,413, 426 to 428
		<i>ii) Khari</i>	<i>Jarida</i>	844.36	380 to 383,387
		<i>iii) Sumita</i>	<i>Jarida</i>	1788.09	393,432,433,435, 436,439,441,442, 443,445
		<i>iv) Taora</i>	<i>Ghatang</i>	1500.56	204,205,207,208, 298,299
		<b>Total</b>		<b>5441.72</b>	
2	Selection Cum Improvement W.C.	<i>i) Butida</i>	<i>Jarida</i>	3996.05	337,339 to 360, 363 to 366
				16.60	Bamadehi S. No. 133 (C.A.A)
		<b>Total</b>		<b>4012.65</b>	
		<i>ii) Khari</i>	<i>Jarida</i>	3033.53	361,362, 367 to 379, 383 to 386,388
		<i>iii) Sumita</i>	<i>Jarida</i>	3125.43	389to92,394,437, 438,440 444,446 to 456
		<i>iv) Rahu</i>	<i>Jarida</i>	4031.80	395 to 397,401,404 to 407, 410,411, 414 to 417, 421 to 425, 429 to 431, 434
		<i>v) Taora</i>	<i>Ghatang</i>	4365.87	76,77,81to85,90, 91,194 to 203
		<i>vi) Belkund</i>	<i>Anjangoan</i>	1551.68	949 to 955
		<b>Total</b>		<b>20120.96</b>	
3	Improvement W.C.	<i>i) Dahegaon</i>	<i>Anjangoan</i>	4795.75	1033 to 1052
		<b>Total</b>		<b>4795.75</b>	

1	2	3	4	5	6
4	Protection W.C.	i) <i>Ghatang</i>	<i>Ghatang</i>	3,446.74	51 to 57 ,72 to 75, 78 to 80, 86 to 89
		ii) <i>Bihali</i>	<i>Ghatang</i>	3,495.67	1to3, 9,10, 58 to 71
		iii) <i>Manbhang</i>	<i>Chikhaldara</i>	4070.98	4 to 8,11 to 23
				4.47 9.46	<i>Bhilkheda</i> S.No. 20 (C.A.L.)
		iv) <i>Chikhaldara</i>	<i>Chikhaldara</i>	3206.13	24 to 26,39,40, 43 to 50
		v) <i>Vairat</i>	<i>Chikhaldara</i>	3669.65	27 to 33,38, 790 to 793, <i>Kulangana,</i> <i>Ex-Jahagir</i>
		<b>Total</b>			<b>17903.10</b>
5	Afforestation W.C.	i) <i>Pipadari</i>	<i>Anjangaon</i>	2027.38	1053 to 1061
		ii) <i>Khirpani</i>	<i>Anjangaon</i>	2201.88	1062 to 1070
		iii) <i>Chinchona</i>	<i>Anjangaon</i>	958.30	Survey No.5 to 8
		iv) <i>Girguti/ Ambapati</i>	<i>Anjangaon</i>	1580.55	<i>Tekda Nagzira , Girguti, Ambapati, Kundi, Jamli(R)</i>
		v) <i>Dharamdoh</i>	<i>Anjangaon</i>	1067.42	<i>Chouryamal, Sakri- Chikhhalpati, Dharamdoh, Sattirupata</i>
		<b>Total</b>			<b>7835.53</b>
		<b>Grand Total</b>		<b>56097.06</b>	



**Appendix No. XIX**

**(a) Statement Showing The Sequence Of Felling In Selection Cum Improvement Working Circle.**

<b>Name of F.S.</b>	<b>Year of working</b>	<b>Coupe No.</b>	<b>Comptt. No.</b>	<b>Area in hect.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<i>Taora</i>	2006-07	I	76	237.95
	2007-08	II	77	242.4
	2008-09	III	198	160.20
	2009-10	IV	198	170.02
	2010-11	V	84	147.36
	2011-12	VI	81	212.46
	2012-13	VII	82	192.51
	2013-14	VIII	83	207.44
	2014-15	IX	85	197.48
	2015-16	X	196	198.7
	2016-17	XI	195	163.49
	2017-18	XII	194	239.57
	2018-19	XIII	91	267.49
	2019-20	XIV	90	193.84
	2020-21	XV	203	213.27
	2021-22	XVI	202	233.50
	2022-23	XVII	201	279.23
	2023-24	XVIII	197	227.83
	2024-25	XIX	200	265.07
	2025-26	XX	199	316.06
<b>SUB TOTAL</b>				<b>6365.87</b>
<i>Butida</i>	2006-07	I	354	126.26
			355	108.05
	2007-08	II	337	74.72
	2008-09	III	350	126.54
	2009-10	IV	364	196.67
	2010-11	V	358	167.16
			359	214.21
	2011-12	VI	363	116.34
	2012-13	VII	365	130.71
	2013-14	VIII	366	142.29
	2014-15	IX	356	144.07
	2015-16	X	360	134.3
	2016-17	XI	342	166.6
	2017-18	XII	341	180.28
	2018-19	XIII	343	132.74
			345	171.58
2019-20	XIV	344	161.40	
		346	102.50	
2020-21	XV	340	110.75	
		347	192.57	

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	2021-22	XVI	348	174.01
			352	178.06
	2022-23	XVII	339	107.85
	2023-24	XVIII	349	134.35
	2024-25	XIX	351	209.05
	2025-26	XX	353	156.20
			357	136.78
			<b>SUB TOTAL</b>	<b>4012.65</b>
<i>Khari</i>	2006-07	I	379	101.84
	2007-08	II	377	161.87
	2008-09	III	371	138.7
	2009-10	IV	369	169.56
	2010-11	V	370	206.65
	2011-12	VI	388	186.20
	2012-13	VII	385	138.63
	2013-14	VIII	362	175.97
	2014-15	IX	361	139.85
	2015-16	X	386	154.79
	2016-17	XI	374	158.42
	2017-18	XII	376	173.20
	2018-19	XIII	372	152.20
	2019-20	XIV	368	187.37
	2020-21	XV	367	183.65
	2021-22	XVI	378 P	112.02
	2022-23	XVII	378 P	206.05
	2023-24	XVIII	384	123.08
	2024-25	XIX	373	103.21
	2025-26	XX	375	160.25
			<b>SUB TOTAL</b>	<b>3033.53</b>
<i>Sumita</i>	2006-07	I	447	179.68
	2007-08	II	444	173.61
	2008-09	III	446	138.09
	2009-10	IV	448	114.02
	2010-11	V	449	188.27
	2011-12	VI	450	167.58
	2012-13	VII	452	149.14
	2013-14	VIII	451	146.83
	2014-15	IX	453	172.29
	2015-16	X	455	103.60
	2016-17	XI	454	160.03
	2017-18	XII	456	213.67
	2018-19	XIII	394	198.45
	2019-20	XIV	390	112.33
	2020-21	XV	392	177.65
	2021-22	XVI	391	131.70
	2022-23	XVII	440	154.87
	2023-24	XVIII	389	155.89
	2024-25	XIX	437	124.24
	2025-26	XX	438	163.49
			<b>SUB TOTAL</b>	<b>3125.43</b>

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<i>Rahu</i>	2006-07	I	410	154.99
	2007-08	II	411	152.97
	2008-09	III	421	205.97
	2009-10	IV	434	186.13
	2010-11	V	417	176.44
	2011-12	VI	429	226.21
	2012-13	VII	430	173.20
	2013-14	VIII	431	195.54
	2014-15	IX	404	161.05
	2015-16	X	405	149.32
	2016-17	XI	416	182.9
	2017-18	XII	407	176.03
	2018-19	XIII	406	162.27
	2019-20	XIV	396	171.17
	2020-21	XV	397	147.30
	2021-22	XVI	395	193.7
			401	156.81
	2022-23	XVII	414	152.96
			415	151.34
	2023-24	XVIII	424	207.19
2024-25	XIX	422	123.01	
		423	168.34	
2025-26	XX	425	256.96	
<b>SUB TOTAL</b>				<b>4031.80</b>
<i>Belkund</i>	2006-07	I	955 P	62.43
	2007-08	II	955 P	59.39
	2008-09	III	955 P	60.71
	2009-10	IV	955 P	58.27
	2010-11	V	954 P	101.45
	2011-12	VI	954 P	104.95
	2012-13	VII	953 P	65.82
	2013-14	VIII	953 P	62.66
	2014-15	IX	953 P	67.28
	2015-16	X	953 P	70.54
	2016-17	XI	952 P	67.55
	2017-18	XII	952 P	62.31
	2018-19	XIII	952 P	66.43
	2019-20	XIV	952 P	62.11
	2020-21	XV	950 P	72.38
	2021-22	XVI	950 P	69.04
	2022-23	XVII	949 P	108.96
	2023-24	XVIII	949 P	100.24
	2024-25	XIX	951 P	118.23
			951 P	111.93
2025-26	XX	951 P	111.93	
<b>SUB TOTAL</b>				<b>1561.68</b>
<b>GRAND TOTAL</b>				<b>20120.9</b>
				<b>6</b>

**(b) Statement Showing The Sequence Of Felling In  
Teak Plantation Working Circle.**

<b>Name of F.S.</b>	<b>Year of working</b>	<b>Coupe No.</b>	<b>Comptt. No.</b>	<b>Area in hect.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<i>Taora Teak Palntation</i>	2006-07	I	204 P	85.66
	2007-08	II	204 P	72.56
	2008-09	III	204 P	88.78
	2009-10	IV	204 P	76.53
	2010-11	V	205 P	76.15
	2011-12	VI	205 P	69.28
	2012-13	VII	205 P	74.31
	2013-14	VIII	207 P	89.43
	2014-15	IX	207 P	81.71
	2015-16	X	207 P	84.62
	2016-17	XI	208 P	72.16
	2017-18	XII	208 P	60.73
	2018-19	XIII	208 P	65.81
	2019-20	XIV	298 P	81.92
	2020-21	XV	298 P	69.47
	2021-22	XVI	298 P	75.64
	2022-23	XVII	299 P	73.15
	2023-24	XVIII	299 P	65.76
	2024-25	XIX	299 P	72.24
	2025-26	XX	299 P	65.65
<b>SUB TOTAL</b>				<b>1500.56</b>
<i>KhariTeak Platation</i>	2006-07	I	380 P	47.53
	2007-08	II	380 P	42.86
	2008-09	III	380 P	48.43
	2009-10	IV	380 P	40.38
	2010-11	V	380 P	41.34
	2011-12	VI	381 P	40.48
	2012-13	VII	381 P	37.17
	2013-14	VIII	381 P	42.23
	2014-15	IX	381 P	38.07
	2015-16	X	382 P	39.48
	2016-17	XI	382 P	35.53
	2017-18	XII	382 P	37.36
	2018-19	XIII	382 P	40.15
	2019-20	XIV	382 P	32.28
	2020-21	XV	383 P	45.25
	2021-22	XVI	383 P	39.49.
	2022-23	XVII	383 P	46.84
	2023-24	XVIII	387 P	51.73
	2024-25	XIX	387 P	46.08
	2025-26	XX	387 P	49.70
<b>SUB TOTAL</b>				<b>844.38</b>

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<i>Sumita</i> Teak Plantation	2006-07	I	445p	128.43
	2007-08	II	445p	119.10
	2008-09	III	432p	85.22
	2009-10	IV	432p	74.12
	2010-11	V	393p	95.47
	2011-12	VI	393p	84.64
	2012-13	VII	435p	87.27
	2013-14	VIII	435p	79.05
	2014-15	IX	433p	84.49
	2015-16	X	433p	75.59
	2016-17	XI	436p	86.92
	2017-18	XII	436p	82.23
	2018-19	XIII	439p	99.61
	2019-20	XIV	439p	92.83
	2020-21	XV	442p	71.38
	2021-22	XVI	442p	66.21
	2022-23	XVII	441p	101.32
	2023-24	XVIII	441p	93.33
	2024-25	XIX	443p	95.41
	2025-26	XX	443p	90.47
<b>SUB TOTAL</b>				<b>1788.09</b>
<i>Rahu</i> Teak Plantation	2006-07	I	426 P	71.06
	2007-08	II	426 P	64.42
	2008-09	III	426 P	69.28
	2009-10	IV	412 P	65.53
	2010-11	V	412 P	59.72
	2011-12	VI	412 P	58.07
	2012-13	VII	427 P	63.45
	2013-14	VIII	427 P	59.33
	2014-15	IX	427 P	62.58
	2015-16	X	428 P	68.65
	2016-17	XI	428 P	61.16
	2017-18	XII	428 P	63.22
	2018-19	XIII	413 P	66.40
	2019-20	XIV	413 P	59.34
	2020-21	XV	413 P	64.46
	2021-22	XVI	408 P	65.18
	2022-23	XVII	408 P	58.34
	2023-24	XVIII	408 P	63.03
	2024-25	XIX	409 P	83.45
	2025-26	XX	409 P	80.04
<b>SUB TOTAL</b>				<b>1308.71</b>
<b>GRAND TOTAL</b>				<b>5441.74</b>

**(c) Statement showing the sequence of felling in  
Improvement Working Circle.**

<b>Name of F.S.</b>	<b>Year of working</b>	<b>Coupe No.</b>	<b>Comptt. No.</b>	<b>Area in hect.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<i>Dahegaon</i>	2006-2007	I	1040	211.60
	2007-2008	II	1034	218.10
	2008-2009	III	1037	158.60
	2009-2010	IV	1050	294.20
	2010-2011	V	1047	270.30
	2011-2012	VI	1035	210.62
	2012-2013	VII	1033	372.32
	2013-2014	VIII	1043	252.91
	2014-2015	IX	1051	259.00
	2015-2016	X	1052	271.50
	2016-2017	XI	1045	223.40
	2017-2018	XII	1044	226.20
	2018-2019	XIII	1046	170.00
	2019-2020	XIV	1041	282.00
	2020-2021	XV	1036	189.40
	2021-2022	XVI	1049	228.60
	2022-2023	XVII	1048	282.90
	2023-2024	XVIII	1038	184.90
	2024-2025	XIX	1042	243.60
	2025-2026	XX	1039	245.60
<b>SUB TOTAL</b>				<b>4795.75</b>
<b>GRAND TOTAL</b>				<b>4795.75</b>

**(d) Statement Showing The Sequence Of Working In  
Afforestation Working Circle.**

<b>Name of F.S.</b>	<b>Year of working</b>	<b>Coupe No.</b>	<b>Comptt. No./Village Sur.No.</b>	<b>Area in hect.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<i>Khirpani</i>	2006-2007	I	1063 P	85.73
	2007-2008	II	1064 P	120.00
	2008-2009	III	1065 P	100.00
	2009-2010	IV	1067 P	142.00
	2010-2011	V	1068 P	105.00
	2011-2012	VI	1068 P	110.90
	2012-2013	VII	1070 P	105.00
	2013-2014	VIII	1070 P	107.40
	2014-2015	IX	1064 P	130.34
	2015-2016	X	1065 P	100.67
	2016-2017	XI	1067 P	140.31
	2017-2018	XII	1062 P	100.00
	2018-2019	XIII	1068 P	107.00
	2019-2020	XIV	1069 P	80.95
	2020-2021	XV	1070 P	102.00
	2021-2022	XVI	1069 P	81.00
	2022-2023	XVII	1066 P	136.70
	2023-2024	XVIII	1066 P	147.00
	2024-2025	XIX	1063 P	87.00
	2025-2026	XX	1062 P	112.88
<b>SUB TOTAL</b>				<b>2201.88</b>
<i>Pipadari</i>	2006-2007	I	1059 P	75.00
	2007-2008	II	1058 P	125.00
	2008-2009	III	1056 P	96.00
	2009-2010	IV	1056 P	105.90
	2010-2011	V	1054 P	96.20
	2011-2012	VI	1055 P	100.00
	2012-2013	VII	1055 P	103.10
	2013-2014	VIII	1054 P	110.00
	2014-2015	IX	1054 P	105.00
	2015-2016	X	1053 P	85.00
	2016-2017	XI	1061 P	115.71
	2017-2018	XII	1060 P	75.00
	2018-2019	XIII	1060 P	76.80
	2019-2020	XIV	1061 P	130.00
	2020-2021	XV	1053 P	72.00
	2021-2022	XVI	1057 P	105.00
	2022-2023	XVII	1057 P	110.00
	2023-2024	XVIII	1057 P	101.04
	2024-2025	XIX	1059 P	95.25
	2025-2026	XX	1058 P	145.38
<b>SUB TOTAL</b>				<b>2027.38</b>

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<i>Chinchona</i>	2006-2007	I	<i>Chinchona-6</i>	41.00
	2007-2008	II	<i>Chinchona-6</i>	44.00
	2008-2009	III	<i>Chinchona-6</i>	67.20
	2009-2010	IV	<i>Chinchona-6</i>	46.00
	2010-2011	V	<i>Chinchona-6</i>	46.00
	2011-2012	VI	<i>Chinchona-6</i>	50.00
	2012-2013	VII	<i>Chinchona-6</i>	52.00
	2013-2014	VIII	<i>Chinchona-6</i>	42.00
	2014-2015	IX	<i>Chinchona-6</i>	42.00
	2015-2016	X	<i>Chinchona-6</i>	45.70
	2016-2017	XI	<i>Chinchona-6</i>	48.00
	2017-2018	XII	<i>Chinchona-6</i>	45.00
	2018-2019	XIII	<i>Chinchona-6</i>	50.00
	2019-2020	XIV	<i>Chinchona-6</i>	55.00
	2020-2021	XV	<i>Chinchona-6</i>	46.70
	2021-2022	XVI	<i>Chinchona-6</i>	41.00
	2022-2023	XVII	<i>Chinchona-6</i>	61.70
	2023-2024	XVIII	<i>Chinchona-6</i>	42.00
	2024-2025	XIX	<i>Chinchona-6</i>	50.00
	2025-2026	XX	<i>Chinchona-6</i>	43.00
			<b>SUB TOTAL</b>	<b>958.30</b>
<i>Girguti / Ambapati</i>	2006-2007	I	<i>Girguti-122P</i>	90.74
	2007-2008	II	<i>Girguti-122P</i>	92.00
	2008-2009	III	<i>Girguti 122P</i>	80.00
	2009-2010	IV	<i>Ambapati-7P</i>	65.00
	2010-2011	V	<i>Ambapati-7P</i>	80.00
	2011-2012	VI	<i>Ambapati-7 P</i>	33.36
	2012-2013	VII	<i>Ambapati-20,49</i>	97.93
	2013-2014	VIII	<i>Kundi -1P</i>	62.66
	2014-2015	IX	<i>Kundi -1P</i>	65.00
	2015-2016	X	<i>Kundi-1P</i>	78.00
	2016-2017	XI	<i>Tekda Nagzira 1,11,40,42,43</i>	91.21
	2017-2018	XII	<i>Jamali-16P</i>	85.00
	2018-2019	XIII	<i>Jamali-16P</i>	72.00
	2019-2020	XIV	<i>Jamali-16P</i>	80.00
	2020-2021	XV	<i>Jamali-16P</i>	80.33
	2021-2022	XVI	<i>Girguti -23P</i>	32.00
	2022-2023	XVII	<i>Girguti-23P</i>	75.00
	2023-2024	XVIII	<i>Girguti-23P</i>	75.32
	2024-2025	XIX	<i>Girguti-23P</i>	85.00
	2025-2026	XX	<i>Girguti-23P</i>	80.00
			<b>SUB TOTAL</b>	<b>1580.55</b>

<b>Name of F.S.</b>	<b>Year of Working</b>	<b>Coupe No.</b>	<b>Comptt. No./Village Sur.No.</b>	<b>Area of Coupe</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>7</b>
<i>Dharamdoh</i>	2006-2007	I	<i>Sakri-chikhalpati-33,35</i>	52.81
	2007-2008	II	<i>Dharamdoh-80P</i>	48.00
	2008-2009	III	<i>Dharamdoh-80P</i>	50.00
	2009-2010	IV	<i>Dharamdoh-80P</i>	44.00
	2010-2011	V	<i>Dharamdoh-80P</i>	43.00
	2011-2012	VI	<i>Sattiruipatha-35,74</i>	76.78
	2012-2013	VII	<i>Sattiruipatha2P</i>	75.00
	2013-2014	VIII	<i>Sattiruipatha2P</i>	47.00
	2014-2015	IX	<i>Sattiruipatha2P</i>	48.20
	2015-2016	X	<i>Sattiruipatha2P</i>	50.00
	2016-2017	XI	<i>Chouryamal -1P</i>	58.00
	2017-2018	XII	<i>Chouryamal -1P</i>	64.00
	2018-2019	XIII	<i>Chouryamal -1P</i>	48.00
	2019-2020	XIV	<i>Chouryamal -1P</i>	48.00
	2020-2021	XV	<i>Chouryamal -1P</i>	58.00
	2021-2022	XVI	<i>Chouryamal -1P</i>	55.00
	2022-2023	XVII	<i>Chouryamal -1P</i>	55.00
	2023-2024	XVIII	<i>Chouryamal -1P</i>	52.00
	2024-2025	XIX	<i>Chouryamal -1P</i>	52.00
	2025-2026	XX	<i>Chouryamal -1P</i>	42.63
			<b>SUB TOTAL :</b>	<b>1067.42</b>
			<b>GRAND TOTAL :</b>	<b>7835.53</b>

**(e) Statement Showing The Sequence Of Coupe Working In Protection Working Circle.**

<b>Sr. No.</b>	<b>Name of F.S.</b>	<b>Year</b>	<b>Coupe No.</b>	<b>Compartment No.</b>	<b>Area in ha.</b>
<b>1</b>	<b>Ghatang</b>	2016-2017	I	75	282.06
			I	78	210.84
		2017-2018	II	74	206.79
			II	79	218.93
		2018-2019	III	86	186.15
			III	80	228.64
		2019-2020	IV	55	288.54
		2020-2021	V	88	312.87
			V	87	188.99
		2021-2022	VI	51	254.06
			VI	89	210.43
		2022-2023	VII	53	192.63
			VII	52	161.65
		2023-2024	VIII	54	291.73
		2024-2025	IX	56	164.04
			IX	57	111.20
2025-2026	X	73	228.84		
	X	72	226.86		
			<b>SUB TOTAL :</b>	<b>3446.42</b>	
<b>2</b>	<b>Bihali</b>	2016-2017	I	70	92.99
			I	71	130.36
		2017-2018	II	68	147.63
			II	69	174.99
		2018-2019	III	58	170.30
			III	61	121.40
		2019-2020	IV	59	108.05
			IV	60	156.21
		2020-2021	V	10	145.99
		2021-2022	VI	9	321.22
			VI	62	114.52
		2022-2023	VII	63	184.53
			VII	67	200.32
		2023-2024	VIII	64	129.71
			VIII	66	192.64
		2024-2025	IX	1	160.18
	IX	65	197.05		
2025-2026	X	2	159.99		
	X	3	172.08		
			<b>SUB TOTAL :</b>	<b>3495.67</b>	

<b>Sr. No.</b>	<b>Name of F.S.</b>	<b>Year</b>	<b>Coupe No.</b>	<b>Compartment No.</b>	<b>Area in Ha.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>3</b>	<b>Manbhanga</b>	2016-2017	I	8	400.00
		2017-2018	II	4,5&6	519.09
		2018-2019	III	7,12	383.35
		2019-2020	IV	11,13	405.86
		2020-2021	V	14,15	609.00
		2021-2022	VI	16,17	554.53
		2022-2023	VII	18,19	520.84
		2023-2024	VIII	23	313.99
		2024-2025	IX	22	149.10
		2025-2026	X	20,21 and Sr.No. 20	224.09
				<b>SUB TOTAL</b>	<b>4084.91</b>
<b>4</b>	<b>Chikhaldara</b>	2016-2017	I	24	259.06
		2017-2018	II	26	378.89
		2018-2019	III	39	327.00
		2019-2020	IV	40	304.30
		2020-2021	V	43,44	393.58
		2021-2022	VI	25,46	293.54
		2022-2023	VII	45	343.23
		2023-2024	VIII	47	164.02
		2024-2025	IX	49	345.45
		2025-2026	X	48,50	387.06
				<b>SUB TOTAL</b>	<b>3206.13</b>
<b>5</b>	<b>Vairat</b>	2016-2017	I	27	319.89
		2017-2018	II	28	366.78
		2018-2019	III	29,31	561.91
		2019-2020	IV	30	352.90
		2020-2021	V	<i>Kulangana 32(Ex-Jah)</i>	512.05
		2021-2022	VI	38	89.34
		2022-2023	VII	33	378.00
		2023-2024	VIII	790	264.70
		2024-2025	IX	791	369.10
		2025-2026	X	792,793	455.70
				<b>SUB TOTAL :</b>	<b>3481.65</b>
				<b>GRAND TOTAL :</b>	<b>17903.10</b>



**Apeendix No. XX**

**Statement Showing The Sequence Of C.B.O. Cleaning & Thinning In S. C. I. Working Circle, Teak Plantation Working Circle, Improvement Working Circle And Afforestation Working Circle**

<b>Coupe No.</b>	<b>C.B.O. Year of working</b>	<b>6<sup>th</sup> Year Cleaning Year of Working</b>	<b>11<sup>th</sup> Year Thinning Year of Working</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
I	2007-08	2011-12	2016-17
II	2008-09	2012-13	2017-18
III	2009-10	2013-14	2018-19
IV	20010-11	2014-15	2019-20
V	2011-12	2015-16	2020-21
VI	2012-13	2016-17	2021-22
VII	2013-14	2017-18	2022-23
VIII	2014-15	2018-19	2023-24
IX	2015-16	2019-20	2024-25
X	2016-17	2020-21	2025-26
XI	2017-18	2021-22	2026-27
XII	2018-19	2022-23	2027-28
XIII	2019-20	2023-24	2028-29
XIV	2020-21	2024-25	2029-30
XV	2021-22	2025-26	2030-31
XVI	2022-23	2026-27	2031-32
XVII	2023-24	2027-28	2032-33
XVIII	2024-25	2028-29	2033-34
XIX	2025-26	2029-30	2034-35
XX	2026-27	2030-31	2035-36

**( b ) Statement showing the sequence of C.B.O. and Cleaning in Protection Working Circle**

<b>Coupe No.</b>	<b>C.B.O. Year of working</b>	<b>Cleaning Year of Working</b>
<b>1</b>	<b>2</b>	<b>3</b>
I	2007-08	2011-12
II	2008-09	2012-13
III	2009-10	2013-14
IV	20010-11	2014-15
V	2011-12	2015-16
VI	2012-13	2016-17
VII	2013-14	2017-18
VIII	2014-15	2018-19
IX	2015-16	2019-20
X	2016-17	2020-21



**APPENDIX NO. XXI**  
**STATEMENT SHOWING PROCEDURE TO IDENTIFY FIT AND UNFIT GRIDS IN TEAK PLANTATION WORKING CIRCLE BASED ON CRITICAL CROP GIRTH**  
**Abstract of 100% enumeration in a Grid**

Range: Jarida Compt No.: 381 Coupe No. vii sample plot Area of Section in ha: 1  
 Average Top Height in the Grid in meters: 24.5 Average Teak Site Quality in the Grid: II Date of inspection: 05/06/2013

**ABSTRACT**

Sr.No.	Species	Girth Classes in cms.												Total	Volume in Cu.mts. Per ha	
		0/15	16/30	31/45	46/60	60/75	76/90	91/105	106/120	121/135	136/150	151/165	166/180			180/195
		7.5	22.5	37.5	52.5	67.5	82.5	97.5	112.5	127.5	142.5	157.5	172.5	187.5		
1	Teak & associates	30	24	32	41	60	67	40	37	11	2	4	0	3	351	131
2	Others including coppices	10	3	8	8	8	7	5	2	2	1	3	1	0	58	21
3	Total	40	27	40	49	68	74	45	39	13	3	7	1		409	152
	Desired population per ha. for balanced uneven aged crop	178	128	72	41	27	20	16	13	11	10	9	8	0	533	103

**Note:** "Teak & associates" means seed origin trees of Teak, Bija, Kalam, Ain, and Haldu  
 "Others" mean trees of remaining species and their coppices including coppices of teak

Vol.factor for upto 20.9 m ht.	0	0.009	0.039	0.15	0.24	0.365	0.565	0.83	1.05	1.3	1.55	1.85	2.15
Vol.factor for 21-26.9 m ht.	0	0.02	0.062	0.155	0.25	0.37	0.57	0.835	1.06	1.35	1.65	2.02	2.48
Vol.factor for above 27 m ht.	0	0.03	0.085	0.155	0.26	0.38	0.58	0.84	1.1	1.41	1.77	2.15	2.65
BA factor	0.0004	0.004	0.0112	0.0219	0.0363	0.0542	0.0757	0.1008	0.1294	0.1617	0.1975	0.2369	0.2799

**A.** Total Basal Area in the Grid (sq.metes.): 19.25 **B.** Prescribed girth in cms.of advance growth for the site quality of the Grid: 45 **C.** No of trees above **B:** 299  
**D.** Basal Area of trees shown in **C**(sq.mts.): 18.7 **E. Crop Girth** of the trees shown in **C =100 X Sq. root of (D X 12.56/C) cms. = 89**  
**F. No. of trees of teak & associate having girth 45 cms. and above in the Grid:** 265  
**G. % of teak & associates in the crop having girth 45 cms. and above in the Grid:F/C=** 89  
**H.** Value of CCG in cms. for composition mentioned in **G** for the measured Top Height in the Grid: 85  
**I.** Fitness of the Grid for reproduction under Clear Cutting Silvicultural System: ..... **FIT**

Courtesy – Shri. Tasneem Ahmad, PCCF (Retd.)

**Appendix No. XXII****Statement Showing Results Of Stock Mapping**

Comptt. No.	Teak II	Teak III	Teak IVa	Teak IV b	Teak Total	Mixed	Well	Under	Blank	Water-body	Other	Total	Bamboo	Salai
1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
1	0	0	0	132.87	132.87	0	55.2514	71.7232	5.2137	-	0.5241	132.7124	-	-
2	-	-	128.25	13.5	141.75	-	57.0997	75.1419	8.9092	0.1152	0.4675	141.7335	-	-
3	-	-	0.033	151.57	151.603	-	49.748	87.9773	13.2804	0.1334	0.559	151.6981	-	-
4	-	-	12.2	86.32	98.52	23.82	61.1901	50.667	9.7718	0.4019	0.3503	122.381	-	-
5	-	-	36.71	-	36.71	-	-	20.2523	10.451	.	0.4045	31.1078	-	-
6	-	0.09	11.81	155.3	167.21	-	60.431	45.5326	50.4562	0.4852	0.2345	157.1395	-	-
7	-	-	110.68	157.79	268.47	-	75.8245	95.4865	100.4562	-	0.8563	272.6235	-	-
8	-	-	68.28	254.88	323.16	-	120.2456	100.4785	95.1245	0.4586	0.9856	317.2928	-	-
9	-	-	113.87	197.68	311.55	-	253.0547	69.6767	3.0051	-	-	325.7364	-	-
10	-	-	3.82	196.37	200.19	2.7	100.9494	88.4514	13.2262	0.2359	-	202.8629	-	-
11	-	-	64.58	171.64	236.22	3.84	93.9404	128.1893	17.7718	0.1673	-	240.0687	-	-
12	-	3.95	179.53	96.29	279.77	3.29	178.8003	96.1677	7.0121	1.0944	-	283.0745	-	-
13	-	5.08	6.51	144.5	156.1		115.452	36.9588	3.6895	-	-	156.1002	-	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
14	-	13.42	75.12	174.65	263.21	5.93	219.229	48.9441	0.971	-	-	269.1441	-	
15	-	-	58.66	128.01	186.68	7.42	138.9541	49.5953	5.3254	0.241	-	194.1158	-	-
16	-	1.33	32.09	228.62	262.05	-	193.9701	64.8921	3.1908	-	-	262.053	-	-
17	-	24.98	15.53	361.17	401.69	-	229.9734	166.8528	4.485	-	0.3795	401.6907	-	-
18	-	-	294.85	-	294.85	-	154.2456	95.1256	20.1245	-	0.155	269.6507	-	-
19	-	-	111.86	220.38	332.24	0.27	200.2356	108.5388	7.4385	0.3456	-	316.5585	-	-
20	-	-	15.43	80.37	95.8		20.4562	25.3654	45.2563	0.4121	-	91.49	-	-
21	3.76	-	43.2	129.6	176.57	0.4	45.1245	50.2653	95.2365	0.0055	0.0608	190.6926	-	-
22	-	12.31	9	119.27	140.6	5.26	50.2365	45.3256	45.2365	1.2922	-	142.0908	-	-
23	-	1.6	36.43	288.15	326.17	10.87	100.3145	156.8663	75.3652	0.0693	-	332.6153	-	-
24	-	49.37	21.54	182.72	253.65	0.17	166.3914	84.3874	3.0445	-	-	253.8232	-	-
25	-	1.22	-	161.4	162.62	9.34	100.2456	36.2456	29.3564	-	0.1587	166.0063	-	-
26	-	3.09	37.48	322.93	364.1		158.3564	115.5606	10.7164	0.2304	0.0133	284.8771	-	-
27	-	-	225.29	18.92	244.25		103.4562	95.2563	29.6472	0.9216	-	229.2813	-	-
28	-	-	48.29	360.47	408.76		271.2546	120.3562	13.3906	-	1.2186	406.22	54.14	-
29	-	0.23	220.44	57.46	278.13		200.2563	49.1639	12.8001	-	-	262.2203	-	-
30	-	65.48	217.61	57.46	340.56		200.4562	131.6923	25.4155	-	0.0134	357.5774	-	-
31	-	188.01	47.12	22.48	257.61	2.67	174.5623	48.2456	25.1141	0.0468	-	247.9688	-	-
32	-	162.88	120.83	253.63	537.34	33.35	380.1235	132.6583	18.2849	0.0576	-	531.1243	-	-
33	-	-	42.94	202.06	245.01	0.14	126.5527	68.215	50.0946	-	0.2971	245.1593	-	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
34	-	5.79	-	2.48	8.27	67.75	43.7875	28.5462	3.6883	-	-	76.022	-	-
38	-	-	-	87.16	87.16	-	76.4115	9.89	0.42	-	0.4386	87.16	-	-
39	-	-	199.97	142.12	342.1	-	310.8764	28.2817	2.8063	0.0977	0.0364	342.0984	-	-
40	-	14.23	164.24	71.64	250.12	28.75	246.1276	29.6463	2.5553	0.1375	0.4067	278.8734	28.75	-
43	-	1.31	81.79	9.63	92.74	-	76.2712	15.8279	0.3129	0.0302	0.3055	92.7476	44.67	-
44	-	46.77	10.74	176.32	233.83	6.64	198.2358	40.553	1.5993	-	0.0939	240.482	5.48	-
45	-	-	30.07	283.39	313.46	-	208.7869	101.9057	2.7769	-	-	313.4694	-	-
46	-	-	-	103.83	103.83	9.79	60.0118	48.0215	5.2456	0.3545	-	113.6333	-	-
47	-	-	93.01	134.28	227.3	0.86	184.5073	41.0773	2.5838	-	-	228.1684	-	-
48	-	-	0.64	161.57	162.21	0.42	124.2758	36.3123	2.0558	-	-	162.6439	-	-
49	-	-	63.63	248.4	312.04	24.52	237.4826	90.6923	8.4047	0.576	-	337.1557	-	-
50	-	-	21.71	199.73	221.45	53.56	223.4245	53.1372	1.0373	-	-	277.599	-	-
51	-	-	0.85	267.73	268.58	73.54	235.2954	95.4927	7.2361	3.9744	0.1151	342.1137	0.82	-
52	-	11.64	31.89	122.04	165.57	42.61	158.7532	46.8377	2.5756	-	-	208.1664	2.11	-
53	-	49.16	5.32	144.82	199.3	8.59	142.1188	57.9625	7.7991	-	-	207.8805	-	-
54	-	17.68	48.08	159.08	224.84	0.69	175.7369	44.8343	3.8335	1.1287	-	225.5333	31.88	-
55	-	10.95	44.65	156.89	212.49	23.18	192.2692	41.2654	1.5718	0.5545	-	235.6609	1.47	-
56	1.02	11.97	91.84	40.82	145.65	10.17	138.5035	16.0506	1.2281	0.0121	-	155.7944	2.56	-
57	-	-	45.18	61.52	106.7	-	89.9068	15.4065	1.3813	-	-	106.6947	-	-
58	-	1.17	44.78	81.2	127.15	50.81	146.3888	30.941	0.6252	-	-	177.955	-	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
59	-	-	72.04	36.26	108.3	-	106.2739	2.0381	-	-	-	108.312	16.83	-
60	-	1.75	75.77	90.13	167.65	-	153.6086	13.8235	0.2304	-	-	167.6625	-	-
61	-	-	105.34	2.67	108.01	13.27	96.8978	24.28	0.1152	-	-	121.293	-	-
62	-	-	131.23	21	152.23	-	141.5822	10.4892	0.1152	0.0576	-	152.2443	-	-
63	-	50.28	63.18	48.2	161.66	11.94	163.2895	10.076	0.2482	-	-	173.6137	48.21	-
64	-	-	50.91	60.73	111.64	3.28	82.5262	30.7517	1.6588	-	-	114.9367	-	-
65	-	-	134.26	61.34	195.6	-	120.5796	71.8618	3.1028	0.0576		195.6018	-	-
66	-	-	63.43	137.79	201.22	-	150.7718	46.9457	2.9478	0.1152	0.4436	201.2242	-	-
67	-	13.97	25.44	153.39	192.8	-	159.7407	32.5734	0.238	-	0.2588	192.8109	13.97	-
68	-	14.52	84.44	77.36	176.32	-	142.7556	31.4533	1.7764	-	0.3555	176.3409	14.52	-
69	-	0.67	70.26	70.87	141.8	-	117.348	23.0316	0.8051	-	0.6285	141.8131	-	-
70	-	16.22	12.38	78.05	106.65	12.57	89.5549	27.2243	1.8655	0.5812	-	119.2259	3	-
71	-	26.08	-	64.27	90.35	1.37	88.6301	2.6277		-	0.4616	91.7194	-	-
72	-	116.27	4.41	96.79	217.47	-	205.2996	11.378	0.5293	-	0.2692	217.4762	-	-
73	0.31	72.8	37.12	111.36	221.59	-	194.5662	24.3169	2.1768	0.5295	-	221.5894	-	-
74	-	36.37	44.68	67.57	148.62	47.04	193.403	2.2138	0.0576	-	0.2259	195.9003	74.24	0.23
75	-	26.44	-	15.93	42.37	210.38	253.4399	7.7335	0.6693	-	0.6873	262.53	-	9.78
76	-	148.9	7.9	0.61	157.41	66.78	211.4815	10.4709	2.0379	-	0.1832	224.1735	140.75	-
77	0.14	172.46	0.28	5.24	178.12	0.61	172.5114	6.2265	-	-	-	178.7379	140.75	-
78	4.53	0.37	51.16	111.27	167.33	37.72	199.4336	6.9009	0.1152	-	-	206.4497	-	0.88

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
79	-	93.07	-	96.69	189.76	36.88	124.45	2.1901	-	-	-	126.6401	92.12	-
80	-	64.82	28.8	54.1	147.72	70.9	208.9342	9.5124	0.1728	-	-	218.6194	65.8	-
81	-	38.62	-	164.74	203.36	-	202.5105	0.8543	-	-	-	203.3647	35.5	-
82	-	190.01	-	15.21	205.22	11.6	198.0607	18.3476	0.4168	-	-	216.825	158.61	-
83	-	70.21	0.58	47.66	118.45	53.34	154.9499	16.2799	0.5073	0.0576	-	171.7947	39.49	-
84	-	81.31	29.02	21.7	132.03	-	116.072	15.3453	0.613	-	-	132.0304	77.17	-
85	-	154.52	5.49	30.05	190.06	0.18	188.6409	1.6043		-	-	190.2453	97.94	-
86	-	141.85	0.15	19.66	161.66	24.9	178.0464	8.2155	0.2885	-	-	186.5504	140.27	-
87	-	134.51	-	49.59	184.1	-	178.0413	5.5402	0.522	-	-	184.1035	178.46	-
88	-	130.95	22.18	55.38	208.51	0.11	200.013	6.9998	1.5509	0.0576	-	208.6213	179.12	-
89	-	81.94	28.15	16.22	126.31	77.58	192.6006	9.9183	1.2634	0.1152	0.002	203.8996	180.93	-
90	-	196.37	0.39	-	196.76	-	193.0948	3.6268	-	-	0.0369	196.7585	189.07	-
91	-	218.14	3.79	50.86	272.79	9.75	269.6171	11.6415	1.1854	-	0.0675	282.5116	217.86	--
194	-	162.9	46.02	0.12	209.04	-	193.7823	14.7187	0.2672	-	0.2688	209.0369	152.58	-
195	-	140.58	-	-	140.58	-	135.0524	5.1202	0.2942	-	0.115	140.5817	178.79	-
196	-	200.85	-	-	200.85	-	188.0011	11.5766	0.3893	-	0.1185	200.0855	189.21	-
197	2.93	209.91	-	-	212.84	-	206.3467	6.2256	-	-	0.2955	212.8679	208.4	-
198	-	144.14	-	-	144.14	-	140.078	3.9762	0.0836	-		144.1378	133.71	-
199	-	424.52	4.85	38	467.37	20.17	444.5052	41.6273	0.7227	0.1152	0.5569	487.5273	379.35	-
200	-	213.19	55.45	0.33	268.97	0.96	257.1567	12.3475	0.4293			269.9335	193.17	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
201	-	229.43	-	-	229.43	44.26	264.9148	8.284	0.1152	-	0.3776	273.6917	192.78	-
202	-	188.22	-	-	188.22	23.3	191.807	18.9352	0.4531	-	0.3333	211.5285	149.83	-
203	-	178.87	-	-	178.87	32.69	173.513	36.9743	0.9216	-	0.156	211.5649	13.43	-
204	1.11	312.35	-	-	313.46		308.5562	5.4209		-	0.0803	314.0574	0.27	-
205	-	179.05	-	-	179.05	24.36	195.3137	7.4717	0.3255	-	0.3059	203.4169	-	-
207	25.94	181.48	44.75	-	252.17	0.54	244.1748	7.971	-	-	0.5834	252.7292	-	-
208	12.08	182.55	-	-	194.63	-	191.8489	1.9601	-	-	0.8262	194.6352	-	-
298	0.025	194.92	0.47	12.9	208.315	-	202.7116	4.6588	-	-	0.9389	208.3093	-	-
299	25.32	199.27	55.94	-	280.53	-	265.141	13.9564	-	-	1.4222	280.5195	-	-
337	-	69.61	-	6.94	76.55	5.56	63.4334	16.116	1.7685	-	1.2938	82.6117	51.61	-
339	-	58.35	-	57.44	115.79	10.44	84.0146	40.507	1.8704	-	0.0803	126.4723	11.31	-
340	-	28.13	6.59	82.52	117.24		32.5681	70.0913	14.6935	-	0.3186	117.6715	1.49	-
341	-	100.83	-	17.21	118.04	55.93	150.0451	21.2174	3.0516	-	0.0787	174.3928	-	-
342	-	155.68	0.4	-	156.08	11.93	133.215	34.1361	0.7139	-	-	168.0651	-	-
343	-	96.74	3.7	-	100.44	22.73	110.6231	12.4988	0.0518	-	-	123.1737	-	-
344	-	86.13	58.23	12.29	156.65	15.36	140.711	29.129	1.5831	0.0576	0.5272	172.0079	-	-
345	-	110.54	35.9	-	146.44	20.83	149.8908	17.03	0.353	-		167.2737	-	-
346	-	13.39	18.5	27.42	59.31	57.76	64.7597	50.3952	1.6084	-	0.3086	117.0718	-	-
347	-	26.01	128.94	12.86	167.81	22.59	151.2413	37.2044	1.9675	-	-	190.4131	-	-
348	-	108.33	3.15	36.93	148.41	19.32	137.9772	28.6443	1.1117	-	-	167.7332	-	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
349	-	57.63	58.21	11.25	127.09	13.87	113.9457	25.3996	1.269	--	0.3441	140.9584	21.5	-
350	-	99.5	-	35.29	134.79	7.66	122.1201	19.5555	0.6369	-	0.1409	142.4533	-	-
351	-	130.77	4.17	22.98	157.92	31.45	154.2852	35.1438	3.8869	0.0576	-	193.3735	116.29	4
352	-	118.16	0.16	1.77	120.09	48.71	131.9632	35.8349	1.0134	-	-	168.8115	107.65	-
353	-	112.58	7.95	3.01	123.54	23.11	124.4077	22.0138	0.2304	-	-	146.652	-	-
354	-	96.42	4.45	8.34	109.21	17.02	109.8965	16.2709	0.0576	-	-	126.225	80.35	-
355	-	73.35	5.11	1	79.46	13.94	73.5351	18.1932	1.5564	-	0.0052	93.2899	56.61	-
356	-	78.59	46.63	3.82	129.04	6.36	115.8495	19.5548	-	-	-	135.4043	70.13	-
357	-	133.22	0.03	6.34	139.59	3.57	109.6232	30.3932	2.7492	-	-	142.7656	103.99	-
358	-	114.77	2.48	25.61	142.86	18.61	128.9028	27.3706	4.878	0.31	-	161.4613	110.61	-
359	-	181.68	5.66	37.62	224.96	8.04	200.744	30.0171	1.8096	0.0964	0.3499	233.017	154.5	-
360	-	12.63	90.85	22.37	125.85	17.51	101.8032	39.7377	1.8694	0.0659	0.4832	143.9594	0.37	-
361	-	90.79	-	11.71	102.5	28.28	98.0913	28.8381	3.6218	0.2304	-	130.7817		-
362	-	115.73	-	10.18	125.91	46.73	138.6049	33.6505	0.3831		-	172.6385	11.03	--
363	-	61.63	0.69	24.9	87.22	10.31	78.9327	16.4872	2.1151	0.098	-	97.633	38.12	-
364	-	137.06	13.26	1.08	151.4	39.63	167.0966	23.9484	-	-	-	191.0449	119.98	-
365	-	74.01	1.72	15.5	91.23	16.15	90.7372	15.5726	-	-	1.1038	107.4136	16.8	-
366	-	48.18	0.56	66.54	115.28	5.56	90.7372	15.5726	-	-	1.1038	107.4136	44.34	0.8
367	-	115.05	-	66.96	182.01	6.04	134.3665	50.0637	3.6265	-	-	188.0568	9.46	-
368	-	120.19	-	12.39	132.58	34.7	145.0596	22.7116	0.2311	-	-	168.0023	9.2	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
369	-	124.26	4.93	-	129.19	10.33	98.2472	39.526	1.7539	-	-	139.5271		-
370	-	31.23	-	33.49	64.72	67.48	64.5419	67.22	0.4466	-	-	132.2086	18.66	-
371	-	48.28	-	35.35	83.63	36.6	74.7561	39.7665	5.717	-	-	120.2395	4.43	-
372	-	114.4	-	31.75	146.15	29.76	124.6176	48.7705	2.5419	-	-	175.93	-	-
373	-	80.39	-	7.45	87.84	20.24	75.9477	31.7821	0.3648	-	-	108.0945	-	-
374	-	110.67	2.33	31.54	144.54	17.08	125.0941	29.7634	6.7909	-	-	161.6483	-	-
375	-	102.88	32.64	0.52	136.04	20.68	94.1474	55.5866	6.8042	0.1939	-	156.7321	-	-
376	-	122.31	27.13	10.67	160.11	24.73	122.0099	59.5361	2.7794	0.0365	0.4898	184.8517	-	-
377	-	83.43	42.91	20.18	146.52	4	82.3973	60.3974	7.3041	0.288	0.1521	150.5389	21	-
378	-	110.62	-	86.29	196.91	7.84	136.7301	62.3286	5.6288	-	0.075	204.7625	72.9	-
379	-	52.25	4.67	67.96	124.88	8.09	68.5747	54.8422	9.5726	-	-	132.9896	0.21	-
380	-	95.5	14.84	99.69	210.03	0.82	71.9543	120.3562	18.5365	-	-	210.847	48.84	-
381	-	105.1	-	25.04	130.14	32.87	77.1186	82.9044	2.9986	-	-	163.0216	82.81	-
382	-	103.51	-	60.72	164.23	-	120.8112	42.0356	1.4408	-	-	164.2876	85.9	-
383	-	81.7	-	10.49	92.19	35.84	-	-	-	-	-		53.56	-
384	-	60.04	-	15.6	75.64	23.48	74.7629	32.0237	0.1211	-	-	106.9078	56.37	-
385	-	98.72	-	9.6	108.32	4.03	84.3206	26.8013	1.0712	-	0.1738	112.367	31.01	-
386	-	12.92	114.3	29.36	156.58		162.2302	118.518	3.0926	0.2246	0.5931	284.6586	-	-
387	-	82.34	18.74	11.45	112.53	33.09	105.8865	39.5101	0.1225	-	0.0514	145.5704	60.22	-
388	-	85.78		17.07	102.85	90.2	95.0569	90.9991	6.7297	0.1081	0.1643	193.0581	65.11	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
389	-	127.55	-	24.96	152.51	3.48	61.7403	76.391	17.6926	0.1267	0.0466	155.9972	106.66	-
390	-	77.46	0.52	36.8	114.78	-	50.1449	56.2761	8.2021	0.1695	-	114.7927	76.85	-
391	-	134.46	-	5.75	140.21	-	79.8362	58.0088	2.3894	-	-	140.2345	35.28	-
392	-	168.86	-	2.26	171.12	1.63	84.1124	87.8052	0.8561	-	-	172.7737	64.66	-
393	-	136.14	0.21	41.03	177.38	9.45	102.0844	80.0167	4.7453	-	-	186.8464	0.86	-
394	-	112.4	-	35.21	147.61	24.04	111.1817	56.2438	4.1744	0.0576	-	171.6575	-	-
395	-	154.99	-	14.49	169.48	15.35	170.2141	14.0791	0.5404	-	-	184.8336	-	-
396	-	162.69	-	0.37	163.06	11.62	156.837	17.372	0.0221	-	0.4595	174.6906	-	-
397	-	133.34	-	-	133.34	-	120.4884	12.0691	0.174	-	0.613	133.3445	7.3	-
401	-	136.59	-	-	136.59	5.91	126.3612	15.6828	-	-	0.4656	142.5096	23.65	-
404	-	69.82	34.12	29.15	133.09	9.86	132.0766	9.9437	-	-	0.9583	142.9786	54.1	-
405	-	121.18	19.29	-	140.47	6.15	135.0706	11.555	-	-	-	146.6256	51.73	-
406	-	156.02	-	-	156.02	8.78	159.7657	4.8883	0.0576	-	0.1072	164.8188	126.07	-
407	-	162.52	-	-	162.52	9.92	163.1418	9.3026	-	-	-	172.4443	6.69	-
408	-	180.55	-	-	180.55	0.43	177.4897	3.4406	-	-	-	180.9304	-	-
409	-	160.51	1.82	2.09	164.42	1.48	143.2138	22.6698	0.042	-	-	165.9256	14.44	-
410	-	140.28	1.13	3.41	144.82	14.06	110.256	48.6371	-	-	-	158.8931	-	-
411	-	135.37	-	-	135.37	8.08	113.5595	29.8573	0.0359	-	-	143.4527	-	-
412	-	186.44	-	-	186.44	-	160.9456	25.5011	-	-	-	186.4466	31.63	-
413	-	188.2	-	-	188.2	0.5	187.8484	0.8569	-	-	-	188.7053	91.8	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
414	0.38	151.36	4.93	-	156.67	-	153.5892	3.0992	-	-	-	156.6884	63.12	-
415	-	156.5	-	-	156.5	1.09	150.5327	7.9155	-	-	-	158.4482	83.62	-
416	-	158.08	7.87	-	165.95	13.51	171.0195	7.4624	-	-	0.9838	179.4657	22.84	-
417	-	170.53	-	-	170.53	3.5	152.3722	20.6299	0.0576	-	0.9862	174.0459	168.24	-
421	-	161.72	20.37	6.6	188.69	-	163.1842	24.9222	-	-	0.5979	188.7043	109.06	-
422	-	110	-	-	110	-	102.212	7.0122	-	-	0.7769	110.001	47.65	-
423	-	166.2	1.86	-	168.06	-	155.8348	12.175	0.0576	-	-	168.0674	1.86	-
424	0.2	196.76	0.93	-	197.89	2.87	184.5198	16.258	-	-	-	200.7778	135.89	-
425	1.87	232.77	9.57	-	244.21	3.58	229.92	17.8959	-	-	-	247.8159	0.06	-
426	-	183.71	10.62	0.24	194.57	3.07	129.83	67.8059	-	-	-	197.6359	35.25	-
427	-	182.18	-	-	182.18	-	98.3806	81.8147	1.5772	0.0313	0.3826	182.1864	-	-
428	-	191	-	0.94	191.94	-	134.8081	56.8995	0.2292	-	0.0596	191.9964	20.15	-
429	-	199.1	-	27.8	226.9	-	83.8773	137.0347	6.1221	0.5941	0.166	227.7942	80.03	-
430	-	120.64	29.54	19.7	169.88	-	68.2549	101.1024	0.5184	-	-	169.8757	29.54	-
431	-	131.06	-	61	192.06	-	103.2899	86.9672	1.8205	-	0.0144	192.0919	26.64	-
432	-	133.22	-	18.76	151.98	-	100.5522	50.0154	1.4079	0.0093	0.0031	151.9879	40.43	-
433	-	151.76	-	8.58	160.34	-	87.1205	72.5128	0.6437	-	-	160.2771	47.65	-
434	-	177.38	-	10.55	187.93	-	90.4191	96.7593	0.7574	-	-	187.9359	20.06	-
435	-	154.43	-	-	154.43	16.1	126.5763	43.9639	-	-	-	170.5402	5.92	-
436	-	170.77	-	0.47	171.24	-	97.4657	73.2606	0.5184	-	-	171.2447	121.87	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
437	-	126.72	-	-	126.72	-	91.9923	34.7315	-	-		126.7238	58.88	-
438	-	144.62	-	-	144.62	1.48	114.0104	32.0869	-	-	-	146.0973	38.07	-
439	-	177.91	6.31	21.89	206.11	-	149.6125	55.8254	0.6874	-	-	206.1253	142.86	-
440	-	109.58	11.16	30.77	151.51	-	73.9031	71.2178	6.3046		0.1082	151.5338	96.53	-
441	-	150.71	26.63	0.27	177.61	0.5	93.2424	84.5523	0.1666	-	0.1776	178.1389	67.41	-
442	-	143.31	-	--	143.31	0.32	71.1666	71.9029	0.5684	-	-	143.6379	46.4	-
443	-	138.97	-	39.48	178.45	-	68.3285	108.6843	1.4297	0.0098	0.0091	178.4614	109.73	-
444	-	83.033	-	74.41	157.443	-	69.9596	80.331	6.2966	0.2651	0.5926	157.4448	-	-
445	-	179.22	-	54.4	233.62	0.18	69.9183	54.8435	8.2624	0.0874	0.7008	133.8124	34.95	-
446	-	100.25	-	28.63	128.88	10.68	53.0037	85.7368	0.823	-	-	139.5636	-	-
447	-	121.48	6.45	45.97	173.9	-	51.8644	120.7932	1.0943	-	0.1591	173.911	-	-
448	-	76.65	-	44.72	121.37	0.05	24.6226	90.1743	6.5484	-	0.0806	121.426	27.46	-
449	-	115.41	-	50.97	166.38	-	43.7714	138.5505	3.3068	-	0.0635	185.6921	9.8	-
450	-	94.81	11.4	37.76	143.97	-	29.301	116.9743	4.7532	-	0.6595	151.6879	31.75	-
451	-	82.92	14.84	58.6	156.36	-	41.2087	113.9876	0.9126	0.0945	0.165	156.3684	-	-
452	-	86.2	-	49.71	135.91	-	26.1036	99.8705	8.8132	0.1616	0.9756	135.9245	-	-
453	-	119.17	8.79	37.58	165.54	-	79.5154	81.436	4.3612	-	0.244	165.5565	127.96	-
454	-	129.52	-	17.9	147.42	-	85.2616	60.8374	1.2533	-	0.0761	147.4284	110.81	-
455	-	86.09	-	42.71	128.8	-	64.9302	60.9329	2.6273	0.0999	0.2178	128.8081	83.41	-
456	-	131.25	-	65.02	196.27	-	52.8793	128.6414	12.1481	1.3563	1.2509	196.2761	48.33	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
790	-	249.23	-	3.74	252.97	5.03	217.0554	37.9157	2.5339	0.1728	0.332	258.0098	-	-
791	-	226.24	106.73	5.85	338.82	42.34	364.0421	17.1251	0.0028	-	-	381.1701	-	-
792	-	74.33	34.68	115.74	224.75	-	193.2528	29.7602	1.5125	-	0.2335	224.759	-	-
793	-	30.14	40.49	149.45	220.1	-	192.7789	24.1734	2.8046	0.0576	0.2932	220.1078	-	-
949	-	50.42	20.41	1.71	72.54	121.58	185.0995	8.805	-	-	0.2336	194.1382	-	-
950	-	87.57	-	8.79	96.36	47.74	118.1653	23.978	1.9724	-	-	144.1158	-	-
951	-	80.64	-	10.29	90.93	135.22	212.0245	18.5976	1.2302	-	0.022	231.8744	-	5.71
952	-	159.67	-	9.08	168.75	85.66	248.1522	5.467	0.3214	-	0.4737	254.4143	-	-
953	-	101.76	14.34	74.74	190.84	66.17	252.5492	3.7179	0.2304	-	0.5324	257.0299	-	--
954	-	48.98	60.14	7.08	116.2	61.92	170.8411	6.134	0.288	-	0.8662	178.1293	-	-
955	-	23.3	15.39	30.78	69.47	144.18	189.178	23.0888	0.5568	-	0.8521	213.6757	-	-
1033	-	-	14.62	55.16	69.78	274.46	151.2884	195.2669	6.5067	-	1.0544	354.1164	-	9.85
1034	-	-	-	26.3	26.3	184.15	124.8556	84.6815	0.8537	-	0.0718	210.4627	-	-
1035	-	-	-	80.39	80.39	120.57	119.0053	81.9627	-	-	-	200.968	-	--
1036	-	-	-	51	51	122.4	123.5721	49.2492	0.3456	-	0.286	173.4528	-	-
1037	-	-	-	79.27	79.27	83.54	107.0528	55.6003	0.1728	-	-	162.8259	-	-
1038	-	-	-	3.65	3.65	144.25	102.2024	48.8175	0.3456	-	0.1238	151.4892	-	3.58
1039	-	-	13.35	17.65	31	33.94	137.366	90.7322	0.576	-	0.0893	228.7634	-	163.81
1040	-	-	3.87	15.22	19.09	25.57	133.8889	69.8319	1.001	-	0.0481	204.7699	-	160.15
1041	-	-	7.44	119.36	126.8	5.15	226.0417	61.2056	0.3934	-	0.06	287.7007	-	155.73

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
1042	-	-		45.96	45.96	36.8	171.5508	70.615	1.0726	-		243.2383	-	160.46
1043	-	-	0.18	179.9	180.08	90.21	127.4961	131.3278	11.0669	-	0.4154	270.3062	-	
1044	-	-	0.5	32.6	33.1	166.68	94.838	100.7171	1.0863	-	0.1498	196.7912	-	30.04
1045	-	-	-	12.44	12.44	156.92	95.6523	82.1213	1.6704	-	-	179.444	-	10.07
1046	-	-	5.12	76.21	81.33	58.51	111.8988	54.5186	1.9547	-	-	168.372	-	28.51
1047	-	-	28.7	239.11	267.81	-	167.7102	99.0773	1.0292	-	-	267.8166	-	-
1048	-	-	7.72	266.33	274.05	-	217.3728	56.1712	0.5223	-	-	274.0663	-	-
1049	-	-		236.05	236.05	-	177.1829	58.8104	0.0576	-	-	236.0509	-	-
1050	-	-	45.46	223.38	268.84	12.91	268.336	14.6075		-	-	282.9436	-	1.18
1051	-	-	26.9	219.38	246.28	15.54	230.8971	30.8619	0.0576	-	-	261.8166	-	-
1052	-	-	3.63	262.89	266.52	-	162.3291	103.5645	0.6335	-	-	266.5271	-	-
1053	-	-	44.55	108.28	152.83	2.81	74.9311	80.145	0.8253	-	-	155.9014	-	-
1054	-	-	13.25	277.58	290.83	19.69	111.6282	191.4434	7.4049	0.0576	-	310.5341	-	-
1055	-	-	76.79	135.85	212.64	0.84	63.0521	133.7648	16.6852	-	-	213.502	-	-
1056	-	-	26.26	172.93	199.19	4.79	137.5445	65.7652	0.7499	-	-	204.0597	-	-
1057	-	-	88.04	233.63	321.67	-	215.7263	104.5749	1.3803	-	-	321.6814	-	-
1058	-	-	166.55	122.31	288.86	4.5	138.2207	147.3013	7.8039	-	-	293.3259	-	-
1059	-	-	115.69	85.32	201.01	0.24	72.4817	100.5331	28.2533	-	-	201.2681	-	-
1060	-	17.6	14.47	122.2	154.28	1.06	95.8978	56.9037	2.551	-	-	155.3525	-	-
1061	-		24.14	211.98	236.12	-	156.1164	78.4333	1.5765	-	-	236.1263	-	-

1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
1062	-	-	52.98	142.9	195.88	0.09	108.5971	85.5649	1.8279	-	-	195.9898	-	
1063	-	-	43.33	95.28	138.61	22.61	86.5613	75.2728	12.4987	-	-	174.3328	-	13.1
1064	-	-	-	160.97	160.97	98.91	97.6757	152.5755	14.8079	0.7827	-	265.8417	-	5.94
1065	-	90.46	0.42	67.61	158.49	11.61	36.8133	114.3137	18.9952	-	-	170.1223	-	-
1066	-	-	-	68.39	68.39	127.22	74.3367	164.039	13.8974	-	0.6851	252.9582	-	57.36
1067	-	-	-	30.75	30.75	195.81	99.1069	121.6101	5.3598	-	0.4871	226.564	-	-
1068	-	2.14	39.01	115.31	156.47	111.3	134.253	208.5247	5.3558	2.9317	0.6531	351.7183	-	83.94
1069	-	14.07	1.86	132.11	148.04		77.5665	62.6298	8.5787	-	-	148.775	-	
1070	-	-	212.49		212.49	90.28	138.0205	66.5059	14.0319	-	0.5636	219.1219	-	17.51
24L	-	-	0.67	17.02	17.69	50.92	46.653	21.9047	0.0576	--	-	68.6153	-	-
24R	-	0.31	1.24	20.29	21.85	128.38	124.1451	25.1118	0.98	-	-	150.2369	-	-
5*	-	-	-	12.23	12.23	65.97	12.2456	25.1245	25.2653	-	0.2456	62.881	-	16.13
6*	-	-	-	0.77	0.77	285.35	95.2465	100.4512	80.1236	0.1245	0.2653	276.2111	-	--
7*	-	-	15.17	111.86	127.04	144.83	45.2365	56.2365	25.3652	-	0.2365	127.0747	-	0.23
8*	-	-	1.28	167.52	168.79	161.25	55.2658	69.6547	46.3256	0.2587	0.4568	171.9616	-	-
18*	-	3.76	0.18	207.73	211.67	41.31	85.3652	79.3265	68.2354	0.2365	0.8796	234.0432	-	-
19*	-	-	-	148.25	148.25	10.44	69.3265	58.3287	49.3597	-	0.6548	177.6697	-	-
20*	-	-	-	200.97	200.97	2.13	79.3687	49.2563	60.2561	-	0.6548	189.5359	-	-
21*	-	6.09	-	6.3	12.3	176.93	66.3548	59.2568	65.3268	0.1132	0.6895	191.7411	-	-
22*	-	4.38	-	-	4.38	80.17	20.3561	35.2456	25.6897	-	0.2456	81.537	-	-

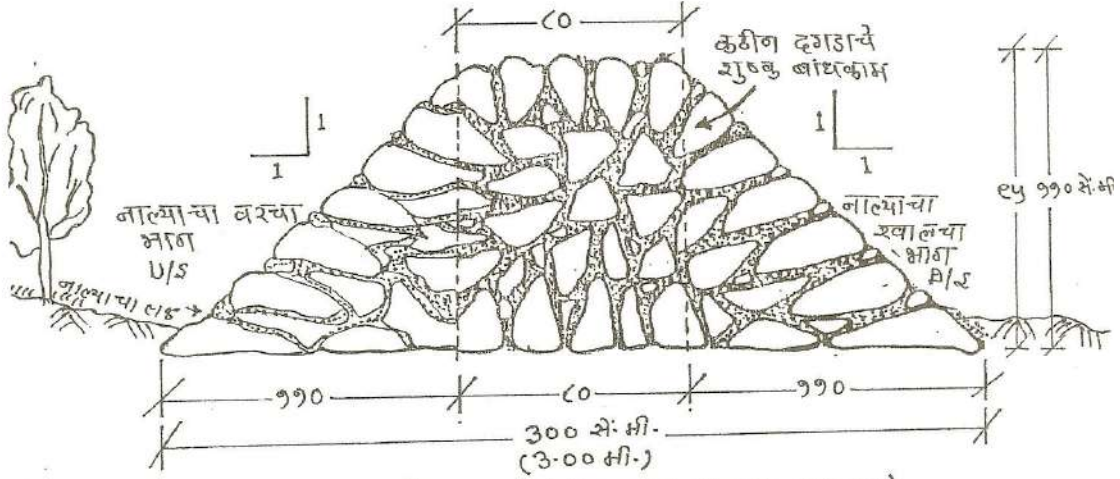
1	2	3	4	5	6	7	8	9	10	11	12	11	12	13
<b>23*</b>	-	-	3.62	69.18	72.8	0.96	35.2647	15.2365	35.1245	-	0.2145	85.8402	-	-
<b>25*</b>	-	15.14	-	41.52	56.66	224.06	85.3214	76.2563	10.356	0.3214	0.7852	173.0403	-	-
<b>26*</b>	-	-	1.34	44.21	45.56	175.75	69.3256	65.2451	45.3652	-	0.4786	180.4145	1.34	-
<b>27*</b>	-	21.83	-	3.87	25.7	159.63	55.3265	62.2165	71.3652	0.1123	0.8956	189.9161	2.71	--
<b>28*</b>	-	-	-	37.33	37.33	132.07	100.5623	50.3265	10.3247	-	0.8974	162.1109	-	-
<b>29*</b>	-	-	0.11	22.65	22.77	--	-	15.2546	12.3654	-	-	27.62	0.11	-
<b>30*</b>	-	-	12.36	65.65	78.01	79.33	85.3652	45.3256	25.0325	-	0.5689	156.2922	12.36	-
<b>31*</b>	-	11.54	10.9	3.94	26.39	56.36	25.3654	36.2145	25.3654	0.1124	0.5478	87.6055	5.46	-
<b>32*</b>	-	72.8	-	2.55	75.36		25.364	12.3654	35.3654	-	0.8956	73.9904	70.58	-
<b>Total</b>	-	-	-	-	<b>46231.1</b>	<b>7551.4</b>	<b>53782.5</b>			-	-	<b>53731.43</b>	-	-

**Note :** \* Indicate that those compartments are included Ex.-Jahahir

Bamboo Pure patches were observed in four compartments and their area are  
384 -7.70 ha., 49 - 0.58 ha.,50 -2.58 ha.and 449 - 19.30 ha.

## Appendix No. XXIII

### Soil Conservation Works: Loose Boulder Structures



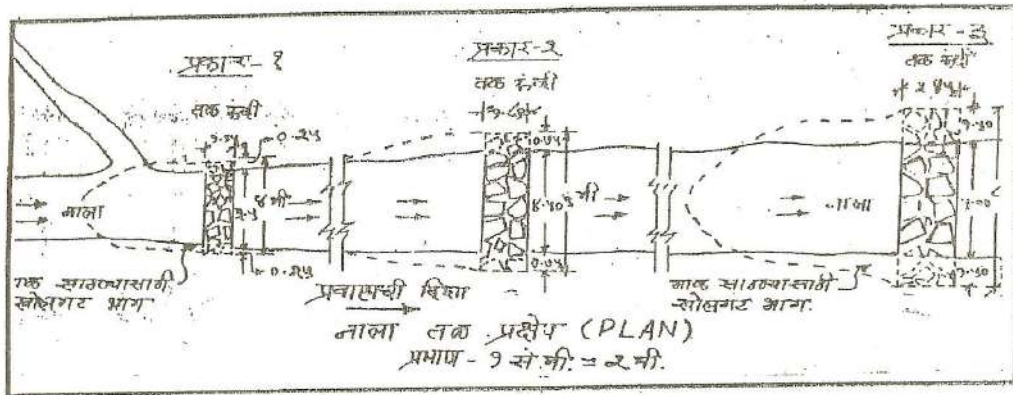
प्रवाह अवरोधक (DRY CHECK DAM)

प्रमाण = १ : २०

जास्तीत जास्त लांबी - ८.०० मीटर

माती, मऊ मुरमातील खुदाई -  $८.०० \times ३.०० \times ०.१५ = ३.६०$  ध.४

शुष्क दगडी प्रवाह अवरोधक -  $८.०० \times \frac{३.०० + ०.६०}{२} \times १.१० = १६.७२$



**टिप्पणी व विनिर्देश**  
**(SPECIFICATIONS)**

१. सध्या जमिनीची मोठ्या प्रमाणात धूप होत आहे. त्याचे कमित कमी प्रमाण १.८० घन मीटर प्रति हेक्टर प्रति वर्ष (२५.७३ घन फूट/एकर/वर्ष) इतके आहे. ही धूप थांबविण्यासाठी प्रवाह अवरोधक प्रस्तावित केलेले आहेत.
२. प्रवाह अवरोधक बांधावयाच्या नाल्यांना कमांक द्यावेत. पहिल्या कमांकाच्या नाल्यावरील अवरोधकांना १/१, १/२, १/३, ..... प्रमाणे कमांक द्यावेत. दुसऱ्या कमांकाच्या नाल्यावरील अवरोधकांना २/१, २/२, २/३ ..... प्रमाणे कमांक द्यावेत. त्याप्रमाणे मोजमाप पुस्तकात नोंद घ्यावी. तसेच ऑईल पेटने अवरोधकास जागेवर कमांक द्यावेत.
३. अवरोधकाकरीता जागा निवडण्यासाठी नाल्याच्या आरंभापासून सुरुवात करावी. गाळ साठण्यासाठी जेथे खोलगट भाग असेल ती नाल्यातील जागा जास्त योग्य, लहान , मध्यम, व मोठ्या अवरोधकासाठी ५ मी., ७.५० मी., ९ मी. पर्यंत गाळ साठू शकला पाहिजे. नाल्याची रूंदी ८ मी. पेक्षा जास्त नसावी.
४. अवरोधकाचे काम चालू करतांना नाल्याच्या काटकोनात खुदाई करावी. नाल्याच्या काठात दोन्ही टोके गेली पाहिजेत.
५. नाल्याच्या पात्रातील आजू-बाजूचे मोठे दगड (डब्लर) निवडून घ्यावेत. ओबडधोबड आकार असल्यास सुतकीने फोडून घ्यावेत. ठिसूळ किंवा गोल दगड वापरू नयेत. प्रत्येक दगड शक्यतो १५ से.मी. X १५ सें.मी. पेक्षा जास्त आकाराचा व ३० सें.मी. पेक्षा जास्त लांबीचा असावा.
६. साठविलेल्या दगडातील सर्वात मोठ्या आकारमानाचे दगड पायात घट्ट बसवावेत. त्यासाठी चिपांचा/बारीक दगडांचा वापर करावा.
७. वरील बांधकामासाठी नाल्याच्या वरील बाजूस १ भाग उंचीस १ भाग समपातळी असा उतार व नाल्याच्या खालच्या बाजूस १:१ असा उतार द्यावा. प्रत्येक दगड उताराच्या काटकोनात पक्का बसला पाहिजे.
८. अवरोधकाच्या मधील बांधकामासाठीही दगडाचा उपयोग करावा. चिपा लावून सर्व दगड बैठकीवर अडक करून बसविले पाहिजेत. सांध्याची जाडी २.५ से.मी. पेक्षा जास्त नसावी.
९. अवरोधकाच्या सर्वात वरचे बांधकाम फशी केल्याप्रमाणे उभे दगड रोऊन अर्धवर्तुळाकार करावे. पृष्ठभागाचे दगड चिपांनी घट्ट बसवावेत. यामुळे पूर आला तरी अवरोधकाचे दगड वाहून जाणार नाहीत.
१०. जास्त बांधकामाची माहिती आहे, अशा लोकांनाच प्रत्यक्ष बांधकाम करण्यास सांगावे. त्यांनी सुतकीचा वापर करावा.
११. अवरोधकाचा एक दगड जरी सैल राहिला तर अवरोधक वाहून जाण्याची शक्यता आहे. तेव्हा प्रत्यक्ष बांधकाम करतांना सर्वतोपरी काळजी घ्यावी. मजुरांना नाल्याच्या वरच्या बाजूस १ फुट उंचीस ६ इंच व खालच्या बाजूस १ फुट उंचीस १ फुट असा अवरोधकास उतार द्यावयाचा आहे हे वारंवार समजावून सांगावे म्हणजे यात चूक होणार नाही.

## Appendix No. XXIV

### Ecological Index

$$\text{Ecological Index} = (P \times D) / (Tr \times Ept)$$

Where P : Precipitation in mm = **1336** mm **Station** \_Kharya

D : Number of Rainy days = **48** days

Tr : Range of maximum temperature =**39.9°** C

Ept : potential Evapo-transpiration e = 1.6 x (10 x t/I)<sup>a</sup> is calculated as under :

#### Step 1 Calculation of Heat Index \_ I :

$$i = (t/5)^{1.514}$$

$$I = \sum (t/5)^{1.514} \quad t_1 \text{ to } t_2$$

Month	t	t/5	i = (t/5) <sup>1.514</sup>
January	26.5	5.3	12.50
February	29.7	5.9	14.87
March	32.8	6.6	17.21
April	37.0	7.4	20.73
May	39.9	8.0	23.19
June	34.8	7.0	18.84
July	30.2	6.0	15.19
August	28.7	5.7	14.07
September	30.5	6.1	15.47
October	25.9	5.2	12.06
November	25.0	5.0	11.41
December	23.0	4.6	10.06
	<b>I =</b>	<b>Total</b>	<b>185.59</b>

#### Step 2. Calculation of a :

$$E = 1.6 \times (10 \times t/I)^a$$

Where a = (I<sup>3</sup> x 675 x 10<sup>-9</sup>) - (I<sup>2</sup> x 771 x 10<sup>-7</sup>) + (I x 1792 x 10<sup>-5</sup>) + 0.49239

Ref : Equation from 'General Silviculture' by Champion and Seth page no. 73

$$= [185^3 \times 675 \times 10^{-9}] - [185^2 \times 771 \times 10^{-7}] + [185 \times 1792 \times 10^{-5}] + 0.49239$$

$$= (6392396.65 \times 10^{-9}) - (34443.65 \times 10^{-7}) + (185.59 \times 1792 \times 10^{-5}) + 0.49239$$

$$= 4.314868 - 2.655605 + 3.325773 + 0.49239$$

$$= 1.65926 + 3.81816$$

$$a = 5.4774$$

#### Step3. Calculation of potential Evapo-transpiration-Ept :

$$e = 1.6 \times (10 \times t/I)^a$$

$$= 1.6 (10 \times 39.9/185.59)^{5.4774}$$

$$1.6 (2.1499)^{5.4774}$$

$$1.6 \times 64.6880$$

$$Ept = 103.5$$

#### Step 4 Calculation of potential Ecological Index - EI :

$$\text{Ecological Index} = (P \times D) / (Tr \times Ept)$$

$$= 1336 \times 48 / 39.9 \times 103.5$$

$$= 15.53$$

**Ecological Index = 15.53 for Kharya Station**

**Appendix No. XXV**

**Allotment Of Compartments To Bamboo (Overlapping) Working Circle.  
Coupes and Year of Working**

A			B			C		
No. of Compts	Total Area (Ha)	Bamboo Area (Ha)	No. of Compts.	Total Area (Ha)	Bamboo Area (Ha)	No. of Compts.	Total Area (Ha)	Bamboo Area (Ha)
1	2	3	4	5	6	7	8	9
	2005-2006 2008-2009 2011-2012 2014-2015			2006-2007 2009-2010 2012-2013 2015-2016			2007-2008 2010-2011 2013-2014 2016-2017	
<b>Bamboo Felling Series: Taora</b>								
84	147.36	4.83	201	279.23	239.50	76	237.95	39.44
194	239.57	123.97	202	233.50	77.28	77	242.40	51.52
195	163.49	41.86	203	213.27	61.18	81	212.46	80.50
196	198.70	70.84	204	322.53	109.48	82	192.51	27.37
197	227.83	127.99	205	219.74	50.71	83	207.44	19.32
198	330.22	146.51	207	255.76	45.03	85	197.48	38.64
199	316.06	247.57	208	198.70	37.60	90	193.84	8.85
200	265.07	0.00	298	227.03	0.00	91	267.49	81.64
-	-	-	299	276.80	0.00	-	-	-
<b>TOTAL</b>	<b>1888.30</b>	<b>763.57</b>	-	<b>2226.56</b>	<b>620.78</b>	-	<b>1751.57</b>	<b>347.28</b>
<b>Bamboo Felling Series: Butida</b>								
350	126.54	115.00	337	74.72	20.00	348	174.01	120.00
358	167.16	130.00	339	107.85	20.00	349	134.35	85.00
359	214.21	160.00	340	110.75	30.00	351	209.05	120.00
360	134.30	34.00	341	180.28	55.00	352	178.06	110.00
363	116.34	55.00	342	166.60	80.00	353	156.21	120.00
364	196.67	106.00	343	132.74	95.00	356	144.07	90.00
365	130.71	90.00	344	161.40	15.00	357	136.78	96.00
366	142.29	85.00	345	171.58	85.00	-	-	-
-	-	-	346	102.50	40.00	-	-	-
-	-	-	347	192.57	120.00	-	-	-
-	-	-	354	126.26	78.00	-	-	-
-	-	-	355	108.05	45.00	-	-	-
<b>TOTAL</b>	<b>1228.22</b>	<b>755.00</b>	-	<b>1635.30</b>	<b>683.00</b>	-	<b>1132.53</b>	<b>741.00</b>
<b>Bamboo Felling Series: Khari</b>								
369	169.56	60.00	361	139.85	90.00	370	206.65	15.00
371	138.70	30.00	362	175.97	90.00	380	220.54	25.00
372	152.20	90.00	367	183.65	85.00	381	157.95	50.00
373	103.21	60.00	368	187.37	120.00	382	186.80	80.00
377	161.87	60.00	374	158.42	75.00	383	131.58	40.00
378	218.07	80.00	375	160.25	60.00	384	123.08	45.00
379	101.84	35.00	376	173.20	35.00	385	138.63	30.00

1	2	3	4	5	6	7	8	9
-	-	-	-	-	-	386	154.79	35.00
-	-	-	-	-	-	387	147.51	40.00
-	-	-	-	-	-	388	186.20	33.00
<b>TOTAL</b>	<b>1045.45</b>	<b>415.00</b>	-	<b>1178.71</b>	<b>555.00</b>	-	<b>1653.73</b>	<b>393.00</b>
A			B			C		
No. of Compts.	Total Area (Ha)	Bamboo Area (Ha)	No. of Compts.	Total Area (Ha)	Bamboo Area (Ha)	No. of Compts	Total Area (Ha)	Bamboo Area (Ha)
2005-2006 2008-2009 2011-2012 2014-2015			2006-2007 2009-2010 2012-2013 2015-2016			2007-2008 2010-2011 2013-2014 2016-2017		
<b>Bamboo Felling Series: Sumita</b>								
447	179.68	60.00	389	155.89	55.00	432	159.34	60.00
448	114.02	20.00	390	112.33	35.00	437	124.24	50.00
449	188.27	40.00	391	131.70	35.00	438	163.49	50.00
450	167.58	45.00	392	177.65	15.00	439	192.44	75.00
451	146.83	25.00	393	180.11	20.00	441	194.65	70.00
452	149.14	15.00	394	198.45	40.00	442	137.59	80.00
453	172.29	80.00	433	160.08	30.00	443	180.88	20.00
454	160.03	80.00	435	166.32	50.00	444	173.61	25.00
455	103.60	70.00	436	169.15	55.00	445	247.53	50.00
456	213.67	55.00	440	154.87	80.00	446	138.09	30.00
<b>TOTAL</b>	<b>1595.11</b>	<b>490.00</b>	-	<b>1606.55</b>	<b>415.00</b>	-	<b>1711.86</b>	<b>510.00</b>
<b>Bamboo Felling Series: Rahu</b>								
410	154.99	40.00	404	161.05	110.00	395	193.70	85.00
411	152.97	70.00	405	149.32	80.00	396	171.17	130.00
412	183.32	35.00	414	152.96	100.00	397	147.30	65.00
421	205.97	70.00	415	151.34	65.00	401	156.81	95.00
422	123.01	40.00	416	182.90	100.00	406	162.27	135.00
423	168.34	45.00	417	176.44	155.00	407	176.03	115.00
425	256.96	20.00	424	207.19	120.00	408	186.55	90.00
426	204.76	50.00	-	-	-	409	163.49	35.00
427	187.36	15.00	-	-	-	413	190.20	85.00
428	193.03	30.00						
429	226.21	85.00						
430	173.20	55.00						
431	195.54	30.00						
434	186.13	40.00						
<b>TOTAL</b>	<b>2611.79</b>	<b>625.00</b>	-	<b>1181.20</b>	<b>730.00</b>	-	<b>1547.52</b>	<b>835.00</b>

A			B			C		
No. of Compts.	Total Area (Ha)	Bamboo Area (Ha)	No. of Compts.	Total Area (Ha)	Bamboo Area (Ha)	No. of Compts.	Total Area (Ha)	Bamboo Area (Ha)
1	2	3	4	5	6	7	8	9
	2005-2006 2008-2009 2011-2012 2014-2015			2006-2007 2009-2010 2012-2013 2015-2016			2007-2008 2010-2011 2013-2014 2016-2017	
<b>Bamboo Felling Series: Ghatang</b>								
52	161.65	0.00	2	159.99	0.00	55	288.54	0.00
53	192.63	0.00	3	172.08	0.00	56	164.04	0.00
87	188.99	6.44	9	321.22	20.00	80	228.64	82.11
88	212.87	15.29	10	142.99	0.00	86	186.15	69.23
89	210.43	45.08	57	111.20	0.00			
-	-	-	58	170.30	27.00			
-	-	-	59	108.05	10.00			
-	-	-	60	156.21	0.00			
-	-	-	61	121.40	5.00			
-	-	-	62	114.52	16.50			
			63	184.53	42.00			
-	-	-	64	129.71	16.00			
-	-	-	65	197.05	25.00			
-	-	-	66	192.64	45.00			
-	-	-	67	200.32	31.00			
-	-	-	68	147.63	8.00			
-	-	-	69	174.99	5.50			
-	-	-	70	92.99	8.50			
-	-	-	71	130.36	12.07			
-	-	-	72	226.86	0.00			
-	-	-	73	228.84	0.00			
-	-	-	74	206.79	30.59			
-	-	-	75	282.06	26.56			
-	-	-	78	210.84	62.79			
-	-	-	79	218.93	70.84			
<b>TOTAL</b>	<b>966.57</b>	<b>66.81</b>	-	<b>4402.50</b>	<b>462.35</b>	-	<b>867.37</b>	<b>151.34</b>
<b>G. TOTAL</b>	<b>9335.44</b>	<b>3135.38</b>	-	<b>12230.82</b>	<b>3466.13</b>	-	<b>8664.58</b>	<b>2977.62</b>



**Appendix No. XXVI**

**List of Tendu Units in (reorganised)  
East Melghat Division**

<b>Name of Division</b>	<b>Range</b>	<b>Unit No.</b>	<b>Name of Unit</b>	<b>Group of Unit No.</b>	<b>Notified Yield</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
East Melghat	Jarida	1	Jarida	-	1800
	Ghatang	2	Ghatang	I	400
	Chikhaldara	3	Chikhaldara		

**List of MFP Units in (reorganised)  
East Melghat Division (Gum and Hirda)**

<b>M.F.P.</b>	<b>Name of Unit</b>
Gum	1) Jarida
Hirda	1) Jarida
	2) Ghatang



**Appendix No. XXVII**

**JFM DATABASE  
East Melghat Forest Division.**

Sr. no.	Range	Name of village	Forest Area assigned in Ha.	Date of registration with department	Date of registration As per Society Act 1860	Whether MOU is duly signed Yes/No	If signed, Date of Sanction	Whether Micro Plan is duly sanctioned Yes/No	If sanctioned, Date of Sanction
1	Ghatang	Ghatang	228.84	18/2/1999		YES	18/11/2006	YES	31/03/2012
2	Ghatang	Salona	852	18/2/1999	29.8.2011	YES	07/09/2007	YES	31/1/2013
3	Ghatang	Masondi	600	18/2/1999	29.8.2011	YES	06/03/2000	YES	31/1/2013
4	Ghatang	Bihali	197.03	11/06/2004		YES	09/08/2005	No	-
5	Ghatang	Kohana	160.17	11/06/2004		YES	09/08/2005	Progress	-
6	Ghatang	Dhominphata	172.13	11/06/2004		YES		Progress	-
7	Ghatang	Bhulori	174.96	11/06/2004		YES	09/08/2005	YES	31/1/2013
8	Ghatang	Lawada	147.59	11/06/2004	29.8.2011	YES	09/08/2005	YES	31/03/2012
9	Ghatang	Bela	156.13	11/06/2004	29.8.2011	YES	09/08/2005	No	-
10	Ghatang	Bhawai	700	18/2/1999	21.01.2001	YES	06/03/2000	YES	31/1/2013
11	Chikhaldara	Mozari	324.05	18/2/1999		YES	06/03/2000	Progress	-
12	Chikhaldara	Baglinga	686.67	11/06/2004	21.10.2011	YES	09/08/2005	YES	31/03/2012
13	Chikhaldara	Wastapur	366.78	2003-2004	21.10.2011	YES	23/11/2007	YES	31/1/2013
14	Chikhaldara	Kulangana	104	2003-2004		YES	23/11/2007	No	-
15	Chikhaldara	Malkapur	379.89	2003-2004		YES	23/11/2007	No	-
16	Chikhaldara	Manbhang	197.38	11/06/2004		YES	09/08/2005	No	-
17	Chikhaldara	Adnadi	321.7	11/06/2004		YES	30/11/2005	YES	31/1/2013

Sr. no.	Range	Name of village	Forest Area assigned in Ha.	Date of registration with department	Date of registration As per Society Act 1860	Whether MOU is duly signed Yes/No	If signed, Date of Sanction	Whether Micro Plan is duly sanctioned Yes/No	If sanctioned, Date of Sanction
18	Chikhaldara	Hirdamal	291.4	11/06/2004		YES	09/08/2005	No	-
19	Chikhaldara	Chichati	259.06	2003-2004		YES	23/11/2007	No	-
20	Chikhaldara	Madaki	314	2003-2004		YES	23/11/2007	No	-
21	Chikhaldara	Somwarkheda	188	2004-2005		YES	07/12/2007	No	-
22	Chikhaldara	Amzari	220.57	2004-2005	18.9.2010	YES	23/11/2007	YES	31/1/2013
23	Chikhaldara	Khatkali	343.23	18-2-1999	18.9.2010	YES	18/11/2000	YES	31/03/2012
24	Chikhaldara	Tetu	244.9	2003-2004		YES	23/11/2007	YES	31.1.2013
25	Chikhaldara	Aladoh	131.38	2003-2004		YES	23/11/2007	No	-
26	Chikhaldara	Lawada	162.16	11/06/2004		YES	09/08/2005	No	-
27	Chikhaldara	Shahapur	164.02	2003-2004		YES	23/11/2007	No	-
28	Chikhaldara	Mariyampur	304.3	11/06/2008	18.9.2010	YES	11/06/2008	No	-
29	Chikhaldara	Jamli	243.89	2003-2004		YES	23/11/2007	No	-
30	Chikhaldara	Bori	354.45	11/06/2004		YES	09/08/2005	No	-
31	Chikhaldara	Jamunnana	142.16	18/2/1999		YES	18/11/2006	Progress	-
32	Chikhaldara	Bhandri	400.6	2003-2004		YES	23/11/2007	No	-
33	Chikhaldara	Kamapur	420	18/2/1999		YES	06/03/2000	No	-
34	Chikhaldara	Motha	149.1	2003-2004		YES	23/11/2007	No	-
35	Chikhaldara	Badnapur	229.44	2003/2004		YES	23/11/2007	No	-
36	Chikhaldara	Ramtek	262.29	2002-2003		YES	23/11/2007	No	-
37	Chikhaldara	Kalapani	313.99	2006-2007		YES		No	-
38	Chikhaldara	Bhilkhed	519.08	18/2/1999		YES	06/03/2000	No	-
39	Anjangaon	Pandharakhadak	625.23	11/06/2005	18.9.2010	YES	09/08/2005	YES	31.1.2013
40	Anjangaon	Khongada	871	18/2/1999	24.05.2010	YES	06/03/2000	YES	31.12.2012
41	Anjangaon	Tembrusonda	405	18/2/1999		YES	06/03/2000	YES	31.1.2013
42	Anjangaon	Pipadari	270.38	11/06/2005	7.8.2010	YES	09/08/2005	YES	31/03/2012
43	Anjangaon	Girguti	230.16	11/06/2004		YES	09/05/2005	Progress	-

Sr. no.	Range	Name of village	Forest Area assigned in Ha.	Date of registration with department	Date of registration As per Society Act 1860	Whether MOU is duly signed Yes/No	If signed, Date of Sanction	Whether Micro Plan is duly sanctioned Yes/No	If sanctioned, Date of Sanction
44	Anjangaon	Dharamdoh	185	2004-2005		YES	07/12/2007	No	-
45	Anjangaon	Aki	250	2004-2005		YES	07/12/2007	No	-
46	Anjangaon	Bahaddarpur	185	2004-2005		YES	07/12/2007	No	-
47	Anjangaon	Chouryamal	282.63	2004-2005		YES	07/12/2007	Progress	-
48	Anjangaon	Morgad	296.98	2004-2005		YES	07/12/2007	No	-
49	Anjangaon	Ambapati	271.5	2004-2005		YES	07/12/2007	No	-
50	Anjangaon	Jamli	157	2004-2005		YES	07/12/2007	No	-
51	Anjangaon	Chandpur	201.9	2012-13		YES		No	5.2.2012
52	Anjangaon	Chichkhed	205.38	18/2/1999		YES	18/11/2006	No	-
53	Anjangaon	Sawrapani	250.34	2004-2005		YES	30/11/2007	YES	31.1.2013
54	Anjangaon	Garajdari	455.04	11/06/2005		YES	09/08/2005	No	-
55	Anjangaon	Satti	296.98	18/2/1999		YES	06/03/2000	No	-
56	Anjangaon	Khirpani	516.01	11/06/2005	19.10.2010	YES	09/08/2005	YES	31/03/2012
57	Anjangaon	Kakadari	161.95	11/06/2005		YES	09/08/2005	No	-
58	Jarida	Karanj	124.24	11/06/2004		YES	30/11/2005		-
59	Jarida	Bordha	112.33	2004-2005		YES	07/09/2007	YES	31.1.2013
60	Jarida	Rahu	180.11	2004-2005		YES	07/09/2007	Progress	-
61	Jarida	Bodu	102.5	2003-2004		YES	07/09/2007	YES	31/03/2012
62	Jarida	Palsya	132.74	18/2/1999		YES	07/09/2007	NO	-
63	Jarida	Chobita	250.64	11/06/2004		YES	30/11/2004	NO	-
64	Jarida	Butida	166.6	18/2/1999		YES	18/11/2006	NO	-
65	Jarida	Lakhewada	340.75	11/06/2004		YES	30/11/2004	NO	-
66	Jarida	Dahendri	161.4	18/2/1999		YES	07/09/2007	NO	-
67	Jarida	Ektai	138.11	2004/2005		YES	07/09/2007	NO	-
68	Jarida	Salita	172.29	2004-2005		YES	07/09/2007	YES	31.1.2013
69	Jarida	Bhandum	160.02	2004-2005		YES	07/09/2007	YES	31/03/2012

Sr. no.	Range	Name of village	Forest Area assigned in Ha.	Date of registration with department	Date of registration As per Society Act 1860	Whether MOU is duly signed Yes/No	If signed, Date of Sanction	Whether Micro Plan is duly sanctioned Yes/No	If sanctioned, Date of Sanction
70	Jarida	Khari	101.84	11/06/2004		YES	07/09/2007	NO	-
71	Jarida	Hilda	157.94	2004-2005		YES	07/09/2007	YES	31.1.2013
72	Jarida	Tembhru	186.2	11/06/2004		YES	30/11/2005	NO	-
73	Jarida	Piplya	154.79	11/06/2004		YES	30/11/2005	YES	31.1.2013
74	Jarida	Biba	142.29	2004-2005		YES	07/09/2007	NO	-
<b>Total</b>			<b>20329.61</b>						



## Appendix No. XXVIII

### Government Resolution On Work Norms For Forest Staff

#### वनसंरक्षणाचे मापदंड

महाराष्ट्र शासन

महसूल व वन विभाग

शासन निर्णय क्रमांक : टिआरएस-०४/२०१४/प्र.क्र.७२/फ-६

मंत्रालय, मुंबई ४०० ०३२

दिनांक:- १३ ऑगस्ट, २०१४

वाचा :-

- १) शासन निर्णय क्र. टिआरएस-०६/२००१/प्र.क्र.२०९/फ-६, दिनांक ०८.०५.२००३
- २) शासन अधिसूचना क्र.एस-३०/०२/२०१३/प्र.क्र.२१/फ-६, दिनांक २१.०५.२०१३
- ३) शासन अधिसूचना क्र. टिआरएस-०६/२००१/प्र.क्र.२०९/फ-६, दिनांक २०.०७.२०१३
- ४) शासन अधिसूचना क्र.डब्ल्युएलपी-०६१३/प्र.क्र.१९९/फ-१, दिनांक २१.०७.२०१३
- ५) मुख्य वन्यजीव रक्षक, महाराष्ट्र राज्य यांचेकडील आदेश क्र. कक्ष २३(४)/सी-४९४/ १६०३ दिनांक २६.०७.२०१३
- ६) शासन अधिसूचना क्र. टिआरएस-०९/२०१३/प्र.क्र.१९३/फ-६, दिनांक २५.०२.२०१४
- ७) शासन अधिसूचना क्र. डब्ल्युएलपी-२०१२/प्र.क्र.३१७/फ-१, दिनांक ०१.०३.२०१४

प्रस्तावना :-

संदर्भ क्र. १ येथील शासन निर्णयानुसार वनसंरक्षणाच्या दृष्टीने मापदंड ठरवून विस्तृत दिशानिर्देश जारी करण्यात आले होते. तेव्हापासून १० वर्षांपेक्षा जास्त कालावधी निघून गेला असून या दरम्यान अनुसूचित जमाती तथा इतर पारंपारिक वननिवासी (वन हक्कांची मान्यता) अधिनियम, २००६ हा कायदा अंमलात आला. त्याबरोबरच संदर्भ क्र. ३, ४, व ५ अनुसार भारतीय वन अधिनियम १९२७ व वन्यजीव (संरक्षण) अधिनियम १९७२ अंतर्गत अधिकार प्रदान करण्यात आले आहेत. याबरोबरच संदर्भ क्र. ६ व ७ अनुसार अनुक्रमे भारतीय वन अधिनियम १९२७ आणि वन्यजीव (संरक्षण) अधिनियम १९७२ अंतर्गत सुधारित नियमावली अधिसूचित करण्यात आल्या आहेत. या पार्श्वभूमीवर वनसंरक्षणाचे मापदंडांमध्ये व्यापक सुधारणा होऊन सर्वकष दिशानिर्देश जारी करण्याची वाव शासनाच्या विचाराधीन होती. यादृष्टीने संदर्भ क्र. १ येथील शासन निर्णय अधिक्रमित करून पुढील प्रमाणे शासन निर्णय निर्गमित करण्यात येत आहे.

## शासन निर्णय :-

**१ नियतक्षेत्रांची वर्गवारी :-** वनजमिनीवर समाजविरोधी तत्वांकडून अतिक्रमण करण्याच्या वाढत्या प्रवृत्ती, शासकीय कर्तव्य बजावित असताना शासकीय अधिकाऱ्यांवर गुन्हेगारांकडून सशस्त्र हल्ला झाल्याची प्रकरणे, वन्यप्राण्यांच्या शिकारी, वनोपज आणि वन्यप्राण्यांच्या अवयवांचा अवैध व्यापार होण्याबाबत निदर्शनास येत असलेली प्रकरणे विचारात घेऊन आजच्या घटकेस सर्वच नियतक्षेत्रे अतिसंवेदनशील ठरतात. सबब, संदर्भ क्र. १ येथील शासन निर्णयानुसार नियतक्षेत्रांची 'सर्वसाधारण', 'संवेदनशील' आणि 'अतिसंवेदनशील' अशा प्रकारे करण्यात आलेली वर्गवारी सध्या प्रासंगिक ठरत नाही. सबब यापुढे सर्वच नियतक्षेत्रे 'अतिसंवेदनशील' म्हणून समजली जातील.

**२ नियतक्षेत्रे तपासणी :-** उपवनसंरक्षक, विभागीय वन अधिकारी आणि उपविभागीय वन अधिकारी हे त्यांचे अधिनस्त क्षेत्रासाठी नियतक्षेत्रे तपासणीचा वार्षिक कार्यक्रम निर्धारित करतील. सदर कार्यक्रम निर्धारित करताना प्रत्येक ६ महिन्यात विभागातील / उपविभागातील सर्व नियतक्षेत्रांची तपासणी पूर्ण होईल, याबाबतची दक्षता उक्त अधिकाऱ्यांनी घ्यावी. वनपरीक्षेत्र अधिकारी हे संपूर्ण वर्षात त्यांचे अधिनस्त शक्यतो सर्व नियतक्षेत्रांची तपासणी करतील. तथापि, त्यांनी १ महिन्यात कमीत कमी १ नियत क्षेत्राची तपासणी न चुकता करावी. नियतक्षेत्रांची संख्या जास्त असल्यामुळे वनपरिक्षेत्र अधिकारी यांना संपूर्ण वर्षात त्यांचे अधिनस्त नियतक्षेत्र तपासणी करणे शक्य होत नसेल तर त्याची भरपाई वनक्षेत्रपाल / सहायक वनसंरक्षक - फिरते पथक यांचे मार्फत करण्यात येईल.

सहायक वनसंरक्षक प्रत्येक महिन्यात वनपाल किंवा वनपरिक्षेत्र अधिकाऱ्यांनी तपासलेल्या नियतक्षेत्रातील गंभीर बाबी आढळून आलेल्या क्षेत्रांची पुनः तपासणी करतील. याव्यतिरीक्त विभागीय वन अधिकारी (दक्षता) हे त्यांचे पथकामार्फत Random पध्दतीने नियतक्षेत्र तपासणी करतील. नियतक्षेत्र तपासणी करताना भारतीय वन अधिनियम १९२७, वन्यजीव (संरक्षण) अधिनियम १९७२, वन (संवर्धन) अधिनियम १९८० व अनुषंगिक नियमांखाली घडलेल्या गुन्ह्यांची नोंद / दखल घेतील. अनुसूचित जमाती तथा इतर पारंपारिक वननिवासी (वन हक्कांची मान्यता) अधिनियम, २००६ या अधिनियमाखाली मान्य व अमान्य तसेच अपील दाव्यासंदर्भातसुध्दा आढावा घेतील. वनाच्या हद्दी, खुणा, बुरुज, इत्यादी बरोबर आहेत का, याची पाहणी करतील. वनरक्षकाचा अभिलेख बरोबर आहे का हे पाहतील. त्यांचेकडील जप्त मुद्येमाल- पुस्तिका, आदेश पुस्तिका, वीट नकाशा, टोपोशीट, दैनंदिनी, गणवेश साहित्य, जीपीएस, मोबाईल फोन, PDA व इतर शासकीय साहित्य सुस्थितीत असल्याबाबत नोंद घेतील, वनरक्षक व वनपाल हे G.P.S. व P.D.A. या यंत्रांचा योग्य प्रकारे वापर करतात का याची शहानिशा करावी तसेच वनरक्षक

मुख्यालयात राहतो का याची माहिती घेतील. (वनरक्षकाचे अभिलेखाची एक चेक लिस्ट तयार करण्यात यावी म्हणजे तपासणी काम सुकर होईल) वनरक्षकाचे वार्षिक गोपनीय अहवाल लिहिताना तपासणी अहवालाची मदत घेतली जाईल. ताब्यातील जप्त मुद्देमाल व त्याची नोंदवही यांचा ताळमेळ तपासतील.

**३ नियतक्षेत्र तपासणी अहवालाचे विश्लेषण व आनुषंगिक कार्यवाही :-** प्रत्येक तिमाहीनंतर उपवनसंरक्षक / विभागीय वन अधिकारी / उप विभागीय वन अधिकारी यांनी विशेष सत्र आयोजित करून मागील ३ महिन्यात करण्यात आलेल्या नियतक्षेत्र तपासणी अहवालाचे विश्लेषण करावे. या सत्रात विभागातील सर्व सहायक वनसंरक्षक, वन परिक्षेत्र अधिकारी, फिरते पथकाचे अधिकारी, संबंधित वनपाल व वनरक्षक उपस्थित राहतील. नियतक्षेत्र तपासणीत आढळून आलेल्या बाबींचा विचार करून पुढे घ्यावयाची दक्षता व आनुषंगिक कार्यवाही बाबत अंमल कसा करता येईल या बाबत उपवनसंरक्षक / विभागीय वनअधिकारी / उप विभागीय वन अधिकारी यांनी विशिष्ट सूचना द्याव्यात.

**४ कार्यालयाची तपासणी :-** शासकीय कामांची सर्वांगीण प्रगती कशाप्रकारे होत आहे याचा आढावा घेण्यासाठी प्रत्येक घटक कार्यालयाची नियमित तपासणी करणे आवश्यक आहे. त्याबाबतचे मापदंड खालीप्रमाणे करण्यात आले आहे:-

अ.क्र.	कार्यालयाचे नाव	तपासणी अधिकारी व मापदंड
१	परिमंडल कार्यालय	वनपरिक्षेत्र अधिकारी ३ महिन्यातून एक वेळ
२	परिमंडल कार्यालय	सहाय्यक वन संरक्षक ६ महिन्यातून एक वेळ
३	परिक्षेत्र कार्यालय	सहाय्यक वनसंरक्षक वर्षातून एक वेळ
४	परिक्षेत्र कार्यालय	उपविभागीय वन अधिकारी / विभागीय वन अधिकारी / उपवनसंरक्षक वर्षातून एक वेळ
५	सहाय्यक वनसंरक्षक कार्यालय	विभागीय वन अधिकारी व उपवनसंरक्षक वर्षातून एक वेळ
६	विभागीय कार्यालय	मुख्य वनसंरक्षक प्रती वर्षी त्यांचे कार्यक्षेत्रातील सर्व विभागीय कार्यालयांची व प्रत्येक विभागातील कमीत कमी एक परिक्षेत्राची तपासणी करतील.

**५ आरागिरणी तपासणी :-** वन अधिकारी त्यांच्या नियमित जंगल गस्तीच्या वेळी आरा गिरण्याची तपासणी करून सदर आरागिरण्या परवान्यातील अटी व शर्तीनुसार चालतात किंवा कसे याची खात्री

करतील व त्याठिकाणी अवैध तोडीतील माल आढळल्यास नियमानुसार कार्यवाही करतील. आरा गिरणी तपासणीचे मापदंड खालीलप्रमाणे निश्चित करण्यात आले आहे.

अ.क्र.	पद	आरा गिरणी तपासणीचे मापदंड
१	वनपरिक्षेत्र अधिकारी	दरमहा कमीत कमी ८ आरा गिरण्यांची तपासणी, ज्यांच्या कार्यक्षेत्रात ८ पेक्षा कमी आरा गिरण्या आहेत अशा ठिकाणी सर्व आरा गिरण्यांची दरमहा तपासणी करावी.
२	सहायक वनसंरक्षक	दरमहा कमीत कमी ४ आरा गिरण्यांची तपासणी
३	उप वनसंरक्षक / विभागीय वन अधिकारी / उपविभागीय वन अधिकारी	दरमहा कमीत कमी २ आरा गिरण्यांची तपासणी
४	मुख्य वनसंरक्षक	आवश्यकतेनुसार व परिस्थितीनुसार

राज्यातील जिल्हा मुख्यालयी असलेल्या बऱ्याच वनपरिक्षेत्रात आरा गिरण्यांची संख्या जास्त आहे. अशा आरा गिरण्यांची तपासणी एक वनपरिक्षेत्र अधिकारी उपरोक्त मापदंडानुसार करू शकणार नाही. याकरीता मुख्य वनसंरक्षकांनी विशेष कार्य वनपरिक्षेत्र अधिकाऱ्याची नियुक्ती करून अशा ठिकाणाच्या सर्व आरा गिरण्या कमीत कमी वर्षातून एकदा तपासल्या जातील याचे नियोजन करावे.

उपरोक्त मापदंडानुसार कनिष्ठ वन अधिकाऱ्यांद्वारे आरा गिरण्याची दरमहा तपासणी होत आहे याची खात्री वनसंरक्षक / मुख्य वनसंरक्षक (प्रा) करतील. आरा गिरणी तपासणीचा त्रैमासिक अहवाल मुख्य वनसंरक्षकाद्वारे अपर प्रधान मुख्य वनसंरक्षक (संरक्षण) आणि वृत्ताच्या संबंधित नियंत्रक अपर प्रधान मुख्य वनसंरक्षकांना सादर करण्यात येईल.

**६ वनगुन्ह्याची तत्परतेने नोंद, चौकशी व तपास :-** वन गुन्ह्याची नोंद सध्या प्रचलित असलेल्या प्रपत्रात ४ प्रतीत करण्यात येईल. वनरक्षक स्तरावर नोंदवण्यात आलेल्या वनगुन्ह्यासंदर्भात १ ली प्रत वनरक्षकाने स्वतःकडे ठेवावी, दुसरी प्रत वनपालाकडे, ३ री प्रत विभागीय कार्यालयाकडे आणि ४ थी प्रत वनपरिक्षेत्र कार्यालयाकडे सरळ पाठवावी. काही गुन्हा प्रकरणे वन हद्दी बाहेर घडतात व ती इतर वन अधिकाऱ्यांच्या निदर्शनास येऊ शकतात. अशा वेळी ज्या वन अधिकाऱ्याच्या निदर्शनास सर्व प्रथम सादर गुन्हा येईल त्या वन अधिकाऱ्याने गुन्ह्याची नोंद करून गुन्हा घडलेल्या कार्यक्षेत्रातील वनपाल,

वनक्षेत्रपाल व उपवनसंरक्षक / विभागीय वन अधिकारी / उपविभागीय वन अधिकारी यांचेकडे पाठवाव्यात.

शासनाच्या असे निदर्शनास आले आहे की, जुने अतिक्रमणासंदर्भात तत्परतेने गुन्हे नोंदविण्याऐवजी सदरची प्रकरणे मागील कालावधीची आहे अशी भूमिका घेऊन गुन्ह्याची नोंद केली जात नाही, ही बाब गंभीर असून अतिक्रमणासंदर्भात गुन्हे नोंदविण्याबाबत दिरंगाई निदर्शनास आल्यावर संबंधित वनरक्षक, वनपाल, प्रादेशिक वनक्षेत्रपाल कडक कारवाईस पात्र राहतील.

वन गुन्हे निदर्शनास आल्यानंतर किंवा यथास्थितीत वरीलप्रमाणे वन गुन्ह्याबाबत प्रथम प्रतिवृत्त प्राप्त झाल्यानंतर संबंधित प्राधिकाऱ्यांनी संदर्भ क्र. २ ते ५नुसार त्यांना सोपविण्यात आलेल्या अधिकारांच्या अधीन राहून विनाविलंब कायदेशीर कार्यवाही सुरु करावी. गुन्ह्याबाबत तपास व चौकशी करण्यासाठी उक्त संदर्भाद्वारे विविध पातळीवर अधिकाऱ्यांना प्राधिकृत करण्यात आले आहे. नोंद झालेल्या प्रत्येक वनगुन्हा संबंधित अधिनियमानुसार तर्कसुसंगत निष्कर्षा (Logical Conclusion) पर्यंत आणला जाईल, याची वैयक्तिक आणि संयुक्तपणे जबाबदारी वनपरिक्षेत्र अधिकारी, सहायक वनसंरक्षक आणि उपवनसंरक्षक / विभागीय वन अधिकारी / उपविभागीय वन अधिकारी यांची राहिल.

वन्यजीव (संरक्षण) अधिनियम, १९७२ अंतर्गत तडजोडीस पात्र नसलेले गुन्हे व ज्या गुन्ह्यासाठी किमान कारावासाची तरतूद आहे, अशा गुन्ह्यासंदर्भात उपवनसंरक्षक / विभागीय वन अधिकारी / उपविभागीय वन अधिकारी यांनी वैयक्तिक पातळीवर सनियंत्रण ठेवावे. गुन्ह्याबाबत तपास पूर्ण होऊन विहित कालावधीत न्यायालयात खटला दाखल होईल आणि खटला दाखल झाल्यानंतर प्रकरणाचा पाठपुरावा केला जाईल, याची सर्वस्वी जबाबदारी उक्त अधिकाऱ्यांची राहिल.

उपवनसंरक्षक, विभागीय वन अधिकारी / उपविभागीय वन अधिकारी तसेच सहायक वनसंरक्षक आणि वनपरिक्षेत्र अधिकारी हे त्यांचे कार्यालयात वनगुन्हे नोंदवहीची तपासणी नियमितपणे करतील व प्रत्येक महिन्याअखेर वरीलप्रमाणे तपासल्याबद्दल गुन्हे नोंदवहीत संदर्भांकित करतील.

भारतीय वन अधिनियम, १९२७ तसेच वन्यजीव (संरक्षण) अधिनियम, १९७२ अंतर्गत गुन्ह्यासंदर्भात तडजोड करण्यासाठी संदर्भ क्र. २, ४ व ५ मधील अधिसूचने अनुसार ठराविक पातळीवरील अधिकारी सक्षम आहेत. सबब कोणत्या वनगुन्ह्यासाठी तडजोड न्यायसंगत राहिल आणि कोणत्या वनगुन्ह्या संदर्भात न्यायालयात खटला दाखल करणे अपेक्षित राहिल हे प्रकरणाच्या गुणवत्तेच्या आधारावर निर्णय सक्षम प्राधिकाऱ्यानेच निर्णय घ्यावा व त्यानुसार पुढील कार्यवाही करावी.

**७ अवैध वृक्षतोड प्रकरणातील कार्यवाही :-** अवैध वृक्षतोडीची तत्परतेने दखल घेणे व शासनास अवगत करणे महत्त्वाचे असते. त्यासाठी खालील प्रमाणे मापदंड निर्धारित करण्यात आले आहेत.

अ.क्र.	घटना स्थळावरील वृक्षतोडीची किंमत	चौकशी अधिकारी	घटनास्थळी भेट देण्याची मुदत
१	रु. ५०,००० पर्यंत	वन परिक्षेत्र अधिकारी	माहिती मिळाल्यापासून ३ दिवसाचे आत
२	रु. ५०,००० ते २.०० लाख पर्यंत	सहायक वन संरक्षक / उपविभागीय वन अधिकारी	माहिती मिळाल्यापासून ३ दिवसाचे आत
३	रु. २.०० लाख ते ५.०० लाख पर्यंत	उपवनसंरक्षक / विभागीय वन अधिकारी / उपविभागीय वन अधिकारी	माहिती मिळाल्यापासून ३ दिवसाचे आत
४	रु. ५.०० लाखाचे वर	मुख्य वनसंरक्षक	माहिती मिळाल्यापासून ७ दिवसाचे आत

वर नमूद अधिकाऱ्याने केवळ तपासणीच करावयाची नसून, सदर गुन्हा प्रकरणाच्या तपासावर वैयक्तिक संनियंत्रण ठेवायचे आहे व आरोपी विरुद्ध कायदेशीर कार्यवाही होईल याची दक्षता घ्यावयाची आहे. आवश्यकता वाटल्यास प्रकरणात दोषी आढळणाऱ्या कर्मचारी / अधिकारी यांचे विरुद्ध विभागीय चौकशी करून उचित कार्यवाही देखील करावयाची आहे. पाच लाखापेक्षा जास्त किंमतीचे अवैध वृक्ष तोडीचे वनगुन्हे शासनाच्या निदर्शनास आणण्यात येईल.

**८ न्यायालयीन प्रकरणांचा पाठपुरावा :-** वन परिक्षेत्र अधिकारी, सहाय्यक वनसंरक्षक, विभागीय वन अधिकारी, उपविभागीय अधिकारी व उपवनसंरक्षक यांनी न्यायालयात फिर्याद मुदतीत दाखल होईल याची दक्षता घ्यावी. समरी ट्रायलप्रमाणे चालवावयाची प्रकरणे तशी चालतील याबाबत शासकीय अभियोक्त्या व न्यायालय यांचेशी संपर्क साधून उपाययोजना करावी.

आवश्यक तेथे शास्त्रीय पुरावा / अभिप्राय तज्ञ संस्थेकडून घेऊन न्यायालयापुढे वेळीच सादर होईल हे पहावे. सरकारचे वतीने साक्षीसाठी येणाऱ्या व्यक्तीची गैरसोय होणार नाही, त्यांना आर्थिक भत्ते वेळीच मिळतील हे पहावे. साक्षीदार फितूर (Hostile) होणार नाही व झाल्यास त्याचे विरुद्ध कायदेशीर कार्यवाही होईल हे पहावे. तपास, चौकशी व न्यायालयीन कामात कुचराई करणाऱ्या अधिकारी/कर्मचारी यांचे

विरुद्ध कठोर कार्यवाही करावी. विभागाविरुद्ध निकाल गेल्यास वेळीच अपील / रिवीजन / रिव्यु / रिट पिटिशन बाबत कार्यवाही करावी. सर्व न्यायालयीन प्रकरणांची नोंद ठेवून त्यावर सहायक वनसंरक्षक आणि उपवनसंरक्षक यांनी संनियंत्रण ठेवावे. विभागीय व वृत्त स्तरीय अधिकाऱ्यांनी प्रत्येक महिन्यास न्यायालयीन प्रकरणांचा आढावा घ्यावा.

भारतीय वन अधिनियम १९२७ कलम २६ अंतर्गत विनिर्दिष्ट करण्यात आलेले बहुतांश वनगुन्हयाप्रकरणी कारावासाची कमाल मर्यादा १ वर्षापर्यंत आहे. सबब उक्त अधिनियमाखाली कलम ६७ व फौजदारी प्रक्रिया संहिता कलम २६२ ते २६५ च्या अधीन राहून न्यायालयात खटला दाखल करताना प्रकरण Summary Trial द्वारे निकाली काढण्यात यावी अशी विशिष्ट प्रार्थना फिर्यादमध्ये अंतर्भूत केली जाईल, या बाबत सर्व संबंधित प्राधिकाऱ्यांनी नोंद घ्यावी.

**९ दैनंदिनी सादर करणेबाबत :-** वनाधिकारी नेमके काय काम करतात तसेच वनसंरक्षणाबाबत त्यांचे स्तरावर घेण्यात येत असलेली दक्षता पुरेशी आहे किंवा कसे याचे आकलन त्यांची दैनंदिनी प्राप्त झाल्या शिवाय करता येत नाही. सबब याद्वारे निर्देशित करण्यात येत आहे की, दोन महिन्यापेक्षा जास्त कालावधीसाठी क्षेत्रीय वनाधिकाऱ्यांची दैनंदिनी प्रलंबित असल्यास त्यांची वेतन देयके पारीत होणार नाही, याची दक्षता घ्यावी. तसेच दोन महिन्यापेक्षा जास्त दैनंदिनी प्रलंबित असणारे अधिकारी हे स्वतः आहरण व संवितरण अधिकारी असतील तर त्यांनी त्यांचे स्वतःचे वेतन देयके पारीत करू नये. या निर्देशांचे उल्लंघन करणारे अधिकारी शिस्तभंग विषयक कार्यवाहीस पात्र ठरतील.

**१० मुख्य वनसंरक्षक/उपवनसंरक्षक/विभागीय वन अधिकारी/उपविभागीय वन अधिकारी यांनी घ्यावयाची विशेष दखल :-**

- I. आंतरराज्यीय सीमेवर असलेल्या क्षेत्रांसाठी संबंधित राज्यांच्या अधिकाऱ्यांबरोबर नियमित आंतरराज्यीय संरक्षण बैठक आयोजित होईल, याची दक्षता घेणे.
- II. पोलीस व महसूल अधिकाऱ्यांबरोबर सर्व पातळीवर समन्वय ठेवणे.
- III. विभागीय पातळीवर नियंत्रण कक्ष २४ तास सुरु आहे, याची खात्री करणे.
- IV. न्यायालयात खटला दाखल झाल्यानंतर त्याचा पाठपुरावा होईल, याची दक्षता घेणे.

- V. ज्यांच्या मदतीने वन गुन्ह्यातील मालमत्ता सरकार जमा झाली आहे, किंवा आरोपी न्यायालयात दोषसिध्द झालेला आहे. त्यांना महाराष्ट्र वन नियमावली २०१४, नियम ८३ अनुसार बक्षीस प्रदान करणे.
- VI. वनगुन्ह्याबाबत पाठपुरावा करण्यास कुचराई करणाऱ्या अधिकारी/कर्मचाऱ्यांविरुध्द प्रशासकीय पातळीवर कार्यवाही करणे.

सदर शासन निर्णय महाराष्ट्र शासनाच्या [www.maharashtra.gov.in](http://www.maharashtra.gov.in) या संकेतस्थळावर उपलब्ध करण्यात आला असून त्याचा संकेतांक २०१४०८१४११२४०८५३१९ असा आहे. हा आदेश डिजीटल स्वाक्षरीने साक्षांकित करुन काढण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने,

Uvais  
Mohammed  
Farooqui

Digitally signed by Uvais  
Mohammed Farooqui  
DN: c=IN, o=GOVERNMENT OF  
MAHARASHTRA, ou=REVENUE  
AND FOREST,  
postalCode=400032,  
st=Maharashtra, cn=Uvais  
Mohammed Farooqui  
Date: 2014.08.14 11:23:05  
+05'30'

(डॉ. यु. एम. फारुकी)

सह सचिव (वने)

महसूल व वन विभाग

प्रति,

- १) प्रधान मुख्य वनसंरक्षक (वन बल प्रमुख), महाराष्ट्र राज्य.
- २) प्रधान मुख्य वनसंरक्षक (वन्यजीव), महाराष्ट्र राज्य.
- ३) प्रधान मुख्य वनसंरक्षक (उत्पादन व व्यवस्थापन), महाराष्ट्र राज्य.
- ४) व्यवस्थापकीय संचालक, महाराष्ट्र वन विकास महामंडळ.
- ५) सर्व अपर प्रधान मुख्य वनसंरक्षक,
- ६) सर्व मुख्य वनसंरक्षक (प्रादेशिक / वन्यजीव), महाराष्ट्र राज्य.
- ७) सर्व वनसंरक्षक,
- ८) सर्व जिल्हाधिकारी,

GRAZING RULES

Grazing Rules for the  
Maharashtra State

GOVERNMENT OF MAHARASHTRA  
Revenue and Forests Department.  
Resolution No.MFP-1371/237035-Z.  
Sachivalaya, Bombay-400 032, 3rd November 1973.

READ:- (i) Government Resolution, Revenue and Forests  
Department, No.MFP-1365/132211-Y, dated  
6th December 1968.

(ii) Letter No.D/GRS/47(70.71)/5010 of 71-72,  
dated 17th November 1971 from the Chief  
Conservator of Forests, Maharashtra State,  
Poona.

RESOLUTION:- In order to remove the disparity in regard  
to the procedure of cattle grazing with forest in the  
various regions of the State, a uniform grazing policy was  
evolved as laid down in Government Resolution referred to  
in the preamble. The grazing settlement work has been  
completed in some districts and the same is in progress in  
other districts. On completion of the work pertaining to  
the grazing settlement it would be necessary to have uniform  
procedure in regard to grazing. Government is accordingly  
pleased to prescribe grazing rules as printed in the  
\*accompaniment to this Resolution. The various forms which  
are to be used in connection with grazing are also appended  
to this Resolution.

2. The Director of Publicity should be requested to give  
wide publicity to the rules by issuing suitable press note.

By order and in the name of the Governor of Maharashtra,

D. V. DAMLE,  
Under Secretary to the Government of Maharashtra,  
Revenue and Forests Department.

Accompaniment: Grazing Rules and Forms. *These were issued long back. How is it that this is being received after three years?*

To

The Chief Conservator of Forests, Maharashtra State, Poona,  
All Conservators,  
All Divisional Forests Officers and Sub-Divisional Forests  
Officers in charge of independent sub-divisions,  
All Commissioners,  
All Collectors,  
The Dairy Development Commissioner, Bombay,  
The Director of Animal Husbandry, Poona,

CCP. ROTA-R&FD-H-801(3,000+5-11-73)-1

ACCOMPANIMENTS TO GOVERNMENT RESOLUTION, REVENUE AND FORESTS  
DEPARTMENT, No.MFP-1371/237035-Z, DATED THE 3rd NOVEMBER 1973.

GRAZING RULES FOR THE MAHARASHTRA STATE

I. GRAZING LICENCES

1. Grazing Policy: - Grazing Policy for the Maharashtra State is laid down in Government Resolution No.MFP-1365/132211-Y, dated 6th December 1968 given in Appendix A.

2. Grazing Division Grazing Units: - Each Forest Division will be a grazing Division. It shall be divided into grazing units under the orders of the Chief Conservator of Forests, Maharashtra State, Poona.

3. Validity and duration of licences: - Grazing licences shall be valid for the grazing unit only, and shall cover a period not exceeding one forest year. All licences shall lapse on the last day, i.e. the 30th June of the Forest year for which they are issued.

Note: - In exceptional circumstances the Divisional Forest Officer may permit cattle for which a pass has been taken for one unit to graze in another on the same licence without a fresh fee.

4. Licences to whom given and for what areas available: -

(i) All grazing in the forest (whether free or otherwise) should be on permit granted by the Forest Department.

Grazing licences at prescribed rates will be issued to excess cattle of cultivator family and others and may be taken out for any grazing unit in a grazing division provided there is room in the grazing unit.

Note: - The issue of licence is subject to such definite allotment of villages to particular grazing unit, to such limitation on the number of cattle to be grazed in any such unit as may have been ordered by Government after special enquiry, and also to such closure to grazing as may be enforced in accordance with the prescriptions of sanctioned Working Plans.

(ii) Grazing licences for free grazing of cattle of cultivator family and others will be issued during the period 15th June to 31st July only. From August 1st no grazing licence for free grazing will be issued; licences at prescribed rates only then be available and they will be issued by Round Officers and Range Forest

Provided that if the issue of licences for free grazing cannot be completed by the end of July, and the Divisional Forest Officer is satisfied that there is good and sufficient reason, he may extend the period of issue to a date not later than August 20th. This power is to be exercised only in exceptional cases.

(iii) A grazing licence may be refused over a period of one year to any individual who has been guilty of persistent illicit grazing, on the order of the Conservator of Forests. Grazing Licences may be refused over a like period in the case of communities whose members have been guilty of persistent illicit grazing, on the order of the Government.

5. The Divisional Forest Officer may from time to time, fix and alter sites for cattle camps in the forests. While fixing the sites the suggestions made by Grazing Settlement Officer will be taken into account. If such a site has been fixed in any forest, licences wishing to keep their cattle in such camps shall utilize the site selected.

6. Cattle Units:- The cattle units should be computed as follows:

(a) Adult buffalo	... ..	2 units.
(b) Adult cow, bull or bullock	... ..	1 unit.
(c) Buffalo calf under three years of age at the commencement of the grazing year	... ..	1 unit.
(d) Cow calf	... ..	$\frac{1}{2}$ unit.

7. Grazing concessions and rates of Grazing fee:- Grazing units should be formed where in specified number of animals should be permitted to graze.

Essential cattle, subject to a maximum of two plough units per cultivator family should be allowed free grazing in forests. Plough unit shall mean four cattle units computed in accordance with rule 6 above.

8. Grazing Fees:- Essential cattle exceeding the aforesaid limit for free grazing and all non-essential cattle should be charged grazing fees at the following rates:-

(a) Adult buffalo	Fees per annum	Rs.2/-
(b) Adult cow, bull or bullock	"	Re.1/-
(c) Buffalo calf (less than 3 years but more than 6 months old)	"	Re.1/-
(d) Cow calf (less than 3 years but more than 6 months old)	"	Re.0.50

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Calves upto the age of 6 months should be exempted from the payment of grazing fees.

9. Condition as to ownership when free and ordinary rates are allowed:- In all cases the concession of grazing cattle free is subject to the condition that the animals to be so grazed are actually owned by the cultivator family.

10. Certificate to be obtained from Patwari:- Any person who wishes to obtain a licence for free grazing must obtain a certificate from the Patwari, Talathi, Gramsevak as provided for in rule 19.

11. Admission of buffaloes at free rates:- Buffaloes may be included in the number of animals allowed by rule 7 to be grazed free only to the condition that the bulls, bullocks and cows owned by the cultivator family concerned shall be counted first against that number.

12. Ordinary rates:- For all cattle, other than those admissible for free grazing, licences shall be taken out at prescribed rates but no cattle owner is required to take out a licence for more than the actual number of cattle he desires to graze in Government forests.

If a cattle owner wishes to graze his cattle in different herds, he shall be given separate licences for each herd. The licence issuer should not compel cattle owners to obtain licences for all the cattle owned by them as shown in the columns 4, 5, 6, 7, 8 and 9 of Patwari certificate but should, as soon as possible after the last August, report to the Range Officer the name of any person who takes out a pass for a smaller number than the total owned.

13. Calves:- Calves less than six months old on 1st July of the Grazing year may graze free when accompanying other cattle which are being grazed under licence.

14. Free Transit within grazing Division:- Except in the case mentioned in the rule next following, holders of licences are allowed a reasonable time for the passage of their cattle, free of charge, through every unit within the grazing division in which the owner resides, which they are obliged to traverse in order to reach that for which they have taken out grazing licences.

Note:- No transit pass, as described below, is required for cattle subject to this rule.

15. Transit:- A transit pass is required to be taken out for all cattle proceeding to graze in a Government forest outside the grazing division in which their owner resides, if on the way there, they are obliged to pass through Government forest and if owner has not previously taken out a licence for the grazing division to which he is proceeding. If he has taken out a licence before proceeding to the selected unit with his cattle the licence can be produced as authority for passing through Government Forest in lieu of a transit pass.

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Note:-1 All cattle proceeding to graze in a Government forest outside the grazing division in which their owner resides, are charged for at prescribed rates (See rule 8). If the owner has not previously taken out a licence for the grazing division to which he is proceeding, he must do as soon as the cattle reach the grazing division in which they are to be grazed.

Note:-2 When a cultivator (family) who has not taken out a grazing licence wishes to graze his cattle in areas, other than Government forest while to reach such areas he is obliged to pass through Government forest he may be allowed transit passes at the discretion of the Divisional Forest Officer. In these cases the transit passes shall not be issued by licenced vendors, but by Range Officers, and only on the definite order of the Divisional Forest Officer.

16. Issue of transit passes:- Transit passes shall be issued in the form of Appendix-C and at the rate of ten paise per animal for a period not exceeding one month, excluding calves (vide rule 13), and shall be subject to the condition that the cattle covered by the pass shall not stay more than a reasonable time in each grazing unit through which they are obliged to pass, and while passing through any such unit shall be halted only at recognized forest paraos, at any one of which they shall not ordinarily halt for more than two nights. Transit passes (other than annual transit passes, vide rule 18) are valid only for the journey specified on the pass and must be given up on reaching destination.

Note:- Should the journey occupy more than one month a further monthly fee must be paid.

17. No transit pass shall be required for animals accompanying ordinary travellers, including cartmen.

18. Transit passes for professional carriers and cattle dealers:- Professional carriers and cattle dealers, such as Banjaras, Hasdeva, Kathewaris, Thelaris and Gawalis are allowed to take out transit passes under the conditions, detailed in rule 16, when journeying through Government forests. But persons of this description, if they prefer, may take out annual transit passes in the form given in Appendix-D on payment of Rs.2/- per buffalo, Re.1/- per bull, bullock, cow, horse or pony. Such annual passes, in addition to being transit passes, shall cover the grazing of the animals entered therein in any one grazing unit while the pass holders are resident at their homes during the rainy season. The name and situation of such unit shall be specified on the pass.

## II. PROCEDURE FOR GRANT OF LICENCES

19. Certificates to be issued by Patwaris/Talathis/Gram Sevaks to applicants entitled to graze their cattle free:- The Patwaris/Talathis/Gram Sevaks shall issue the certificate on demand to all cultivator families within his jurisdiction, subject to any orders passed under Sub-Rule (ii) of rule 4 in the prescribed form in Rule 22 and he shall be entitled to charge a writing fee of 5 Paise per certificate. Certificates may be obtained from the Patwaris/Talathis/Gram Sevak at any time from 1st to 31st May. The Patwaris/Talathis/Gram Sevaks will not issue any certificate for the ensuing grazing year after 31st May.

20. In case of loss of a certificate, a duplicate copy can be obtained from the Patwaris/Talathis/Gram Sevaks concerned who shall be entitled to charge a writing fee of 10 Paise for such copy. The word "Duplicate" should be written across the copy by the Patwari/Talathi/Gram Sevak.

21. New Settlers:- If a new settler wishes to obtain a certificate, the Patwari/Talathi/Gram Sevak shall prepare one for him after satisfying himself that he has taken up land for agricultural purposes. This certificate shall not be valid unless endorsed by the Revenue Inspector/to the effect that the person to whom the certificate is given to a bonafide cultivator.

22. Patwari/Talathi/Gram Sevak Certificate:- See Appendix No.E.

These certificate books shall be written by the Patwari/Talathi/Gram Sevak between 1st and 31st May. The Patwari/Talathi/Gram Sevak shall sign and date each certificate.

Part I of the Certificate shall be retained in the certificate book by the Patwari/Talathi/Gram Sevak. Parts II and III shall be given to the cultivator (families), and shall be presented by him to the licence-vendor when he applies for a licence.

23. Certificate holders entitled to licence for free grazing:- Subject to the provisions of rule 4 a cultivator (family) personally producing his certificate to a licence-vendor, shall be entitled to obtain a licence for free grazing and at prescribed rates for such animals as are admissible under these rules.

Note:- If the applicant is unable to appear in person, he should endorse the certificate, stating the number and kind of animals he wishes to graze.

24. Licences to be issued by Forest Licence Vendors:- Licences will be issued in the form given in Appendix-E. They will be issued by Licence-Vendors persons authorised to issue licence from 15th June to 31st July (or such later

date as the Divisional Forest Officer may order under the proviso to rule 4(ii); after this date they will be issued only by Range Officers and Round Officers.

25. How licence Vendors are to deal with certificate:- The licence vendor shall sign and date both parts of each certificate presented to him by the cultivator, before he issues a licence for free grazing and shall attach part III of the certificate to the part of the licence form that remains in his possession. Part II of the certificate shall be returned to the cultivator concerned.

26. Information to be supplied to Licence Vendors:- Licence Vendors shall be supplied with a list showing the allotment of villages to particular units in their own grazing divisions and the limits fixed as regards the numbers of cattle to be grazed in particular unit, where any such allotment, or limitation has been ordered by Government.

27. Lost grazing licences:- Licence holders can obtain copies of lost grazing licences by purchasing a 50 Paise rated pass or remitting the amount in the treasury per copy from the Commission Vendor, and presenting it to the Range Forest Officer with an application. The later will issue a copy of the lost licence.

### III. CHECK OF CERTIFICATES AND LICENCES

28. Check of certificate by Revenue Inspectors:- The Revenue Inspector/shall check the entries in Part I of the certificate book but shall in no case call cultivators away from their villages for this purpose. Ordinarily the Revenue Inspector shall check at least 50% of the entries in column 3 to 9 with the aid of the latest Titamma milan khasra or village form No.15, but the Collector may, in consultation with the Divisional Forest Officer reduce the standard wherever advisable.

29. Check of certificates by the Superintendent of Land Records:- The Superintendent of Land Records and his Assistant shall make it a point of touring during June and July and checking as such as possible of the work of Patwaris/Talathis/Gram Sevaks and Revenue Inspectors under these rules.

30. Certificate books after check to be sent to the Divisional Forest Officer:- On the 1st August the Patwari/Talathi/Gram Sevak shall send Part I of the certificate book to the Revenue Inspector who shall, thereupon, forward it to the Divisional Forest Officer for comparison with Part III (see rule 31). Should the Divisional Forest Officer find any discrepancies between Part I and Part III he shall report to the Collector for necessary action.

31. Licence Vendors to forward counterfoils to the Divisional Forest Officer:- The Licence Vendors shall forward to the Divisional Forest Officer the counterfoils of the licences issued by them with Part III of the certificates attached vide rule 25.

32. Certificate and Licences to be produced on demand:- The Range Forest Officer or any Forest Official authorised by him may call on the Patwari/Talathi/Gram Sevak or Cultivator to show him the parts of the certificates, licences and transit passes in his possession.

33. Check by Forest Department:- The Divisional Forest Officer or Range Officer when touring through a Patwari's/Talathi's/Gram Sevak's circle may call on the Patwari to produce the Titamma milan Khasara or the village form No.15 for purposes of check, but patwaris shall on no account be called away from their circles for this purpose.

#### IV. INSTRUCTIONS FOR THE COLLECTION AND REMITTANCE OF GRAZING REVENUE

34. Grazing revenue shall be collected in cash paid for grazing licences. The agency employed for issuing grazing licences for cattle grazing in Government forests will mainly be the same as that employed for sale of rated passes for forest produce. viz. Commission Vendors shall ordinarily be paid a commission of 10 Paise for each rupee of grazing revenue collected by them provided that the Conservator of Forests may, for reasons to be recorded in an order in writing, fix the rate of discount to a figure not exceeding 30 Paise in a rupee. Such sanction shall hold good for a period of not more than 12 months at a time from the date of its grant and shall be subject to revision each year. The grazing year for which licences shall be valid shall commence on the 1st July and end of the 30th June.

Note:- Whenever possible Gram Panchayat will be appointed as Vendor.

35. The Range Officer shall by the end of April every year, report to the Divisional Forests Officer whether the number of Commission Vendors in his range is adequate, and whether all the vendors are efficient enough to carry on the work of issuing grazing licences if he requires any additional vendors from the permanent forest establishment. The Divisional Forest Officer shall then proceed on the recommendation of the Range Office to appoint a licence issuer either a Commission Vendor or Round Officer, for each grazing unit.

36. Each grazing unit and the villages served by it shall constitute a Grazing Circle. For each such circle a headquarter shall be fixed where the licence vendor shall ordinarily reside. Each circle shall further be sub-divided

into a convenient number of sub-circles and a centrally situated village shall be fixed for each sub-circle at which licence shall be issued for the sub-circle. Such Sub-Division shall be approved by the Divisional Forest Officer and shall remain in force until altered by a special order of that officer, who shall also fix the dates for the issue of licences at the headquarters of each sub-circles shall be formed to prevent any owner of cattle from having to go more than 6 K.M. for his licence. A list of such dates shall be published by the 15th May in all the villages concerned through the Patwaris and village Kotwals. Three to four days should ordinarily be allotted for the issue of licence for each sub-Circle. Commencing from the 15th June the licence issuer shall visit each sub-circle headquarters in turn and issue at each, licences for the villages allotted to the Sub-Circle. During at least the last week of July he shall be present at the headquarters of the circle for the issue of licences for the whole circle.

37. Every licence issuer shall be personally responsible for all forest, revenue collected by him. No licence issuer shall without special reason to be reported in writing with his next remittance, retain a cash balance on account of forest revenue exceeding the amount of security furnished by him.

38. The Range Officer shall arrange to have all grazing revenue collected by licence issuers in his range remitted into the treasury or sub-treasury promptly. For this purpose he should arrange to have the money brought to him by members of the forest staff who have furnished adequate security. The Range Officer will remit the revenue from time to time to the treasury under a treasury challan, as in the case of other forest revenue.

39. Grazing licence book shall be kept under lock and key in the custody of the licence clerk in Divisional Office. They should be treated in the same way as blank cheque books and a complete account of their issue and use maintained both in divisional and range offices.

The stock of grazing licence books shall be checked monthly by the Head Clerk and quarterly by the Divisional Forest Officer or his Gazetted Assistant. The Divisional Forests Officer or his Gazetted Assistant, must, however check the stock himself before the grazing licence books are issued to the range officer in the middle of May and again immediately after all the un-used and partly used grazing licence books are returned to the Divisional Office as prescribed in rule 47.

Each grazing licence form shall bear <sup>a rubber</sup> stamp impression showing the year and the name of the Division for which it is valid. Before making a Range Office inspection the Divisional Forest Officer shall obtain from his stock register, an abstract of the grazing licence books issued to the Range and check this carefully with the Range Stock Register and verify the entries in that register.

40. During the time of issue of grazing licences the Range Officer and his Round Officers should constantly tour in their respective charges, paying surprise visits to issuing stations as often as possible and checking the work. Such tours will enable the Range Officer and Round Officers to hear and promptly redress cattle owner's grievances and also to detect and prevent corruption and will facilitate the safe transmission of grazing revenue as provided above.

41. The licence issuer shall maintain a separate grazing cash book (Form IX-A-27); in which he shall enter all grazing licences issued by him. This form shall be filled in daily and the totals of different columns entered daily. Separate forms shall be used for different units, if the same licence issues licences for more than one unit.

42. As soon as possible after the 1st August, the Range Officer should check the grazing cash book of each of his licence issuers with the licences issued by him and tally the amount of revenue recovered with the treasury challans. This check should be very elaborate. Each licence should be checked with the patwari certificates and also with the entry in the grazing cash book. The rates should also be checked. An abstract of the total number of cattle for which licences have been issued should be prepared village by village unit by unit, the figures compared with those of the previous year and all fluctuations explained. Those abstracts should be submitted to the Divisional Forest Officer by the end of August, at the latest.

After the check is completed the Range Officer should recover all counterfoils of used licence books, all unused and partially used books and the grazing cash book and deposit them in his office until they are sent to the divisional office as prescribed in rule 47.

43. After the 31st July, the Range Officer shall arrange for the check of the cattle in the forest by the Round Officers and if necessary, senior literate Forest Guards. The check should be completed by the middle of September, at the latest. The Range Officer should also furnish each checking officer with a list of cattle owners who obtained licences for a smaller number of cattle than that owned by them. He should closely participate in the work of checking.

44. The Divisional Forest Officer may temporarily transfer Special Duty Staff from charges during the period of checking set out in rule 43.

45. The checking officer, should check the number of cattle actually grazing in the forests with the number entered in the licence, verify the entries in the licence with those in the Patwari/Talathi/Gram Sevak certificate and check the rates of grazing duty recovered. In the case of cattle not covered by licences, he should submit the usual offence report to the Range Officer and should also report any discrepancies in the licences. In token of having checked the cattle he should sign and date both the

second and third parts of the licences produced by the grazier, noting thereon any discrepancies discovered, and take away with him the third part of the licence, returning the second part and the Patwari/Talathi/Gram Sevak certificate to the grazier. The percentage of checking of grazing licences and collection of the third parts in the forests should at least be 75 per cent.

46. If a grazier is in charge of cattle of more than one owner, it is not sufficient to check the total number of cattle found grazing with the total number entered in all the licences taken together. The grazier should be made to state the number of cattle of each owner found grazing that day and each such number actually grazing is in excess of that entered in the licence of an owner, the excess number should be created as not covered by licence, though the total number in the herd may tally with or is found to be even less than the total entered in all the licences taken together.

47. The checking officer shall prepare a list of all the third part of licence recovered by him and send the list, together with the third parts, to the Range Officer immediately. On receipt of the third parts in the Range Officer the Range Clerk should paste each of them on the corresponding counterfoil and check at least 50 per cent. of such counterfoils, bringing any discrepancies or irregularities discovered by him during the course of check to the notice of the Range Officer. The checking and pasting of the counterfoils should be completed by the Range Clerk at the latest by the end of November. While the Range Clerk is checking and pasting the third parts, the Range Officer should scrutinize his work by checking at least 5 per cent. of the third part of the licence himself.

When all the third parts of licences recovered have been checked and pasted and not later than the 31st December in any case, the counterfoils of grazing licence books together with all the unused and partially used books shall be sent to the Divisional Office for further check.

At least 50 per cent. of the counterfoils should be checked in the Divisional Office by the clerk concerned and 5 per cent. by a Gazetted Officer.

Before these are submitted, a limited number of licence books will be sent to the Range Officers and Round Officers for the issue of licences during the remainder of the year. All such books, whether used or unused, will be again returned to the Divisional Office after receipt in Range Offices of the new stock of books in May. It is essential that on receipt in the Divisional Office all books, whether used or unused, should be checked with the stock register to ensure that none have been kept back by the Range Officer.

APPENDIX - A.

Grazing Policy  
Maharashtra State.

GOVERNMENT OF MAHARASHTRA  
Revenue and Forests Department.  
Resolution No.MFP-1365/132211-Y.  
Sachivalaya, Bombay-32(BR), dated 6th December 1968.

RESOLUTION

Different sets of rules regarding grazing in Government Forests are at present prevalent in the three regions of this State, viz. Western Maharashtra, Vidarbha and Marathwada. This disparity needs to be set right. Further, the Government of India has in its National Forest Policy Resolution laid down certain guide-lines for formulation of the grazing policy by the State Government. Accordingly, a grazing policy in consonance with these guide-lines need to be evolved for uniform application throughout Maharashtra. Such a policy must have the ultimate aim of providing ideal pasturage within the resources available in the State Forests without letting the resource itself to impair and deteriorate. It has further to be based on sound principles of forestry. The entire question has been engaging the attention of Government for some time past. It was also referred to the State Forest Advisory Committee for its advice.

2. After examining the question in all its aspects and also taking into consideration the views unanimously expressed by the State Forest Advisory Committee, Government is pleased to direct that the Grazing Rules as set out in the annexure to this Government Resolution should be made applicable throughout the State of Maharashtra.

3. In the Vidarbha region of the State where grazing settlements have already been made, the rules contained in the annexure to this Government Resolution should be made applicable from the 1st July 1969, when the next grazing year will commence. In the remaining areas these rules should be enforced as and when grazing settlements are made. These settlements should be undertaken in stages. The areas containing fairly good forest; which are in danger of destruction due to uncontrolled grazing should be selected first for the settlement work. The selection of the areas should also be so made as to be able to demonstrate within a reasonably short period how the forests in these areas could be developed with controlled grazing. The work of carrying out grazing settlements should be undertaken in Thana, Nasik, Dhulia, Jalgaon and Nanded Districts in the instance first.

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4. This Government Resolution issues with the concurrence of Finance Department vide its un-official reference No.17567/3258-III, dated the 4th November 1968.

By order and in the name of the Governor of Maharashtra,

A. J. PALIMKAR,  
Under Secretary to Government.

ACCOMPANIMENT TO GOVERNMENT RESOLUTION, REVENUE AND FORESTS  
DEPARTMENT, No.MFP-1365/132211-Y, DATED THE 6th DECEMBER 1968.

GRAZING RULES FOR FOREST AREAS IN MAHARASHTRA STATE

In areas where no Grazing Settlements have so far been carried out, such settlements should first be undertaken for the purpose of classifying the various forest areas on a functional basis and fixing the maximum grazing incidence for each category as indicated below:-

(a) Protected Forests:- This category will include steep and precipitous forests (especially those in the catchment areas of important river valley projects and also the denuded lands which are in dire need of soil conservation and afforestation, Grazing should be altogether prohibited in these forests save in exceptional cases, when too the incidence should not exceed one cattle unit for 10 acres (A cattle unit is defined in para (2) below).

(b) Trea Forests:- This category will include forests where production of timber is the main object of management. The grazing incidence for these forests should be one cattle unit for 3 acres.

(c) Minor Forests:- This category will comprise forests in which production of firewood on a sustained basis is the prime object of management. The grazing incidence for these forests should be one cattle unit for 1.5 to 2 acres.

(d) Pasture lands:- This category will include openly stocked forests or lands that have ceased to yield even small timber but which are conveniently situated for providing grazing to the adjoining cattle population. The grazing incidence for these lands should be one cattle unit per acre.

(e) Grass Reserves:- This category will include all forest areas set apart for the production of good fodder grass. Grazing should be completely eminated from these areas, but cutting of grass may be permitted according to Rules.

2. The cattle units should be computed as follows:-

- |  |                     |
|--|---------------------|
| (a) Adult Buffalo.   | 2 Units.            |
| (b) Adult Cow, bull or bullock.  | 1 Unit.             |
| (c) Buffalo calf under three years of age at the commencement of grazing year. | 1 Unit.             |
| (d) Cow Calf.  | $\frac{1}{2}$ Unit. |

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3. Grazing units should be formed wherein a specified number of animals should be permitted to graze.

Essential cattle, subject to maximum of two plough units per cultivator family should be allowed free grazing in forests. A plough unit shall mean four cattle units computed in accordance with para 2 above.

4. Essential cattle exceeding the aforesaid limit for free grazing and all non-essential cattle should be charged fees at the following rates:-

	<u>Fees per annum</u>
(a) Adult buffalo	Rs.2/-
(b) Adult cow, bull or bullock	Re.1/-
(c) Buffalo calf (less than 3 years) but more than 6 months old	Re.1/-
(d) Cow calf (less than 3 years but more than 6 months old)	Re.0.50

Animals upto the age of 6 months should be exempted from the payment of grazing fees.

5. The villages should be listed under each grazing unit to ensure equitable distribution within permissible limits of the number of cattle that may graze. Where demand for grazing priorities to be laid down.

6. In any case, cattle over and above the carrying capacity of a grazing unit, should not be allowed to graze in the unit.

7. All grazing in forests (whether free or otherwise) should be on permits granted by the Forests Department. Penal action (such as impounding of cattle or prosecution) should be taken against unauthorised grazers. Grazing in forests by goats should be prohibited altogether. For sheep grazing and rate of fees fixed after obtaining Government approval.

*The prohibited altogether. A specific area should be set apart and separate incidence*

8. The forests areas should be closed to grazing according to silvicultural requirements under the provisions of sanctioned working plans. Monsoon and rotational closures should be provided in heavily grazed units and in area susceptible to erosion. Special closures for specified period may also be enforced for the implementation of special schemes of the Forests Department. Fodder areas required for fodder Banks should be closed to grazing.

APPENDIX - B

Book No. -----

Patwari's/Talathi's/  
Gram Sevak's  
Certificate Book No.  
Certificate No. \*

Licence No.

Licence for grazing

(First Part)

(Second Part) As per I part.

(Third Part)

-Do-

Name -----

Residence -----

Particulars of cattle	Number	Rate	Grazing fees Rs.P.
-----------------------	--------	------	-----------------------

(1) Free

(2) At prescribed  
rates

Near for which valid -----

Forest Range -----

Grazing unit for which licence is issued -----

Signature of Licence Vendor  
Naka.

Date:

This licence is subject to the following conditions:-

(1) All cattle taken into or allowed to stay in the forest shall be accompanied by a Major herdsman in charge of them.

(2) The herdsman will take this licence with him whenever he takes cattle into the forests and will then produce it on the demand by any forest official.

(3) In the event of contagious disease occurring in the neighbourhood of the grazing unit for which the licence is issued, Government may, if it thinks fit, arrange for the inoculation of the Cattle, free of cost, and the herdsman shall permit such inoculation to be carried out.

On breach of any of these conditions the licence will be void and the cattle, herdsman and owners will be liable to -- though this licence did not exist.

APPENDIX - C

Transit Grazing Pass - Ordinary (First part)

(Second part) as per I part

(Third Part) -Do-

Book No.-----

Pass No.-----

Name -----

Residence -----

From District	To District	Number of animals excluding calves under 6 months old	Rate	Period of for which available (see foot note 2)	Total
1	2	3	4	5	6
					Rs. P.

Date of issue:-

Licence Vendor's Signature

Naka

- (1) This transit pass is issued subject to the condition that the cattle covered thereby shall not stay more than a reasonable period in any grazing unit through which they are obliged to pass. While passing through any such unit the cattle shall be halted only at the recognized paraosx - at any one of which they shall not halt ordinarily more than two nights.
- (2) This pass is valid only for the journey specified on the pass and must be given up on reaching destination.

H-201(3,000+5-11-73)-9a

Grazing Policy  
Priorities for grazing.

GOVERNMENT OF MAHARASHTRA

Revenue and Forests Department.

Resolution No. MFP-1369/63695-Z.

Sachivalaya, Bombay-32(BR), Dated 2<sup>nd</sup> August 1971.

READ :- i) Government Resolution, Revenue and Forests Department No. MFP-1365/132211-Y, dated 6<sup>th</sup> December 1968.

Chief Conservator of Forests Letter No. D/GRS/991,  
Dated 19<sup>th</sup> May 1969.

RESOLUTION :- Rule 5 of the grazing rules annexed to Government Resolution, Revenue and Forests Department No. MFP-1365/132211-Y, dated 6<sup>th</sup> December 1968, envisages fixing of priorities for grazing where demand for it is heavy. Government after careful consideration is pleased to lay down the following priorities for admitting cattle in over-grazed units:-

1. Plough cattle and milch cattle of cultivators subject to the mazimum of 4 cattle units.
2. Additional plough cattle and milch cattle, if any, of cultivators subject to the mazimum of 4 cattle units.
3. Milch cattle of non-cultivators subject to the mazimum of 4 cattle units.
4. Remaining essential cattle including milch cattle of cultivators.
5. Milch cattle of non-cultivators and non-essential cattle of cultivators.
6. Non-milch cattle of non-cultivators.
7. Cattle from non-listed villages.

2. Government is also pleased to direct that the following categories of cattle will be considered as essential cattle for the purpose of priorities.

ESSENTIAL CATTLE :

- A. Milch Cattle :- All cattle actually yielding milk will be considered as milch cattle.
- B. Agricultural Cattle :- Will include up to 4 cattle units per "plough"  
( Agriculturist having upto 20 acres cultivable land is considered to have one "plough")

By order and in the name of the Governor of Maharashtra,

A.N.HIRDE,

Under Secretary to the Government of maharashtra.

GOVERNMENT OF MAHARASHTRA  
Revenue and Forests Department.  
Government Resolution No. MFP 1365/132211-Z.  
Sachivalaya, Bombay-32(BR), Dated 22nd December 1971.

H/138  
7-4-71  
cc

READ:- Government Resolution, Revenue and Forests Department  
No. MFP 1365/132211-Y, dated the 6th December 1971.

The Chief Conservator of Forests' Letters  
No. DGRS/157(68-69)/A 7271, dated the 11th March 1971  
and No. DGRS/157(68-69)-A-2286, dated the 19th July 1971

GOVERNMENT RESOLUTION:- Rule 7 of Grazing Rules, annexed  
to the Government Resolution, Revenue and Forests Department  
No. MFP-1365/132211-Y, dated 6th December 1968, lays down that  
specific area should be set apart and separate incidence and  
rate of fees should be fixed for sheep grazing after obtaining  
Government's approval. Government, on careful consideration, is  
pleased to direct that each sheep should be considered as 1 unit  
and Re.1/- per annum should be charged for each of them for  
grazing, in areas specifically set apart for the purpose.

2. This Government Resolution issues with the concurrence  
of the Finance Department (vide its un-official reference  
No. 21558/736-F-9, dated the 20th December 1971).

By order and in the name of the Governor of Maharashtra,

V.S. KULKARNI,  
Under Secretary to Government.

Copies to :-

The Chief Conservator of Forests, Maharashtra State, Poona,  
All Conservators of Forests,  
All Divisional Forests Officers and Sub-Divisional Officers,  
in-charge of independent Sub-Divisions,  
All Divisional Commissioners,  
All Collectors,  
The Dairy Development Commissioner, Bombay,  
The Director of Animal Husbandry, Poona,  
The Director of Agriculture, Poona,  
All other Heads of Departments,  
The Accountant General, Maharashtra State, Bombay,  
The Additional Accountant General, Maharashtra,  
Nagpur Branch, Nagpur,

P.T.O.

GCP.ROTA/R.&F.D.-H-862(3.125+5-12-71)

94/0

महाराष्ट्र शासन,

महसूल व वन विभाग,

शासन निर्णय क्र. एमएफपी-१२६४/१२२२११/

मंत्रालय, मुंबई-४०० ०३२,

दिनांक : ११ सप्टेंबर, १९६५.

- वाचा : १] महसूल व वन विभाग, शासन निर्णय क्र. एमएफपी-१२६४/१२२२११/ 1  
डोड, दि. २२ डिसेंबर, १९६४,  
२] महसूल व वन विभाग, शासन निर्णय क्र. एमएफपी-१२६४/१२२२११/  
वाच, दि. ६ डिसेंबर, १९६८.

शासन निर्णय :

शासनाचे वर संदर्भित दि. ६ डिसेंबर, १९६८ च्या शासन निर्णयान्वये वन जमिनीवर मेट्यांच्या चराईसाठी केले क्षेत्र निर्धारित करण्यात यावे, तसेच, मेट्यांच्या चराईसाठी विशिष्ट दराने शुल्क आकारण्यात यावे असे आदेश काढले आहेत. त्याचप्रमाणे वर संदर्भित शासन निर्णय, दि. २२ डिसेंबर, १९६४ अन्वये प्रत्येक मेट्यां ही एक घटक मानून त्यासाठी रु. १/- प्रतिवर्ष असे चराईशुल्क आकारण्यात यावे असे ठरविण्यात आले आहे.

२. वरील आदेशांचे अधीकरण करून शासन आता असे आदेश देत आहे की, वनक्षेत्रात मेट्यांच्या चराईसाठी कोणतेही चराई शुल्क यापुढे आकारण्यात येऊ नये. असे असले तरी, मेट्यांच्या चराईसाठी सध्या अस्तित्वात असलेली परवाना देणेबाबतची पध्दत चालू राहिल.

३. हा शासन निर्णय, वित्त विभागाच्या सहमतीने त्यांच्या अनीप-चारीक संदर्भ क्र. ४५५/९५/व्यय-१०, दि. ७.८.१९६५ ला अनुलक्षून निर्गमित करण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने.

*(Signature)*

[नि. ह. काकोडकर]

विशेष कार्य अधिकारी, महसूल व वन विभाग.

प्रति,

प्रधान मुख्य वनसंरक्षक, महाराष्ट्र राज्य, नागपूर.

कृषि - कस गामिन चरई  
अभिराणी हिंजिऊ

उपवनांरक्षक सर्वा (प्रा) बांना जाणी व गोग्य  
जायतीठरिण अशेषिण.

वृस  
को अभिराणी हुक अभिराणी  
वृस

राज्यातील ४८ वन विभागाचे चराई जमाबंदी  
अहवालास मान्यता देणेबाबत...

महाराष्ट्र शासन

शासन निर्णय क्रमांक : एमएफपी-२३०३/प्र.क्र.१२५/क-१

महसूल व वन विभाग

मंत्रालय, मुंबई - ४०० ०३२

दिनांक : ६.५.२००८

- नामावे : (१) शासन निर्णय, महसूल व वन विभाग क्रमांक एमएफपी-२३६५/१३२०११-वाय, दि.६.१२.६८.  
(२) शासन निर्णय, महसूल व वन विभाग क्रमांक एमएफपी-१३६९/६३६९५-झेड दि.३.८.१९७१.  
(३) शासन निर्णय, महसूल व वन विभाग क्रमांक एमएफपी-१३७१/२३७०३५-झेड  
दि.३.११.१९७३.  
(४) अपर प्रधान मुख्य वनसंरक्षक उत्पादन व व्यवस्थापन यांचेकडील पत्र क्रमांक  
कक्षा-१४/वनचर्चाई/३९२, दि.२०.०३.२००४.  
(५) शासन निर्णय, समक्रमांक दिनांक २३.१२.२००३ व दिनांक २१ मार्च, २००५  
(६) प्रधान मुख्य वनसंरक्षक, महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्षा -१६/आर-३/चराई  
जमाबंदी/३५६/०७-०८, दिनांक ८.६.२००७.  
(७) शासन निर्णय, समक्रमांक दिनांक २१.१०.२००७  
(८) शासन पत्र समक्रमांक दि.१८.१.२००८  
(९) प्रधान मुख्य वनसंरक्षक, महाराष्ट्र राज्य, नागपूर यांचे पत्र क्रमांक : कक्षा-१६/आर-३/च.ज.स्थ/  
प्र.क्र.६६(०७-०८)/१५७५, दिनांक २७.२.२००८.

शासन निर्णय :-

शासन पत्र समक्रमांक दि.१८.१.२००८ अन्वये शासन निर्णय समक्रमांक दिनांक २९.१०.२००७ च्या  
शासन निर्णयास दिलेली स्थिती उठविण्यात येत आहे तसेच आता या शासन निर्णयान्वये प्रधान मुख्य  
वनसंरक्षक, यांनी त्यांचे दिनांक २७.०२.२००८ चे पत्राच्या अनुषंगाने प्रस्तावित केल्यानुसार राज्यातील ४८  
वन विभागातील चराईजमाबंदी अहवालास मान्यता प्रदान करण्यात येत आहे व त्यानुसार राज्यातील  
अमरावती, पश्चिम मेळघाट, पूर्व मेळघाट, उस्मानाबाद, बीड, परभणी, अहमदनगर, पूर्व नाशिक, पश्चिम  
नाशिक, सोलापूर, भोर, पुणे, जुन्नर, ठाणे, जळार, अहमपूर, रोहा, अलिबाग, डहाणू, मंवासी, यावल,  
जळगांव, भामरागड, ब्रह्मपुरी, चिपळूण, घवतभाळ, पांढरकवडा, या २७ वन विभागात चराई जमाबंदी  
अहवालानुसार मेंढी चराईसाठी वनक्षेत्र उपलब्ध करण्यात येत नाही व राज्यातील बुलढाणा, वर्धा, भंडारा,  
नागपूर, गोंदीया, औरंगाबाद, नांदेड, पश्चिम धुळे, उत्तर धुळे, सिरोंचा, आलापल्ली, मध्यचांदा,

K.C.R. 1355/7/2008

गडचिरोली, वडवळ, चंद्रपूर, सावंतवाडी, सांगली, अहमदाबाद, अकोला व सांगली आणि पुसद अशा एकूण २१ वन विभागात मेंढी चराईसाठी काही प्रमाणात क्षेत्र उपलब्ध करून देण्यात येत आहे.

खालील १ ते ३ मध्ये नमूद मुद्यांवर सर्व चराई जमाबंदी अहवालात पूर्तता करण्याच्या अधिन राहून उपरोक्त १८ वन विभागातील चराई जमाबंदी अहवालास योग्यताची सदर मान्यता प्रदान करण्यात येत आहे.

(१) चराई जमाबंदी अहवाल मुंबई वन संहिता भाग ३, दिनांक ६.१२.१९६८ च्या शासन निर्णयानुसार तसेच संबंधित वन विभागाच्या कार्यआयोजनेनुसार असावे.

(२) संरक्षित वने, वृक्षाच्छीत वन, गीण वने, चराईसाठी संरक्षित कुरणे असे क्षेत्राचे वर्गीकरणानुसार चराईची क्षमता निश्चित करण्यात यावी.

(३) मेंढीसाठी तरतूद करतांना भुव्हा मेंढीचा चराई युनिट १ असून यानुसार मेंढी चराईसाठी क्षेत्र उपलब्ध करून द्यावे तसेच मुंबई वन संहिता भाग ३ मधील तरतुदीनुसार १५ सप्टेंबर ते १५ मे पर्यंत चराईने परवानगी देण्यात यावी.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व मावाने.

  
(शिरीष राजे)

विशेष कार्य अधिकारी,  
महसूल व वन विभाग

प्रांत.

प्रधान मुख्य वनसंरक्षक, महाराष्ट्र राज्य, नागपूर  
प्रधान मुख्य वनसंरक्षक (वन्यजीव), महाराष्ट्र राज्य, नागपूर  
सर्व अपर प्रधान मुख्य वनसंरक्षक, महाराष्ट्र राज्य, नागपूर  
सर्व मुख्य वनसंरक्षक (प्रादेशिक/वन्यजीव)  
सर्व विभागीय आयुक्त  
सर्व वनसंरक्षक (प्रादेशिक/वन्यजीव)  
सर्व जिल्हाधिकारी  
सर्व उप वनसंरक्षक (प्रादेशिक/वन्यजीव)  
उपविभागीय वन अधिकारी, भोर, चिपळूण, सांगली, बीड, उस्मानाबाद.  
सर्व संबंधित चराई जमाबंदी अधिकारी.  
वन कक्षातील सर्व कार्यासने, महसूल व वन विभाग, मंत्रालय, मुंबई.  
निवड नसता. फ-१ कार्यासने, महसूल व वन विभाग, मंत्रालय, मुंबई.

**Appendix No. XXX**  
**Statement Showing Details Of Grazing Units In East Melghat Forest Division**

Range	Name of Grazing Unit	Beat	Sr. No.	Village	Grazing Incidence	Area of Grazing Unit Ha.	Capacity of Grazing Unit (Cattle Unit)
Chikhaldara	Chikhaldara	Jamun Nala	1	Bori	614	4204.71	1051
			2	Jamun Nala			
			3	Bhandri			
		Motha	4	Kamapur			
			5	Aladoh			
			6	Lawada			
		East Chikhaldara	7	Chikhaldara			
			8	Amjhari			
			9	Mariyampur			
			10	Khatkali			
			11	Shahapur			
			12	Tetu			
			13	West Chikhaldara			
Chikhaldara	Dhamangaon	Chichati	14	Kalapani	885	3159.85	790
			15	Badnapur			
			16	Hirdamal			
		Dhamangaon	17	Jaitadehi			
			18	Bhilkheda			
			19	Manbhang			
		East Madki	20	Adnadi			
		West Madki	21	Madki			
			22	Chichati			
	23	Motha					
Chikhaldara	Wastapur	East Chandrabhaga	24	Mojhari	932	3586.67	897
			25	Kulangana Khd.			
			26	Kulangana Buj.			
		Jamali	27	Jamali (Van)			
		West Manbhang	28	Bagling			
			29	Wastapur			
			30	Ramtek			
	31	Malkapur					
Ghatang	Bihali	West Bihali	32	Domnipatha	3695	4410.65	1103
			33	Bela			
		East Bihali	34	Kohana			
			35	Bihali			
		Bhulori	36	Lawada			
			37	Ghatang			
		Salona	38	Salona			
Masondi	39	Lonajhari					
Ghatang	South Tawra	North Ghatang	40	Bhulori	779	3342.98	971
		Shirasban	41	Bhawai			
		South Tawra					

Range	Name of Grazing Unit	Beat	Sr. No.	Village	Grazing Incidence	Area of Grazing Unit Ha.	Capacity of Grazing Unit
Ghatang	North Tawra	East Tawra		Included in Unit 4	0	5055.21	1481
		West Tawra					
		North Tawra					
		South Tawra					
Jarida	Karanj	Botha	42	Botha	1011	2932.79	580
			43	Rahu			
		East Karanj					
		Karanj	44	Karanj			
Jarida	Ektai	Ektai	45	Ektai	592	1980.73	722
		Bhandum	46	Bhandum			
			47	Salita			
Jarida	Rahu	North Marita		Included in Unit 7 and 11	0	5340.51	1680
		Rahu					
		South Rahu					
		East Rahu					
Jarida	Butida	North Jarida			1525	3870.36	1613
		Butida	48	Butida			
			49	Palsaya			
			50	Dahendri			
			51	Kotmi			
			52	Churni			
			53	Korda			
			54	Bhandori			
			55	Karda			
			56	Gangarkheda			
			57	Toranwadi			
			58	Kathkumbh			
			59	Bamadehi			
			60	Bagdari			
			61	Koilari			
			62	Kanheri			
			63	Pawdongari			
			64	Doma			
			65	Kajaldoh			
			66	Bodu			
	67	Lakhewada					
		North Lakhewada					
	68	Chobita					
Jarida	Khari	South Khari	69	Biba	1736	4020.18	1323
		Khari	70	Khari			
		Tembhru	71	Tembhru			
			72	Dilda			
		Piplaya	73	Piplaya			

Range	Name of Grazing Unit	Beat	Sr. No.	Village		Area of Grazing Unit Ha.	Capacity of Grazing Unit
Anjangaon	Tembhrusonda	Khaongda	74	Khaongda	2773	6449.93	3477
		Girguti	75	Girguti			
			76	Jambhli			
		Ambapati	77	Ambapati			
			78	Tembhrusonda			
		Tembhrusonda	79	Satiruipatha			
			80	Choryamal			
			81	Dharamdoh			
			82	Chandpur			
			83	Telkhar			
			84	Gangadhari			
			85	Borala			
			86	Sonapur			
			87	Gorgath			
			88	Aaki			
			89	Bahadurpur			
			90	Chinchkheda			
	91	Samwarkheda					
	92	Gaurkheda Buj.					
	93	Manjarkapadi					
	94	Nagapur					
	95	Wadapati					
Anjangaon	Dahegaon	Rati	96	Kakadari	675	4825.78	2853
			97	Pipadari			
		Khirpani	98	Khirpani			
			99	Garajdari			
	Sawarpani	100	Sawarpani				
Anjangaon	Khairkund	Pandharakhadak			113	2907.25	1211
		East Khairkund					
		West Khairkund					
			101	Pandharakhadak			
<b>Total</b>					<b>15330.00</b>	<b>56087.60</b>	<b>19752</b>

**Caution – The area available for Grazing may vary each year depending upon regeneration activities and coupe working activities. The DCF must ensure to work out the net are available for grazing every year.**



**Appendix No. XXXI**

**Estimated Annual Expenditure (Details) for the working plan Implementation in the East Melghat Division**

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/unit	Annual (lakh Rs.)	Y E A R S										Average (Lakh Rs.)		
							Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10			
<b>Selection cum Improvement</b>																			
1	Demarcation and marking	1006	Ha.	4.5	315	1.58	3.16	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
2	Coupe working																		
	Timber harvesting	393.85	cu.m	9.5	665	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
	Firewood extraction	1571	cu.m		250	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
	Natural Regeneration	503	Ha.	10	725	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64	3.64
<b>Nursing of naturally occurring seedlings and coppice management etc., in under stocked patches</b>																			
	Soil and Moisture conservation Works	1006	Ha.	0.92	66.7	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
	Cut back Operations	1006	Ha.	6	435	4.37	0	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37	4.37
	<b>Total</b>			<b>30.92</b>	<b>2456.70</b>	<b>16.78</b>	<b>14.01</b>	<b>16.80</b>	<b>16.80</b>	<b>16.80</b>	<b>16.80</b>	<b>16.80</b>	<b>16.80</b>	<b>16.80</b>	<b>16.80</b>	<b>16.80</b>	<b>15.22</b>		
	Cleaning	1006	Ha.	8	562	5.65	0	0	0	0	0	5.65	5.65	5.65	5.65	5.65	5.65	5.65	2.83
	Fire Protection	1006	Ha.	1	72.5	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
	Extension Works	Meetings	-	-	-	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	<b>Total</b>			<b>39.92</b>	<b>3091.20</b>	<b>23.26</b>	<b>14.84</b>	<b>17.63</b>	<b>17.63</b>	<b>17.63</b>	<b>17.63</b>	<b>23.28</b>	<b>23.28</b>	<b>23.28</b>	<b>23.28</b>	<b>23.28</b>	<b>21.70</b>		<b>20.03</b>

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/ Unit	Annual (lakh Rs.)	Y E A R S										Average(Lakh Rs.)		
							Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10			
<b>Teak Plantation working Circle</b>																			
1	Demarcation and marking	272.009	Ha.	4.5	345	0.94	1.88	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
2	Coupe working																		
	Timber harvesting	7281	cu.m.	9.5	855	62.25	62.25	62.25	62.25	62.25	62.25	62.25	62.25	62.25	62.25	62.25	62.25	62.25	62.25
	Firewood extraction	110	cu.m.	3.5	372.5	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
	Natural Regeneration	110	Ha.	10	725	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/ Unit	Annual (lakh Rs.)	Y E A R S										Average(Lakh Rs.)	
							Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10		
<b>Teak Plantation working Circle</b>																		
<b>Nursing of naturally occurring seedlings and coppice management etc., in under stocked patches</b>																		
	Soil and Moisture conservation Works	272.009	Ha.	0.92	66.9	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	
	Cut back Operations	272.009	Ha	6	435	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	
	Plantation (Teak)																	
	PPO/PYO (Pre planting works)	110	Ha	60	4835	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	
	FYO(First Year operations)	110	Ha.	95.1	8361	9.2	0	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	
	SYO(Second Year Operations)	110	Ha.	40.9	3076	33.84	0	0	33.84	33.84	33.84	33.84	33.84	33.84	33.84	33.84	33.84	
	TYO(Third Year Operations)	110	Ha.	20.7	1542	1.7	0	0	0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
	4th YO (Fourth Year Operations)	110	Ha.	15.15	1129	1.25	0	0	0	0	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
	<b>Total</b>			<b>266.3</b>	<b>21742</b>	<b>117.1</b>	<b>72.04</b>	<b>80.3</b>	<b>114.1</b>	<b>115.8</b>	<b>117.1</b>	<b>117.1</b>	<b>117.1</b>	<b>117.1</b>	<b>117.1</b>	<b>116.2</b>	<b>108.4</b>	
	Cleaning	272.009	Ha.	8	562	1.53	0	0	0	0	1.53	1.53	1.53	1.53	1.53	1.53	0.76	
	Fire Protection	272.009	Ha.	1	72.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
	Extension Works	Meetings				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
	<b>Total</b>			<b>275.3</b>	<b>22377</b>	<b>118.8</b>	<b>72.24</b>	<b>80.5</b>	<b>114.3</b>	<b>116</b>	<b>117.3</b>	<b>118.8</b>	<b>118.8</b>	<b>118.8</b>	<b>118.8</b>	<b>117.9</b>	<b>108.50</b>	

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/ Unit	Annual (lakh Rs.)	Y E A R S										Average (Lakh Rs.)	
							Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10		
<b>Improvement W.C.</b>																		
1	Demarcation and marking	239.788	Ha.	4.5	345	0.83	1.66	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
2	Coupe working																	
	Timber harvesting	44.36	Cu.m.	9.5	855	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
	Firewood extraction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Natural Regeneration	119.894	Ha.	10	725	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
<b>Nursing of naturally occurring seedlings and coppice management etc., in understocked patches</b>																		
	Soil and Moisture conservation Works	239.788	Ha.	0.92	66.9	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
	Cut back Operations	239.788	Ha.	6	435	1.05	0	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	0.95
	Plantation (Teak)																	
	PPO/PYO (Pre planting works)	25	Ha.	60	4835	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
	FYO(First Year operations)	25	Ha.	95.1	8361	2.09	0	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	2.09	1.89
	SYO(Second Year Operations)	25	Ha.	40.9	3076	0.77	0	0	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.62

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/ Unit	Annual (lakh Rs.)	Y E A R S										Average (Lakh Rs.)
							Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
	<b>Afforestation s</b>																
	TYO(Third Year Operations)	25	Ha.	20.7	1542	0.39	0	0	0	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.27
	4th YO (Fourth Year Operations)	25	Ha.	15.15	1129	0.28	0	0	0	0	0.28	0.28	0.28	0.28		0.28	0.17
	<b>Total</b>			<b>262.8</b>	<b>21370</b>	<b>7.26</b>	<b>4.28</b>	<b>6.59</b>	<b>7.36</b>	<b>7.75</b>	<b>8.03</b>	<b>8.03</b>	<b>8.03</b>	<b>8.03</b>	<b>7.75</b>	<b>7.2</b>	<b>7.35</b>
	Cleaning	239.788	Ha.	8	562	1.35	0	0	0	0	1.35	1.35	1.35	1.35	1.35	1.35	0.68
	Fire Protection	239.788	Ha.	1	72.5	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	Extension Works	Meetings				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	<b>Total</b>			<b>271.8</b>	<b>22004</b>	<b>8.78</b>	<b>4.45</b>	<b>6.76</b>	<b>7.53</b>	<b>7.92</b>	<b>8.2</b>	<b>9.55</b>	<b>9.55</b>	<b>9.55</b>	<b>9.27</b>	<b>8.72</b>	<b>8.30</b>
1	Demarcation and marking	391.777	Ha.	1.5	135	0.53	1.06	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53		0.53
2	Coupe working																
	Timber harvesting	14.43	cu.m	9.5	855	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	Firewood extraction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Natural Regeneration	39	Ha.	10	725	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/ Unit	Annual (lakh Rs.)	Y E A R S										Average (Lakh Rs.)
							Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10	
<b>Nursing of naturally occurring seedlings and coppice management etc., in under stocked patches</b>																	
	Soil and Moisture conservation Works	391.777	Ha.	0.92	66.9	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
	Cut back Operations	391.777	Ha.	6	435	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Plantation (Teak)																
	Fencing including live hedge	200	Ha.	43	3465	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93	6.93
	Planting and Sowing on fencing	200	Ha.	2	180	0.36	0	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
	PPO/PYO (Pre planting works)	200	Ha.	15	1208	2.42	0	0	0	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42
	FYO(First Year operations)	200	Ha.	95.1	8361	1.67	0	0	0	0	1.67	1.67	1.67	1.67	1.67	1.67	1.67
	SYO(Second Year Operations)	200	Ha.	40.9	3076	6.15	0	0	0	0	0	6.15	6.15	6.15	6.15	6.15	6.15
	TYO(Third Year Operations)	200	Ha.	20.7	1542	3.08	0	0	0	0	0	0	3.08	3.08	3.08	3.08	3.08
	4th YO (Fourth Year Operations)	200	Ha.	15.2	1129	2.26	0	0	0	0	0	0	0	2.26	2.26	2.26	2.26
	<b>Total</b>			<b>259.8</b>	<b>21178</b>	<b>25.76</b>	<b>10.35</b>	<b>10.18</b>	<b>10.18</b>	<b>12.6</b>	<b>14.27</b>	<b>20.42</b>	<b>23.5</b>	<b>25.76</b>	<b>25.76</b>	<b>25.23</b>	<b>17.85</b>

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/ Unit	Annual (lakh Rs.)	Y E A R S										Average (Lakh Rs.)
							Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10	
	<b>Protection W. C.</b>						Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10	
	Cleaning	391.777	Ha.	8	580	2.27	0	0	0	0	0	0	0	0	2.27	2.27	0.46
	Fire Protection	391.777	Ha.	1	72.5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
	Extension Works	Meetings				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	<b>Total</b>			<b>268.8</b>	<b>21830</b>	<b>28.31</b>	<b>10.63</b>	<b>10.46</b>	<b>10.46</b>	<b>12.88</b>	<b>14.55</b>	<b>20.7</b>	<b>23.78</b>	<b>26.04</b>	<b>28.31</b>	<b>27.78</b>	<b>18.69</b>
1	Demarcation and marking	894.682	Ha.	1.5	105	0.94	1.88	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
2	Coupe working																
	Timber harvesting	32.93	cu.m.	9.5	855	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
	Firewood extraction																
	Natural Regeneration	89	Ha.	10	725	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
	<b>Nursing of naturally occurring seedlings and coppice management etc., in understocked patches</b>																
	Soil and Moisture conservation Works	894.682	Ha.	0.92	66.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	Cut back Operations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Plantation (Teak)																
	Fencing and live hedge work	175	Ha.	43	3465	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06
	Live hedge planting and sowing	175	Ha.	2	180	0.32	0	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32

Sr. No.	Particulars of work	Quantum of Work	Unit	Man days/unit	Rate/ Unit	Annual (lakh Rs.)	Y E A R S										Average (Lakh Rs.)
							Year1	Year2	Year3	Year4	Year5	Year6	Year7	Year8	Year9	Year10	
	PPO/PYO (Pre planting works)	175	Ha.	60	4835	8.46	0	0	0	8.46	8.46	8.46	8.46	8.46	8.46	8.46	5.93
	FYO(First Year operations)	175	Ha.	95.1	8361	14.63	0	0	0	0	14.63	14.63	14.63	14.63	14.63	14.63	8.78
	SYO(Second Year Operations)	175	Ha.	40.9	3076	5.38	0	0	0	0	0	5.38	5.38	5.38	5.38	5.38	2.68
	TYO(Third Year Operations)	175	Ha.	20.7	1542	2.7	0	0	0	0	0	0	2.7	2.7	2.7	2.7	1.08
	4th YO (Fourth Year Operations)	175	Ha.	15.15	1129	1.98	0	0	0	0	0	0	1.98	1.98	1.98	1.98	0.8
	<b>Total</b>			<b>298.8</b>	<b>24340</b>	<b>42</b>	<b>9.47</b>	<b>8.85</b>	<b>8.85</b>	<b>17.31</b>	<b>31.94</b>	<b>37.32</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>41.06</b>	<b>28.12</b>
	Cleaning	894.682	Ha.	8	560	5.01	0	0	0	0	0	0	0	0	5.01	5.01	1.002
	Fire Protection	894.682	Ha.	1	70	0.63	0	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
	Extension Works	Meetings				0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	<b>Total</b>			<b>307.8</b>	<b>24970</b>	<b>47.64</b>	<b>9.47</b>	<b>9.48</b>	<b>9.48</b>	<b>17.94</b>	<b>32.57</b>	<b>37.95</b>	<b>42.63</b>	<b>42.63</b>	<b>47.64</b>	<b>46.7</b>	<b>29.85</b>

**J.F.M.W.C.**

<b>Activities of FDA in 25 Villages</b>	<b>Aied N.R.,Bamboo planting, Entry point activities, S&amp; M Works</b>	
	Micro Plan Preparation Extension activities and Afforestation Works	<b>1160.6</b>

**NWPF (OL) W.C.**

1	Training for extraction, Grading,value addition, processing and Extension activities	1
2	Seeding of Lac, hormone injection for higher yields	1

**Wild life (OL) WC**

1	Construction of tank -1	5
2	Desilting of water holes -10	0.5
3	Salt lick laying and meadow development	1
4	Awareness programme	0.5
5	Estimation of population	0.5
6	Rewards for cattle education	0.5
7	Tranquilising equipment	1
8	Ph testing, labour for water hole monitoring etc.	0.5
9	<b>Total</b>	<b>9.5</b>

## Appendix No. XXXII

### List Of Forest Roads

Sr. No.	Range	Name of Road	Length Km.	Type
1	2	3	4	5
1	Chikhaldhara	Division Office Road	0.50	Coal Tar
		Rest House Road	0.50	Coal Tar
		Panchbol Point Road	1.50	Tar
		Bhimbkund Point Road	1.50	Tar
		Amzari Road	1.00	Metal
		Birtalao Nursery Road	0.50	Metal
		Maldeo Point Road	1.50	Metal
		Long Point Road	1.50	Metal
		Chilati Road	3.00	<i>Murum</i>
		Bhilkheda Road	1.00	<i>Murum</i>
		Baglinga Mozari Road	3.00	<i>Murum</i>
		Chandrabhaga Gavilgad	3.00	<i>Murum</i>
		Vairat Road	1.50	Tar
		Chikhaldhara to Semadoh	6.00	Tar
2	Anjangaon	Bhilkheda to Pipadari	6.40	<i>Murum</i>
		Dahigaon to Khirpani	8.00	<i>Murum</i>
3	Ghatang	Makhala to Chunkhadi	2.40	Metal
		Bhawai Approach Road	1.00	Metal
		Bhawai to Pandadeo	22.00	Metal
		Salona to Masondi	2.00	Metal
		Bhawai to Kalapata	6.00	Metal
4	Jarida	Jarida to Rahu	9.00	Tar
		Biba to Bodu	8.00	Metal
		Biba Joint Khari	4.00	Metal
		Rahu to Hilda	1.50	Metal
		Khari to Hilda	3.00	Metal
		Tembru to Piplia	2.50	Metal
		Hilda to Tingria	1.75	Metal
		Rahu to Marita	6.50	Metal
		Karanj to Bordha	5.00	Metal
		Karanj to Rahu	8.00	Metal
		Bodhra to Dolardeo	4.00	Metal
		Ektai to Bhandum	7.50	Metal
		Rahu to Tingria	3.00	Metal
		Sumita to Salita	0.75	Metal



**Appendix No. XXXIII**  
**Survey And Demarcation Programme Of Reserved Forest, Protection**  
**Forest, Zudpi And Unclassed Forests.**  
**Boundary Maintenance Programme(Length in K.m.)**

Year	Ghatang		Jarida		Anjangaon		Chikhaldara		Total Length
	Comptt No.	Length	Comptt No.	Length	Comptt No.	Length	Comptt No.	Length	
1 <sup>st</sup>	1 to 3, 9, 64 to 67	26.71	389 to 394, 432, 433, 435 to 450	43.71	949 to 955, 1041, 1050, 1051	16.10	8,11,13, 20 to 22, 48 to 49	12.67	<b>99.19</b>
2 <sup>nd</sup>	10, 56 to 63, 68 to 70	27.52	410 to 412, 421 to 423, 425 to 431, 434, 451 to 456	41.71	1052 to 1056 1058	15.23	25, 33, 38 to 40, 43 to 47, 50	8.87	<b>93.33</b>
3 <sup>rd</sup>	51 to 55, 71 to 75	24.22	401, 404 to 409, 413 to 417, 424, 395 to 397, 365, 337 to 339, 354 to 356, 340 to 345,	43.30	1057, 1059 to 1060 1062, 1067 to 1070	16.34	30 to 32, Ex-Jahangir, 33,34, 790 to 793	12.39	<b>96.25</b>
4 <sup>th</sup>	77, 79 to 83, 85 to 90, 198, 199,	31.88	346 to 353, 357 to 364, 366 to 368, 375 to 376	58.36	1063 to 1066 'C' Class Chinchona 5 to 8, 1047 to 1049 1061	15.34	4 to 6, 19, 23 to 24, 26 to 29	16.95	<b>122.53</b>
5 <sup>th</sup>	200 to 204, 206 to 209,	29.12	369 to 374, 377 to 388	40.22	1033 to 1046	15.13	7, 12, 14 to 18	12.74	<b>97.21</b>
	<b>Total :</b>	<b>139.45</b>		<b>227.30</b>		<b>78.14</b>		<b>63.62</b>	<b>508.51</b>

**Villagewise Five Year Boundary Maintenance Program(Length in K.m.)**

Year	Ghatang		Jarida		Anjangaon		Chikhaldara	
1 <sup>st</sup>	<i>Domaniplata</i>	6.62	Ghana	10.61	<i>Khongara</i>	4.12	Bori	15.00
	<i>Bhulori</i>	8.81	Tembru	3.89			<i>Kamapur</i>	15.15
	<i>Salona</i>	2.50	Khadimal	28.93			<i>Manbhang</i>	19.50
	<i>Bhawai</i>	8.87	Salita	8.68			<i>Baglinga</i>	6.95
			Karanj	2.98				
	<b>Total</b>	<b>26.80</b>		<b>55.09</b>		<b>4.12</b>		<b>56.60</b>
2 <sup>nd</sup>	<i>Kohana</i>	12.37	<i>Butida</i>	13.20	<i>Khirpani</i>	6.55	<i>Chichati</i>	26.50
	<i>Lawada</i>	9.67	<i>Khandukhera</i>	7.52			<i>Madaki</i>	19.50
	<i>Ghatang</i>	5.48	<i>Khari</i>	20.99			<i>Shahapur</i>	11.20
			<i>Bordha</i>	9.68				
	<b>Total</b>	<b>27.52</b>		<b>51.39</b>		<b>6.55</b>		<b>57.20</b>
3 <sup>rd</sup>	<i>Lonazari</i>	21.52	<i>Biba</i>	15.12	<i>Kakadari</i>	7.30	<i>Aladoh</i>	6.35
	<i>Bhandri</i>	2.27	<i>Awagarh</i>	23.43			<i>Mozari</i>	6.80
			<i>Kamida</i>	4.75			<i>Jaitadehi</i>	7.40
			<i>Ektai</i>	15.18			<i>Churni</i>	9.50
	<b>Total</b>	<b>23.79</b>		<b>58.84</b>		<b>7.30</b>		<b>30.05</b>
4 <sup>th</sup>	<i>Bela</i>	11.07	<i>Jarida</i>	11.56	<i>Pipadari</i>	7.36	<i>Motha</i>	32.10
	<i>Masondi</i>	11.17	<i>Lakhewada</i>	7.59			<i>Khatkali</i>	10.75
	<i>Bihali</i>	9.64	<i>Marita</i>	14.02			<i>Amzari</i>	14.65
			<i>Hirda</i>	5.19			<i>Tetu</i>	6.10
	<b>Total</b>	<b>31.88</b>		<b>38.36</b>		<b>7.36</b>		<b>63.60</b>
5 <sup>th</sup>	<i>Makhala</i>	29.12	<i>Barugohan</i>	22.77	<i>Phandrakhadak</i>	6.11	<i>Jamunnala</i>	9.55
			<i>Pipliya</i>	4.02			<i>Jambali</i>	20.70
			<i>Chobita</i>	6.24			<i>Lawada</i>	13.25
			<i>Bodu</i>	4.34			<i>Adnadi</i>	7.65
			<i>Mehariam</i>	2.85				
			<i>Rahu</i>	6.63				
			<i>Bhandum</i>	0.94				
	<b>Total</b>	<b>29.12</b>		<b>47.79</b>		<b>6.11</b>		<b>51.15</b>

**Note : Area of all survey Nos. in possession of Forest Deptt. (Except that of River,Nala) included in App No. in the Villages.**

**Appendix – XXXIV**  
[vide para ]

**Forms For Teak Plantation Working Circle**

**FORM 1A**

**Form Of Field Book For Recording Girth Measurements And  
The Basal Area In Sample Plots.**

1. Name of Range.....
2. Year of plantation.....
3. Compartment No.....
4. Section No.....
5. Teak site Quality.....
6. Sample Plot No.....
7. Shape, size and area of the sample plot.....
8. Average basal Area as measured in the plot.....sq. mts. per hectare.
9. Name & designation of enumerator.....
10. Date of enumeration .....

S.N.	Species	Girth at breast height (OB)	S.N.	Species	Girth at breast height (OB)
1	2	3	1	2	3

**FORM 1B**

( Vide para )

Year of plantation.....

..... Thinning                      Working year when due..... Year of actual thinning.....

**Statement showing details of cleaning operation.**

Sr.No.	Comptt. No.	Section No.	Area of the section (Ha.)	Area cleaned (Ha).	Period of cleaning	Expnd. Incurred	Quantity of material obtained	Revenue received
1	2	3	4	5	6	7	8	9

**Form No. 2**  
[Vide Para No. ]

**Year Of Plantation**  
**Statement Showing Section-Wise Distribution Of**  
**The Plantation On To Various Quality Classes.**

S.N.	Comp No.	Section No.	Area of the Section (in ha)	Area under teak site quality.							Occurrence of Bamboo		
				I ha	I/II ha	II ha	II/III ha	III Ha	III/IV ha	IV Ha	Natural ha	Planted ha	Absent ha

**Note:** while recording area under bamboo in col. Nos. 12 & 13 mention about stocking of bamboo should also be made. That is to say whether it is fully stocked or under stocked.



**Appendix – XXXV**

**Statement Showing Range, Round and Beats With Areas  
East Melghat Forest Division, Chikhaldara.**

<b>Name of Range</b>	<b>Name of Round</b>	<b>Name of Beat</b>	<b>Comptt. No.</b>	<b>Area in Ha.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Chikhaldara	Chikhaldara	1. Amzari	25	162.16
			46	131.38
			47	164.02
			28	366.78
<b>Total</b>				<b>824.34</b>
		2.Chikhaldara	38	89.34
			39	327.00
			40	304.30
<b>Total</b>				<b>720.64</b>
		3.Motha	13	161.97
			20	207.76
			21	6.87
			22	149.10
			48	142.16
			50	244.90
<b>Total</b>				<b>912.76</b>
		4. Jamunnala	8	400.60
			11	243.89
			49	354.45
<b>Total</b>				<b>998.94</b>
		5. Khatkali	43	173.01
			44	220.57
			45	343.23
<b>Total</b>				<b>736.81</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
	Wastapur	6. Chandrabhaga	30	352.90
			29	285.30
Total				<b>638.20</b>
		7. Mozari	31	275.89
			32	324.05
<b>Total</b>				<b>599.94</b>
		8.Pipari Pati	33	378.00
			790	264.70
Total				<b>642.70</b>
		9. Jamli	791	369.10
			792	240.80
			793	214.90
<b>Total</b>				<b>824.80</b>
		10. Gawilgadh	26	379.89
			27	319.89
			S.No.33, 34 Ex.Jahagir	188.00
<b>Total</b>				<b>887.78</b>
	Dhamangaon	11. Chichati	18	291.40
			19	229.44
			23	313.99
			24	259.06
			Bhilkheda S.N.20	4.47
			Bhilkheda S.N.20	9.46
<b>Total</b>				<b>1107.82</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		12. Adanadi	4	132.55
			5	64.83
			6	321.70
			7	183.09
			17	262.29
<b>Total</b>				<b>964.46</b>
		13. Madki	12	200.26
			14	295.00
			15	314.00
			16	292.24
<b>Total</b>				<b>1101.50</b>
<b>Chikhaldara Range Total</b>				<b>10960.69</b>
Ghatang	Bihali	14. Bihali	1	160.18
			2	159.99
			3	172.08
			9	321.22
			64	129.71
			65	197.05
<b>Total</b>				<b>1140.23</b>
		15. Bhulori	63	184.53
			66	192.64
			67	200.32
			68	147.63
			69	174.99
			70	92.99
			71	130.36
<b>Total</b>				<b>1123.46</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		16. Salona	10	142.99
			56	164.04
			57	111.20
			58	170.30
			59	108.05
			60	156.21
			61	121.40
			62	114.52
<b>Total</b>				<b>1088.71</b>
	Ghatang	17. Masondi	51	254.06
			52	161.65
			53	192.63
			54	291.73
<b>Total</b>				<b>900.07</b>
		18. Ghatang	72	226.86
			73	228.84
			74	206.79
			75	282.06
<b>Total</b>				<b>944.55</b>
		19. Sirasban	79	218.93
			80	228.64
			86	186.15
			55	288.54
<b>Total</b>				<b>922.26</b>
		20. Lonazari	87	188.99
			88	212.87
			89	210.43
			90	193.84
<b>Total</b>				<b>806.13</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
	Taora	21. Chitamdev	197	227.83
			201	279.23
			202	233.50
<b>Total</b>				<b>740.56</b>
		22. Makhala	203	213.27
			205	219.74
			207	255.76
			208	198.70
<b>Total</b>				<b>887.47</b>
		23. Bodhana	204	322.53
			298	227.03
			299	276.80
<b>Total</b>				<b>826.36</b>
	Bhawai	24. Bhawai	76	237.95
			77	242.40
			78	210.84
			82	192.51
			83	207.44
<b>Total</b>				<b>1091.14</b>
		25. Jawaharkund	84	147.36
			194	239.57
			195	163.49
			196	198.70
<b>Total</b>				<b>749.12</b>
		26. Shakkarmhu	81	212.46
			85	197.48
			91	267.49
<b>Total</b>				<b>677.43</b>
		27. Antarmaal	198	330.22
			199	316.06
			200	265.07
<b>Total</b>				<b>911.35</b>
<b>Ghatang Range Total</b>				<b>12808.84</b>

<b>Name of Range</b>	<b>Name of Round</b>	<b>Name of Beat</b>	<b>Comptt. No.</b>	<b>Area in Ha.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Jarida	Karanj	28. Bordha	389	155.89
			390	112.33
			391	131.70
			392	177.65
			393	180.11
<b>Total</b>				<b>757.68</b>
		29. Bibalkheda	433	160.08
			435	166.32
			436	169.15
			438	163.49
			439	192.44
			440	154.87
<b>Total</b>				<b>1006.35</b>
		30. Karanj	432	159.34
			437	124.24
			441	194.65
			442	137.59
			443	180.88
<b>Total</b>				<b>796.70</b>
		31. Khandu	429	226.21
			430	173.20
			431	195.54
			434	186.13
<b>Total</b>				<b>781.08</b>
	Ektai	32. Choladev	444	173.61
			445	247.53
			446	138.09
<b>Total</b>				<b>559.23</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		33. Ekatai	447	179.68
			448	114.02
			449	188.27
<b>Total</b>				<b>481.97</b>
		34. Bhandum	454	160.03
			455	103.60
			456	213.67
<b>Total</b>				<b>477.30</b>
		35. Salita	450	167.58
			451	146.83
			452	149.14
			453	172.29
<b>Total</b>				<b>635.84</b>
	Rahu	36. Marita	422	123.01
			423	168.34
			424	207.19
			425	256.96
<b>Total</b>				<b>755.50</b>
		37. Ratanpur	421	205.97
			426	204.76
			427	187.36
			428	193.03
<b>Total</b>				<b>791.12</b>
		38. Ekamkheda	404	161.05
			405	149.32
			415	151.34
			416	182.90
			417	176.44
<b>Total</b>				<b>821.05</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		39. Rahu	409	163.49
			410	154.99
			411	152.97
			412	183.32
<b>Total</b>				<b>654.77</b>
		40. Pachamadev	407	176.03
			408	186.55
			413	190.20
			414	152.96
<b>Total</b>				<b>705.74</b>
		41. Tingarya	395	193.70
			396	171.17
			397	147.30
			401	156.81
			406	162.27
<b>Total</b>				<b>831.25</b>
	Butida	42. Barugavan	337	74.72
			339	107.85
			354	126.26
			355	108.05
			356	144.07
			365	130.71
<b>Total</b>				<b>691.66</b>
		43. Butida	340	110.75
			341	180.28
			342	166.60
			343	132.74
			345	171.58
<b>Total</b>				<b>761.95</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		44. Bodu	344	161.40
			346	102.5
			347	192.57
			348	174.01
			349	134.35
		Bamadehi S.N.244		16.60
<b>Total</b>				<b>781.43</b>
		45. Lakhewada	351	209.05
			352	178.06
			353	156.21
<b>Total</b>				<b>543.32</b>
		46. Khurshi	350	126.54
			357	136.78
			359	214.21
<b>Total</b>				<b>477.53</b>
		47. Chobita	358	167.16
			360	134.30
			361	139.85
			363	116.34
			364	196.67
<b>Total</b>				<b>754.32</b>
	Khari	48. Biba	362	175.97
			366	142.29
			367	183.65
			368	187.37
			375	160.25
			376	173.20
<b>Total</b>				<b>1022.73</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		49. Khari	372	152.20
			373	103.21
			374	158.42
			377	161.87
			378	218.07
			379	101.84
			384	123.08
<b>Total</b>				<b>1018.69</b>
		50. Tembru	380	220.54
			381	157.95
			382	186.80
			388	186.20
<b>Total</b>				<b>751.49</b>
		51. Hilda	369	169.56
			370	206.65
			371	138.70
			394	198.45
<b>Total</b>				<b>713.36</b>
		52. Pipliya	383	131.58
			385	138.63
			386	154.79
			387	147.51
<b>Total</b>				<b>572.51</b>
<b>Jarida Range Total</b>				<b>18144.57</b>
Anjangaon	Tembrusonda	53. Ambapati	1052	271.50
			1053	157.00
			1054	311.20
			Kundi S.N.1	205.66
			Sakhara Chikhalpati	52.81
<b>Total</b>				<b>998.17</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		54. Tembrusonda	1055	203.10
			1056	201.90
			1058	270.38
			Satti/Ruipatar 35	76.68
			Satti/Ruipatar 74	0.10
<b>Total</b>				<b>752.16</b>
		55. Chauramal	Chauramal	532.63
			Satti/Ruipata	220.20
			Dharmdoh	185.00
<b>Total</b>				<b>937.83</b>
	Khongada	56. Khongda	949	209.20
			950	141.42
			951	230.16
			952	257.40
<b>Total</b>				<b>838.18</b>
		57. Rajdev baba	953	266.30
			954	206.40
			955	240.80
<b>Total</b>				<b>713.50</b>
		58. Girguti	1041	282.00
			1050	294.20
			1051	259.00
			Jamli-16	317.33
<b>Total</b>				<b>1152.53</b>
		59. Nagzira	Girgoti -16	660.06
			Ambapati-7	306.29
			TekdaNagzira Sy.No.1,11,40,42,43	91.21
<b>Total</b>				<b>1057.56</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
	Dhahigaon	60. Satti	1057	316.04
			1059	170.25
<b>Total</b>				<b>486.29</b>
		61.Khirpani	1062	212.88
			1067	282.31
<b>Total</b>				<b>495.19</b>
		62. Garajdari	1068	322.90
			1070	314.40
<b>Total</b>				<b>637.30</b>
		<b>63. Sawarpani</b>	1065	200.67
			1066	283.70
<b>Total</b>				<b>484.37</b>
		64. Sitanani	1047	270.30
			1063	172.73
<b>Total</b>				<b>443.03</b>
		65. Chandsuraj	1048	282.90
			1049	228.60
<b>Total</b>				<b>511.50</b>
		66. Kakadari	1060	151.80
			1061	245.71
			1069	161.95
<b>Total</b>				<b>559.46</b>
	Khirkund		C Class 5,6,7,8	958.30
<b>Total</b>				<b>958.30</b>
		68. Pandhara khadak	1034	218.10
			1035	210.62
			1036	189.40
<b>Total</b>				<b>618.12</b>

Name of Range	Name of Round	Name of Beat	Comptt. No.	Area in Ha.
1	2	3	4	5
		69. Dhoraba	1037	158.60
			1038	184.90
			1039	245.60
			1040	211.60
<b>Total</b>				<b>800.70</b>
		70. Shivanpani	1042	243.60
			1044	226.20
<b>Total</b>				<b>469.80</b>
		71. Ballakheda	1033	372.32
			1043	252.91
<b>Total</b>				<b>625.23</b>
		72. Khirkund	1045	223.40
			1046	170.00
			1064	250.34
<b>Total</b>				<b>643.74</b>
<b>Anjangaon Range Total</b>				<b>14182.96</b>
<b>Grand Total OF East Melghat Forest Division, Chikhaldara</b>				<b>56097.06</b>



### Abstract

(Area in Ha.)

Sr. No.	Name Of Range	Nos. of Round	Nos. of Beat	Nos. of Compartments	Reserved Forest		Protected Forest	Total Area
					"A" Class	"C" Class		
1	Chikhaldara	3	13	43	10951.210	0	9.48	<b>10960.69</b>
2	Ghatang	4	14	62	12808.84	0	0	<b>12808.84</b>
3	Jarida	4	25	111	18127.97	0	16.60	<b>18144.57</b>
4	Anjangaon	5	20	45	13224.66	958.30	0	<b>14182.96</b>
	<b>Total Area</b>	<b>16</b>	<b>72</b>	<b>261</b>	<b>55112.68</b>	<b>958.30</b>	<b>26.08</b>	<b>56097.06</b>



**Appendix No. XXXVI**

**Compartment History Forms**

**Compartment History – Form No. 1  
( Description of the Compartment )**

Division

Name of the Block

Compartment No.

Date :

Forest Map Sheet No.

Range

Stock Mapper

Scale :

Camp

Area in }  
Hectares }

-----  
1. Location

2. Boundaries

North :

East :

South :

West :

3. Permanent features :

4. Topographical features – (Give altitudinal variations, aspect and slop)

5. Geology and rock :

6. Soil – ( Give types and distribution origin, Color, texture eomposition, depth, humus, drainage etc.)

7. The Forest –

(i) General description – General description of types of forest and local sub-type, qualites, density, age, principal associates, reproduction of principal species etc. to be given

(ii) Floristics – (To be given separately for each sub-type distinguished under I-Top Canopy, II-Second Storey. Iia- Bamboo,III-Shrubs IVa-Herbs. IVb-Grasses, V-Climbers, Epi-Epiphytes, par-Parasites), Occurrence of principal species to be indicated by letters (Va)-very abundant, (a)-abundant, (f) frequent, (c)- common, (o)-occasional, ® rate, (la)-locally abundant, (lc). Locally common.

(iii) Regeneration—

- (a) Natural – to be described under : (I) by coppice from the felled trees, (ii) by natural seedlings of seedling coppice. (It should be clarified whether reproduction is adequate to restock the areas. Such portions should be indicated as far as possible)
- (b) Artificial Regeneration— (Details to be given under item II).
8. Grazing—(Mention availability of grazing incidence.)
9. Injuries—(Extent of illicit cutting, encroachments and illicit grazing, damage due to wind and cyclones, fires draught, frost, insects  
And fungus and spread of Laranthus, Lantana or Karvi.)
10. Soil Erosion – Give types and extent.)
11. Past History—(Among other items information should be recorded about years of exploitation as also the type of exploitation, standard Left, selection size trees reserved against felling, full details such as year of planting, method, area, species planted and results about Artificial regeneration should also be given.)
12. Any other information—(Among other matters information about Experimental Plots (E.P), Sample Plot (S.P), Preservation Plot(P.P), Linear Increment Plot (L.I.P.) wild life and privileges to be given.

Proposed treatment----

Checked by ---

Designation—

**Compartment History- Form No. 2**

**( Record Of Plantation And Changes In Growing Stock )**

Compartment No.-----

Coupe No.-----

<b>Year / Date</b>	<b>Description of work on plantation and Changes in growing stock.</b>	<b>Revenue Rs.</b>	<b>Expenditure Rs.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

**Compartment History- Form No.3**

**( Register Of Operations And Outturn )**

Compartment No.-----

<b>Year / Date</b>	<b>Description</b>	<b>Revenue Rs.</b>	<b>Expenditure Rs.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

**Compartment History- Form No. 4**

**( Record Of Observations )**

Compartment No.-----

Coupe No.-----

<b>Date and Name of Officer</b>	<b>Extracts from diaries, notes and reports.</b>
<b>1.</b>	<b>2.</b>

**Compartment History – Form No. 5  
Record Of Fire**

Compartment no.-----

Coupe No.-----

Date of occurrence	Description	Cost
1	2	3 -----
	Area burnt of Coupe No. Detail of damage and its approximate value Damage to regeneration Damage to standing tree            1 Timber Cart load fuel Cart load grass Bamboos Expenditure incurred for putting out fire as far fire. Case no.----- of -----was Rs.	
	Range Forest Officer	

**The Compartment Description format CH Form-1) is as under.**

**Identification**

<b>Division-</b>	<b>Range-</b>	<b>Block-</b>	<b>Compartment-</b>

**Management details**

Working Plan Period			
Author WPO			
Working Circle			
Felling Series			
Periodic Block			

**Description**

Title of description	Explanatory notes to write the description
Area (in Hectares)	Total as also under each species or type, blank unworkable, etc.
Situation	As best as possible
Boundaries	N, S, E, W (mention boundary pillars, ridges, spurs, streams, etc.)
Altitude	In meters. In case of hilly areas give lower and upper limits.
Aspect	Main aspect and variations if any
Gradient	Precipitous, very steep, steep, moderate, gentle, etc.
Configuration	Rugged, undulating, flat, etc.
Rock	Mention main underlying rocks including alluvial deposits
Soil	Texture, depth permeability, drainage, surface compaction, humus, etc.
Growing Stock	Natural, artificial, storey-wise composition, age class quality, stocking density, regeneration of principal species, etc.
Remarks	The effect of biotic factors should be especially dealt with.

**The Compartment Enumeration format is as under:**

**General information**

Block	Compartment	Sub Compartment	Total Area (Ha)	Area enumerated	Sampling method if partial	Year of enumeration

**Result enumeration**

Species	Diameter class in cm. (Number in each class)									
	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90 & over	Total

**The Trees Marked For Felling format is as under:**

Year	Area Ha	Species	Diameter class in cm. (Number in each class)									
			10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	80 & over	Total

**The Compartment Outturn format is as under:**

Year	Area felled in hect.	Species Timber	Round timber	Sawn	Fuel wood	Miscellaneous	Remarks

**The Compartment History format is as under:**

**Block -----**

**Compartment-----**

Year	Event

Working Circle- Periodic Block-		Felling- Series- Cutting-Section		Localities prescribed Localities suggested				COUPE CONTROL FORM	
Prescripti on in brief	W.P. para	Year Due	As carried out				Excess (+) or Deficit (-)		Remarks & Sanction
			Year	Block/Comptt.	Area	Volume	Area	Volume	
1	2	3	4	5	6	7	8	9	10

**The Felling Control Form format of felling control is as under:**

Working Circle- Periodic Block-		Felling-Series- Cutting-Section		Localities prescribed Localities suggested (With Areas)				COUPE CONTROL FORM	
Block/ Comptt.	Area	Species	Diameter class	Trees marked	Unit factor	Volume marked	Trees retained	Coupe No.	Page
								% Trees retained	Rem arks
1	2	3	4	5	6	7	8	9	10



**Appendix No. XXXVII**  
**Plantation Register Forms**

**Plantation Register Form No. 1**  
**Treatment Map**

(Trace showing the areas under rabs, trenching, pitting, uralis, or any type of soil preparation depending upon the slope, drainage type and of soil etc. should be given).

**Plantation Register Form No. 2.**  
**(General Information)**

1. Name of the Plantation.
2. Year of formation.
3. Range
4. Location
5. Area in categories such as—

Division

- (i) Reserved forests—
  - (a) Already in-charge of Forest Department.
  - (b) Taken over from Revenue Department.
- (ii) Protected Forests—
  - (a) Already in-charge of Forest Department
  - (b) Taken over from Revenue Department.
- (iii) Any other type.

6. Topography, Aspect, Slope, Rock and soil. (Trial pits should be taken and soil profiles described).

7. Climate.

Rainfall  
Year

Total amount  
of Rainfall

No of Rainy  
days.

Temperature  
Year

Maximum/month

Minimum/month

### Plantation Register Form No.3

#### Trace Showing Areas/Planted With Different Species

### Plantation Register Form No.4 (Description Of Works Done And Survivals Etc.)

1. Details of material extracted in clear felling and revenue realized.

2. Pre-Plantation works carried out.:

- |  |      |                 |
|--|------|-----------------|
| (a) Rab burning --                       |      | Total area      |
| (b) <u>Trenching</u> --<br>Type          | Size | No. of trenches |
|  |      | Area covered    |
| (c) <u>Pitting</u> --<br>type            | Size | No. of pits     |
|  |      | Area covered    |
| (d) <u>Uralies</u> --<br>No. of uralies. |      | Total length    |
|  |      | Area covered.   |
| (e) Any other operations—                |      |                 |
| (i) Staking--No. of stakes.              |      |                 |
| (ii) Manuring                            |      |                 |

3. .Plantation works carried out—

- (a) Species with method of planting or sowing with spacement adopted.  
 (b) Details of seed sown, its origin and viability, seedlings or stumps planted.

Species	Quantity of <u>Seed sown</u> Dates of sowing	No. of stumps <u>Planted</u> Date of planting	No. of seedling planted <u>with dates of planting</u> Naked : Mossed : potted	Total
---------	---	--	---	-------

4. Casualties replacement Dates of replacement.

Species.	No. of seedlings/stumps	1st year 2nd year
----------	-------------------------	----------------------

5. Weedings :-  
Year

	<u>Types of weeding</u>				<u>Period of weeding</u>			
	1st		2nd		3rd			
	From	To	From	To	From	To		

First (a) Clean --	----do-----	---do----	-----do----
(b) Strip			
(c) Around the plantation			

Second

Third

Subsequent years.

6. Fertilizers used— Kinds	Quantity	Dosage given	Dates
7. Insecticides used-- Types	Quantity	Dosage	Dates
8. Fire protection— Year	Date of Fire tracing	Length	Width

**Plantation Register Form No. 5.  
( Count Of Survivals )**

-----								
Survivals								
Sr. No.	Name of Species	No. planted	year	-----		-----		Remarks
				on 31-10 No.	Percent	on 31-5 No.	Percent	
1	2	3	4	5	6	7	8	9
-----								

**Plantation Register Form No. 6**  
**Cost On 1<sup>st</sup> Year Operation (Year Of Formation)**

Sr. No.	Particulars	Total cost of the items	Cost per acre of the item	Remarks (Give date operations)
1	2	3	4	5
	1. Demarcation and marking			
	2. Clear felling (or clearance of site)			
	3. Pre-plantation works			
	4. (a) Preparation of rab			
	(b) Digging of pits			
	(c) Contour trenching			
	(d) Formation of uralies			
	(e) Any other operation (Cost of manuring)			
	(f) Burning and reburning			
	(g) Refilling of pits			
	(h) Preparation of stakes			
	(i) Aligning and staking			
	5. Collection of seed for direct sowing			
	6. Preparation of stumps of transport			
	7. Weeding—			
	I			
	II			
	III			
	8. Casualties replacement in the 1st year the year of formation.			
	9. Fire protection			
	10. Preparational nursery cost			
	11. Any other items such as fencing.			
	Total expenditure to the end of 1st year			

**Plantation Register Form No. 7**  
**( Cost Of Subsequent Operations )**

Sr. No.	Year	Brief account of Work done and dates	Total expenditure incurred	Expenditure per acre	Remarks
1	2	3	4	5	6

**Plantation Register Form No. 8  
( Receipts Realized )**

<b>Year</b>	<b>Date</b>	<b>Particulars</b>	<b>Amount realized</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

**Plantation Register Form No. 9.  
( Inspection Note )**

<b>Date</b>	<b>Inspection notes, and Instructions Issued</b>	<b>Remarks about compliance Wherever necessary</b>
<b>1</b>	<b>2</b>	<b>3</b>



**Appendix No. XXXVIII**

**Nursery Register Forms**

**Nursery Register Form No. 1  
Nursery Register (Central Particulars)**

Division --

Range --

Area --

1.Name of the Nursery –

2.Location –

3.Year of formation –

4.Locality factors –

(a) Climate

Average Rainfall

Temperature

(b) Topography.

Max. Min

(c) Soil condition and  
classification.

5..Previous vegetation –

6.Legal position of the land-

7.Water supply –

8.Scope for future expansion –

**Nursery Register Form No. 2.**

**(Initial Formation)**

Non- Recurring Item

Item	Brief description of work done	Total Expenditure Of the item.	Sanction amount	Remarks
1	2	3	4	5

**Nursery Register Form No. 3.  
Summery of Annual Results**

Year	Total Cost Incurred	<u>Total planting stock produced</u>							
		<u>Regular plantation</u>		<u>Afforestation</u>		<u>Vana Mahotsava :</u>		<u>Miscellaneous</u>	
		Name of Species	No.	Name of species	No.	Name of species	No.	Name of species	No.
1	2	3	4	5	6	7	8	9	10

<u>Disposal of the planting stock</u>												
<u>Regular Plantation</u>			<u>Afforestation</u>			<u>Vana Mohotsava</u>			<u>Miscellaneous</u>			Remarks
Spp.	No.	Where Used	Spp.	No.	Where used	Spp.	No.	Where used	Spp.	No.	Where used	
11	12	13	14	15	16	17	18	19	20	21	22	23

**Nursery Register  
Remarks of Inspecting Officers**

Date	Inspecting Notes	Remarks about compliance wherever necessary
1	2	3

**Total cost initially incurred**

Year	Item	Non Recurring expenditure in subsequent years (Rest of the columns as above)

**Nursery Register Form No. 3.**  
**Initial Formation**  
**(Recurring Items)**

(To be filled in for every year and tagged on to the register)

Year	Item	Total Expenditure for the item	Sanction amount
1	2	3	4
	(1) Renovation of beds		
	(2) Manuring		
	(3) Providing side supports		
	(4) Shading of beds		
	(5) Purchase of and collection seed and origin of seed.		
	(6) Purchase of containers.		
	(7) Purchase of other materials if any		
	(8) Sowing		
	(9) Transplanting in beds		
	(10) Sowing or transplanting in containers		
	(11) Cost of mousing of seedlings		
	(12) Wages of Mali and temporary staff		
	(13) Wages of labourers		
	(14) Cost of running pump.		
	(a) Diesel oil		
	(b) Lubricating oil		
	(c) Maintenance including repairs and parts.		
	Any other Item		
	(15) Brief description of works (Type, size, and No. Beds, method of formation etc.. of details of containers used etc.)		

**Total cost for the year**

**Nursery Register Form No. 4.**  
**( Detailed Lay-Out Of The Nursery )**

(To be shown roughly to a scale of 1" – 33' or any other suitable scale)

**Nursery Register Form No. 5 – A ( I )  
( Stock Ledger For Germination Beds )**

Species	Size of Beds and No.	Dates of sowing	Quantity of seed sown	Period of germination	Stock raised	Distribution of stock : for transplanting		Remarks
						Transplanted On bed	Transplanted in Polythene bag No.	
1	2	3	4	5	6	7a	7b	8

**Register Of Nursery Form No. 5-A- ( II )  
( Stock Ledger For Transplant Beds )**

Species	Period of Transplanting	No. of beds	No. transplanted	Spacement	Distribution	
					No. how Used.	Balance
1	2	3	4	5	6	7

**Nursery Register Form No. 5 – B  
( Stock Ledger Of Sown Beds )**

Species	Size of Bed and No.	Date of sowing	Quantity of seed sown	Period of germination	Stock raised	Distribution	Remarks
1	2	3	4	5	6	7	8

**Nursery Register Form No. 6.**  
**( Details Of Planting Stock Raised Other-Wise Than In Beds )**

Species	Type of Containers	No.	Direct sowing sowing or Transplanting	Disposal		Remarks
				No.	No. .Disposed off.	
1	2	3	4	5	6	7

**Nursery Register Form No. 7.**

**( Summary Of Annual Results )**

Year	Total cost Incurred	Total planting stock produced							
		Regular plantation		Afforestation		Van-Mahotsava		Miscellaneous	
		Name of Sp.	No.	Name of Sp.	No.	Name of Sp.	No.	Name of Sp.	No
1	2	3	3a	4	4a	5	5a	6	6a

(a) Recurring  
(b) 1/10th of total nonrecurring cost incurred in the year under report

**Disposal of the planting stock produced**

Regular plantation			Afforestation			Van-Mahotsava			Remarks
Spp.	No.	Where used	Spp.	No.	Where used	Spp.	No.	Where used	
7a	7b	7c	8a	8b	8c	9a	9b	9c	10

**Nursery Register Form No. 8.**  
**( Remarks Of Inspecting Officers )**

Date	Inspection Notes and instruction issued	Remarks about compliance with the Note
1	2	3

**Nursery Register Form No. 9  
( Revenue Realization If Any )**

<b>Year and date</b>	<b>Amount</b>	<b>Details</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>

**Nursery Register Form No. 10  
( Germination Test )**

<b>Species</b>	<b>Origin of seed</b>	<b>Seed weight</b>	<b>Result of cutting test</b>	<b>Pre treat- ments</b>	<b>No. of seed used</b>	<b>Date of sowing</b>	<b>Date of germination test</b>	<b>No. Germination</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>

## Appendix No. XXXIX

### Divisional Note Book

( Para No. )

Serial No.	Subject	Reference
1	2	3
1.	Black list of—	
	(a) Government servants	
	(b) Contractors	
2.	Statistics—	
	(a) Teak	
	(b) Simal	
	(c) Other species	
3.	Working Plans—	
	(a) General	
	(b) Silviculture	
	(i) Seed year	
	(ii) Reproduction of tree species either by seed or by advance grazing closures	
	(iii) Nursery and plantations (inspection notes of Superior officers in the nature of a periodical review).	
4.	Injuries to which the crop is liable –	
	(a) Natural phenomena i.e. frost and drought, etc.	
	(b) Insects and fungi	
	(c) Wild animals	
	(d) Erosion	
	(e) Climbers	
5.	Minor Forest Produce-	
	(i) Kulu gum	
	(ii) Tendu leaves	
	(iii) Katha, etc.	
6.	Financial results	
7.	Grazing --	
	(a) General	
	(b) Effects of closures on pasture conditions and reproduction of trees species	
8.	Fire protection	
9.	Labour supply	
10.	Experiments and tests	
11.	Forest Botany	
12.	Forest Zoology	
13.	Forest offences (mention only those of a special nature)	
14.	Water-supply	
15.	Game preservation and shooting	
16.	Protected forests	
17.	Miscellaneous	

**Appendix No. XL**

**List Of Unsurveyed Villages (At The Time Of *Bandobast*) With  
Forest Area If Notified**

<b>Sr. No.</b>	<b>Name of Unsurveyed Village</b>	<b>Area (Ha)</b>	<b>Class Wise Reserved, Protected Forest, Unclassed, Zudpi Forest Etc.</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
-	-	-Nil-	-



**Appendix No. XLI**

**List Of Surveyed And Unsurveyed Villages With Total Forest Area As Recorded In Talathi Form No. 1(A).**

<b>Sr. No.</b>	<b>Survey No., Group No., Block etc.</b>	<b>Area (Ha)</b>	<b>Class wise Reserved, Protected Forest, Unclassed, Zudpi Forest etc.</b>	<b>Rights recorded by Settlement Officer under India Forest Act.1927</b>	<b>Declaration of forest land vide Notification No./in case of land transfer No. of order issued by competent authority</b>	<b>Date of Notification column no. 6</b>	<b>Land transferred under Non-Forestry Works Area (Ha)</b>	<b>Diversion of forest land for non-forestry works vide order no.</b>	<b>Notification date of column no.9</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
1	Motha Reserve	5027.44	Reserved Forest	Not found in record	G.I.F.D. Not.No.2197-I-B,dated 13 <sup>th</sup> Oct. 1911	13 <sup>th</sup> Oct. 1911	46.84 ( Sapannadi Project)  0.27 Wind Energy Project	GOI order No.8-173/97F.C.  G.O.I.	03.04.2000.  27.05.2003.	
2	Chikhaldara Reserve	5852.34	Reserved Forest	Not found in record	G.I.F.D. Not.No.2197-I-B,dated 13 <sup>th</sup> Oct. 1911	13 <sup>th</sup> Oct. 1911	18.61 Lease of Coffee Plantations	-	16.7.1935	
3	Kohana Reserve	3786.19	Reserved Forest	Not found in record	G.I.F.D. Not.No.2197-I-B,dated 13 <sup>th</sup> Oct. 1911	13 <sup>th</sup> Oct. 1911	-	-	-	
4	Biaragarh Reserve	25940.10	Reserved Forest	Not found in record	G.I.F.D. Not.No.2197-I-B,dated 13 <sup>th</sup> Oct. 1911	13 <sup>th</sup> Oct. 1911	-	-	-	
5	Gugamal Reserve	2641.18	Reserved Forest	Not found in record	G.I.F.D. Not.No.2197-I-B,dated 13 <sup>th</sup> Oct. 1911	13 <sup>th</sup> Oct. 1911	-	-	-	

Sr. No.	Survey No., Group No., Block etc.	Area (Ha)	Class wise Reserved, Protected Forest, Unclassed, Zudpi Forest etc.	Rights recorded by Settlement Officer under India Forest Act. 1927	Declaration of forest land vide Notification No./in case of land transfer No. of order issued by competent authority	Date of Notification column no. 6	Land transferred under Non-Forestry Works Area (Ha)	Diversion of forest land for non-forestry works vide order no.	Notification date of column no.9	Remarks
1	2	3	4	5	6	7	8	9	10	11
6	Khirpani Reserve	9025.01	Reserved Forest	Not found in record	G.I.F.D. Not.No.2197-I-B,dated 13 <sup>th</sup> Oct. 1911	13 <sup>th</sup> Oct. 1911	0.90 Hectare 11 KV.Line from Garajdari to Khirpani	Letter No. of GOI 8-110/89F.B.	19.04.1989	
		2835.97	Reserved Forest	Not found in record	R.B.-I-A-WS-441-90	5.3.1990	-	-	-	Old Ex Jahagir Forest land now included in R. F.
		985.30	'C' Class Chinchona, Reserved Forest	Not found in record	G.I.F.D. Not.No.2197-I-B,dated 13 <sup>th</sup> Oct. 1911	13 <sup>th</sup> Oct. 1911	-	-	-	
	<b>Total Area</b>	<b>56066.53</b>								
1	2	3	4	5	6	7	8	9	10	11
7	Bamadehi	16.60	Unclassed Forest	Not found in record	Collector Order No.Rev/Desk/XXVI/WS/1782/98	28.10.1998	-	-	-	
8	Bhilkheda	4.47	Unclassed Forest (Compensatory Afforestation land)	Not found in record	Collector Order No./Rev/Desk/XVI/WS/43/97	08.01.1997				
	<b>Grand Total Area</b>	<b>56087.60</b>								

**Appendix No. XLII**

**Statement Showing Villagewise Details Of Reserved Forests And Protected Forest  
(Abstract Of Reserved Forest And Protected Forests Notification And List Of  
Changes In Area During Previous Working Plan Period)**

Sr. No	Name of Village	Disforested Area In Ha. Vide No. 31691-79966-W-(i), Dated 19 <sup>th</sup> May 70	Disforested Area In Ha. Vide N. No. FLD-3185/9410, dated 17.10.87	Compartment Nos And Name Of Reserve	Disforested Survey Nos.
1	2	3	4	5	6
1	<i>Butida</i>	47.81	136.61	Comptt. Nos.340 to342,347 & 352 of <i>Bairagarh</i> R.	2 , 4, 6 to 9, 11, 12, 14 to 21, 23 to 25, 27, 29 to 31 , 33 to 39 ,41 to 43 , 45 to 54 , 56 to 58 ,61, 63 to 76 , 78 to 83, 85 to 96, 98 to 103, 105.
	<i>Bilu(Butida)</i>	-	108.94	Comptt. Nos.340 to342,347 & 352 of <i>Bairagarh</i> R.	2, 4, 6 , 8 to 12, 14, 16, 18, 20, 21, 23, 24, 26, 27, 30, 31, 33, 37, 38, 41, 42, 44, 45, 47, 48, 55 to 60, 62 to 64, 66, 70, 73, 74, 76 to 78, 83 .
3	<i>Bodu</i>	31.11	62.86	Comptt. Nos. 342,344,346,347 of <i>Bairagarh</i> R.	1, 3, 5 to 8, 13 , 15 to 19, 21 to 51.
4	<i>Lakhewada</i>	32.26	63.67	Comptt. Nos.349 to351 & 359 of <i>Bairagarh</i> R.	1 to 6, 8, 10, 14, 16, 19, 22, 24, 26, 27, 30 to 33, 35 to 39, 42, 45to 48, 50 to 53 56, 57, 61, 65, 67.
5	<i>Chobita</i>	38.03	85.81	Comptt. Nos.358,360 to 363 of <i>Bairagarh</i> R.	2, 5, 8, 11, 13 to17, 19 to 24, 27 to 29, 31, 32, 34, 37 to 39, 43 to 45, 47, 48, 50, 52, 54 to 58, 60, 61, 63, 64, 69 to 79, 82 to 89, 90, 93 , 98, 99, 103.
6	<i>Biba</i>	82.70	178.25	Comptt. Nos.362,364,366 to368,372 & 373 of <i>Bairagarh</i> R.	1 to 15, 17, 21 to 24,26, 27, 29 to 31, 33, 34, 38, 40, 43, 44, 46, 47, 50 to 59, 62, 63, 65 to 68, 70, 72, 74 to 77, 79 to 90, 92, 93, 95 to 97. 101, 102, 104 to 108, 110 to 119, 121, 123 to 126, 128 to 149, 152 to 159, 161 to 164 .
7	<i>Rahu</i>	69.76	83.09	Comptt. Nos.367,369,370,393 to 395 & 410 of <i>Bairagarh</i> R.	2, 5, 9, 10, 12, 15, 17, 19, 21, 27 to 27, 29 to 39, 41 to 43, 45, 46, 48 to 50, 53, 55 to 60, 62, 66, 70 to 73, 75, 77, 78, 80 to 83, 86, 87, 89 to 91, 94 to 97, 99, 100, 103, 109, 113, 115 to 118, 122, 123.
8	<i>Khari</i>	165.23	290.28	Comptt. Nos.368,371 to 374,377,380 & 384 of <i>Bairagarh</i> R.	1 to 7, 9 to 20, 23, 24, 26, 27, 29 to 31, 34 to 36, 38 to 41, 44 to 47, 49, 52 to 54, 56, 58 to 62, 64, 67, 69 to 76, 78 to 87, 89 to 106, 108 to 122, 125 to132, 134 to136, 138, 140 to 153, 155 to157, 159 to192, 194, 198 to 200 .
9	<i>Hirda</i>	39.95	89.07	Comptt.Nos.370, 380,381 & 392 of <i>Bairagarh</i> R.	1 to 4, 6 to 10, 12 to 17, 19 to 37, 39, 41, 42, 44, 45, 48 to 56, 58 to70 .
10	<i>Tembru</i>	37.17	85.93	Comptt. Nos.381 to 383,387 & 388 of <i>Bairagarh</i> R.	2 to 7, 10 to 13, 15, 17 to 21, 23 to 25, 27, 29 to 44, 46 to 50, 52, 55 to 61, 63 to 67, 70, 73, 74 .

1	2	3	4	5	6
11	<i>Piplya</i>	24.07	71.84	Comptt. Nos. 383 to 387 of <i>Bairagarh R.</i>	2, 5, 7, 9, 10 to 12, 14, 16, 22, 25, 27 to 35, 37, 40, 43 to 46, 48 to 57, 60, 61, 64, 68 to 73 .
12	<i>Bordha</i>	47.81	104.68	Comptt. Nos.389 to 391,439& 440 of <i>Bairagarh R.</i>	1, 2, 5 to 9, 11 to 16, 18 to 25, 27 to 29,31, 32, 34, 35, 38 to47, 49, 50, 53 to58, 60, 61, 63, 64, 67, 71 , 72, 74 to 78, 80 to84, 86 to 89, 92 to 105 .
13	<i>Maritakheda</i>	63.70	113.01	Comptt.Nos.419, 420 of <i>Bairagarh R.</i>	3, 4, 7, 9, 11 to 13, 15, 17, 18, 18-A, 19 to 36, 38, 39, 40, 42, 44, 47, 49, 51, 52, 54, 55, 56, 59 to 62, 64 to 70, 71 to 97, 99, 102, 106 to 116.
14	<i>Karanjkheda</i>	74.18	142.23	Comptt. Nos.431 to 434,436,443 to 445 of <i>Bairagarh R.</i>	5, 7, 9,to 20, 22 to 34, 36, 38 to 50, 52, 53, 54, 55, 57, 58, 60 to 70, 71 to78, 81 to 85, 88, 90 to 99, 101, 102, 104, 105, 107, 108, 109, 113, 115, 116, 119, 121 to125, 127 to130, 131, 133,137, 139, 143, 145, 146, 148, 149, 150 to 155, 157 to160, 162 to166.
15	<i>Ektai</i>	112.32	215.37	Comptt. Nos. 441, 445, 446, 448 to 451 & 462 of <i>Bairagarh R.</i>	2 to5, 7, 9, 11 to28, 32 to 38, 41 to 44, 46, 47, 49, 50 to54, 57 to 62, 64 to67, 69, 70, 73, 74, 77, 78 to90, 90 to 100, 102, 103, 106 to 110, 111 to 119, 121 to 125 , 128to135, 137, 138, 141 to150, 152, 154 to156, 158, 160 , 162 , 164, 165, 168 to 172, 174, 175, 176, 178, 181.
16	<i>Salai</i>	37.34	74.24	Comptt. Nos.452 to 454 of <i>Bairagarh R.</i>	2, 5 to 10, 12, 13, 15, 17 to 21 24 to 28, 31 to 82 .
17	<i>Bhandum</i>	13.59	74.46	Comptt. Nos.454 to 456 of <i>Bairagarh R.</i>	2,3, 5 to 13, 15, 17, 18, 22, 24, 25, 27 to 29
18	<i>Kohana</i>	82.04	119.80	Comptt. Nos. 1,2,64 &65 of <i>Motha &amp; Kohana R.</i>	2, 3, 5 to13, 15, 17, 18, 20, 22 to 28, 32 to 37, 40 to50, 51 to 56, 58, 60, 61 to 63, 66, 69, 70, 70, 71, 74 to 93, 95 ti97, 100, 103,
19	<i>Dhomnipata</i>	18.38	36.79	Comptt. Nos. 2 &3 of <i>Motha R.</i>	3, 5, 6, 9 to 35,
20	<i>Behali</i>	61.24	79.96	Comptt. Nos. 2,9,63,64,66,67 & 68 of <i>Motha &amp; Kohana R.</i>	9, 12, 13, 19, 21, 23, 24, 28, 30, 33, 35, 39, 41, 42, 45 to 49, 54 to 56, 59 to63, 65, 67, 68, 70 to79, 80 , 82, 84, 86 to 94, 96, 98, 100 to106,
21	<i>Bhandri</i>	47.00	71.00	Comptt. Nos. 3,4,7,8 of <i>Motha R.</i>	2, 3, 6, 11, 13, 14, 17, 22, 24 to 28, 30, 33, 36, 37, 38, 40 to 49, 53 to36, 58,
22	<i>Bela</i>	24.40	120.90	Comptt. Nos. 8 to11,60 & 62 of <i>Motha &amp; Kohana R.</i>	1, 3, 4, 7, 10, 11, 14, 15, 17, 20, 21, 22, 24 to 26, 32, 34, 35, 36, 39, 40, 42, 43, 46, 47, 49, 50, 51 to55, 57 to 70, 70 to 80, 82, 84, 87,
23	<i>Salona</i>	190.13	467.09	Comptt. Nos. 10,11,53 to 56 & 60 of <i>Motha &amp; Kohana R.</i>	1, 2, 6 to17, 21, 22, 25, 27, 29, 30, 31, 33, 35, 37, 39, 40, 42 to51, 53 to 56, 58, 60 to72, 75 , 78, 80, 81, 83, 85 to 91, 93, 96, 99, 101 to 109, 111 to 114, 116, 117 , 120 to 144, 146 to 148, 151 to 173, 175 to 198, 200 to 204, 207 to 211, 213, to 215 , 217 to 223, 227, 229 to 238, 243, 244, 246, 249, 252, 255, 257, 269 to 263, 266, 268, 269, 272, 273, 276 to 285, 287, 289, 291, 292, 295, 299, 304, 311, 314, 316, 317, 320, 324, 325, 327, 330, 332, 334, 336, 338, 341, 345, 348, 351,

1	2	3	4	5	6
24	Masondi	48.47	81.81	Comptt. Nos. 49 to 51 & 89 of Chikhaldara & Bairagarh R.	2, 4, 6 to 26, 28, 29, 30, 32, 33, 35,
25	Lonazari(Masondi)	-	261.97	Comptt. Nos. 49 to 51 & 89 of Chikhaldara & Bairagarh R.	1, 3, 4 to 9, 12, 14, 20 to 41, 43 to 70, 72, 74, 77 to 117, 119 to 138, 142 to 144, 146, 148, 150 to 160, 162 to 167, 167 to 172.
26	Bhawai	42.74	42.71	Comptt. Nos. 76,77,82 to 84 of Bairagarh R.	1, 2, 4 to 18, 20, 22 to 26.
27	Bhulori	45.19	198.71	Comptt. Nos. 70 & 72 of Kohana R.	1 to 3, 5, 11 to 16, 18 to 20, 22 to 31, 34, 36, 37, 39, 40, 42 to 44, 46, 48, 50, 52, 54 to 58 60, 62, 63 to 69, 74, 76, 80 to 84, 86 to 98, 100, 109,
28	Lawada	26.69	81.01	Comptt. Nos. 68,69 & 71 of Kohana R.	2 to 10, 12 to 29, 31, 34 to 44,
29	Ghatang	19.65	37.36	Comptt. Nos. 57,58 & 73 of Kohana R.	1, 4, 8, 12, 14, 18, 19, 20, 26, 28, 30, 32, 40, 42, 47, 50, 54, 55, 64, 65 to 68, 71 to 83,
30	Khongda	25.80	85.72	Khirpani R.	9 to 11, 13, 17, 19, 19A, 20, 23, 26, 27, 28, 30, 33, 35, 38, 40, 42, 45, 47, 49, 51, 53, 57, 59, 61 to 90, 93, 95 to 101, 103, 104, 112, 114, 115, 117, 119, 123, 125, 126, 128, 130, 133, 135, 136, 138, 139.
31	Kakadari	30.30	61.85	Khirpani R.	2, 4, 7, 10, 14, 16, 18, 19, 20, 22, 24, 24 A, 26 to 28, 31 to 33, 35, 37, 38, 40, 41 .
32	Khirpani	52.41	39.87	Khirpani R.	2, 4, 6 to 9, 9A, 11, 12, 12A, 13 to 15, 15 A, 16 to 18, 18 A, 19, 20, 23 to 25, 26, 27, 28, 29.
33	Pandhrakhada k	67.14	32.15	Khirpani R.	1, 1A, 7, 14 to 16, 19, 20, 20A 22, 24, 26, 26A, 29, 30, 32 to 35, 39, 41 to 43, 43A, 44 to 46, 46A47.
34	Pipadari	39.63	55.53	Khirpani R.	1, 3, 4, 6 to 11, 13, 15 to 19, 21, 22, 24, 25, 25A.
35	Sawarpani	58.14	24.49	Khirpani R.	1, 2, 4, 5, 5A, 7, 9, 10, 12, 12A, 14 14A 15, to 21, 21A, 32, 25, 26 to 28, 28 A.29, 30.
36	Bori	130.69	94.16	Chikhaldara R.	1, 3 to 7, 9 to 19, 21 to 28, 30, 32 to 44, 46 to 49, 53, 54, 60, 62, 64, 65, 67, 68, 70, 73, 75.
37	Tetu	65.34	79.08	Chikhaldara R.	2 to 11, 13, 15, 16, 18 to 24, 27 29, 30, 35, 37, 39, 40, 41, 43 to 51, 53, 56 to 61, 63 to 65, 67, 68.
38	Churni	35.04	66.66	Chikhaldara R.	1 to 7, 9 to 12, 14 to 23, 25 to 31, 33, 35, 36, 40, 41, 43 to 48, 50, 54 to 57.
39	Mariyampur (Khatkali)	61.41	95.48	Chikhaldara R.	2, 3 to 11, 14 to 16, 18, 21 to 28, 32 to 35, 37 to 43, 46, 52, 55 to 59, 62, 63, 65 to 76, 78 to 81.
40	Shahapur	98.43	246.02	Chikhaldara R.	3, 6, 8, 9, 10, 12, 16, 17, 24, 25, 26, 27, 29 to 32, 34 to 45, 47, 50, 53,, 55 to 61, 63 to 65, 67, 68, 71, 73, 86, 80, 81, 85, 86, 87, 89, 90, 94 to 105, 110, 112, 114, 116, 118, 119, 123 to 128, 130 to 133, 135, 136, 138 to 140, 142to 144, 147 to 150, 152.
41	Lawada	49.78	91.11	Chikhaldara R.	3, 5, 6, 8, 9, 10, 11, 14 to 21, 24, 26 to 32, 34, 36, 38,39, 42, 47, 48, 49, 50 to 56, 58, 60, 61, 63, 64, 65, 68.
42	Aladoh	47.98	88.98	Chikhaldara R.	2, 3, 5, 6, 7, 8, 9, 10, 11, 14 to 24, 26 to 34, 36, 38, 39, 42, 47 to 49, 51 to 56, 58, 60, 61, 63, 64, 65, 68.

1	2	3	4	5	6
43	<i>Mozari</i>	24.40	73.38	<i>Chikhaldara R.</i>	2, 5, 7, 8, 9, 10, 11, 12, 14, 15, 17, 20, 22 to 26, 26, 28 to 32, 34, 35, 37, 39, 42, 44, 45, 46, 49, 50, 52, 55, 57.
44	<i>Baglinga</i>	68.29	211.06	<i>Chikhaldara R.</i>	1, 3, 5, 6, 8, 9, 10, 12, 13, 15 to 19, 21 to 23, 25, 26, 28, 33, 35, 36, 40 to 43, 45, 46, 48, 50, 51, 55, 58, 59, 60, 62, 64 to 73, 75, 77 to 79, 81, 82, 84, 85, 87, 88, 90 to 93, 95, 96 to 100, 103 to 111, 114.
45	<i>Amazari</i>	121.68	251.66	<i>Chikhaldara R.</i>	1 to 6, 8 to 13, 15, 17, 20, 21, 24, 25, 26, 27, 29, 31, 33 to 35, 36, 40 to 43, 45, 47, 48, 50 to 57, 59 to 62, 64 to 73, 75 to 80, 86 to 89, 91, 94 to 103, 106 to 109, 111, 113, 114.
46	<i>Adnadi</i>	120.04	215.45	<i>Motha R.</i>	1, 4, 7, 8, 10, 13, 14, 17, 18, 20, 21, 23 to 26, 28 to 31, 34 to 39, 41, 43, 57, 59 to 64, 66, 67, 69 to 82.
47	<i>Chichati</i>	83.85	169.57	<i>Motha R.</i>	2, 4, 5, 8, 10, 12, 16 to 20, 22, 23, 26, 28, 31, 32, 34, 36, 37, 39 to 41, 44, 45, 48, 50, 51, 53, 54, 55, 57, 59, 60, 62 to 64, 66, to 68, 71, 74, 75, 77, 79, 80, 82, 85, 86, 88, 89, 90, 91 to 96, 98 to 108.
48	<i>Jaitadehi</i>	50.28	86.80	<i>Motha R.</i>	1, 3, 4, 1, 5, 7, 8, 11, 13 to 17, 19, 20, 22 to 27, 29, 32 to 35.
49	<i>Jambli</i>	103.75	116.14	<i>Motha R.</i>	4, 7, 11, 13, 15 to 18, 20, 21, 23 to 25, 27 to 29, 33 to 35, 37, 38, 40 to 51, 52 to 62, 64 to 68, 70 to 75, 77, 80 to 87.
50	<i>Kamapur</i>	64.85	164.87	<i>Motha R.</i>	5, 8 to 17, 19, 21 to 23, 25, 27 to 40, 42 to 46, 49, to 53, 55, 56, 58 to 63, 65, 66, 68 to 79.
51	<i>Jamunnala</i>	90.73	62.27	<i>Motha R.</i>	1, 3, 5, 8, 12 to 28, 31, 33, 34, 36, 37, 42, 45, 51, 53, 55, 57, 58, 60 to 63, 65, 67, 69, 70.
52	<i>Motha</i>	272.76	672.56	<i>Motha R.</i>	1, 2, 3, 5, 7, 8 to 12, 14, to 16, 20, 22 to 25, 27 to 42, 45, 48, 50 to 69, 73 to 98, 100 to 130, 132 to 233, 235, 236, 236, 240, 242 to 251, 254 to 306.
53	<i>Madki</i>	103.67	193.27	<i>Motha R.</i>	3, 4, 8, 11, 15, 17, 19, 21, 23 to 26, 30, 32 to 34, 36, 39 to 88, 93, 94, 96 to 98, 102, 105 to 109, 111, 112.
54	<i>Manbhang (Bhilkheda)</i>	145.59	101.66	<i>Motha R.</i>	2, 6, 7, 10 to 14, 16 to 19, 21, to 23, 25, 26, 28 to 46, 48 to 50, 53 to 55, 57 to 63, 65, 66, 70, 73 to 79, 81 to 83, 85, 88, 90, 91, 93 to 95, 97, 98.



## Appendix No. XLIII

### Other Department Roads

Sr. No.	Range	Name of Road	Length Km.	Type
1	Chikhaldhara	Chikhaldhara to Dhamangaon	23.00	Tar Road
		Chikhaldhara to Ghatang	22.00	Tar Road
		Chikhaldhara to Vairat Road	12.00	Tar Road
		Dhamangaon, Kulangana to Asalwada	21.00	Metal Road
2	Anjangaon	Akot to Harisal (Part)	8.00	Tar Road
		Vastapur to Sonapur	9.22	Metal Road
		Sonapur to Morgad	3.82	Metal Road
		Borda to Sonapur	4.50	Metal Road
3	Ghatang	Baranpur to Amravati (Part)	35.00	Metal Road
		Ghatang to Khamla	12.00	Metal Road
4	Jarida	Butida to Hatru	7.00	Metal Road
		Katkumbh to Toranwadi	3.00	Metal Road
		Jarida, Churni, Gangarkheda to Khari	18.00	Metal Road
		Doma to Kajaldoh	3.00	Metal Road
		Kotmi to Toranwadi	3.89	Metal Road
		Kotmi to Jarida	16.00	Metal Road



**Appendix No.XLIV**

**Statement Showing Tahsil Wise Information About Unskilled Labours  
As Registered With Tahsildar (2001-02)**

Sr.No.	Name of Saza	Name of Village	Male	Female	Total
1	<i>Khirpani</i>	<i>Khirpani</i>	57	61	118
		<i>Sawarpani</i>	97	104	201
		<i>Garajdari</i>	51	49	100
		<i>Kakadari</i>	52	65	117
		<i>Pipadari</i>	20	32	52
		<i>Pandhrathdake</i>	34	41	75
		<b>Total</b>	<b>311</b>	<b>352</b>	<b>663</b>
2	<i>Hilda</i>	<i>Hilda</i>	36	41	77
		<i>Tembaru</i>	14	19	33
		<i>Piplya</i>	21	15	36
		<i>Bordha</i>	80	62	142
		<i>Khari</i>	112	134	246
		<i>Rahu</i>	87	84	171
		<i>Biba</i>	98	109	207
		<i>Chobita</i>	17	29	46
		<i>Marita</i>	38	33	71
		<b>Total</b>	<b>503</b>	<b>526</b>	<b>1029</b>
3	<i>Jarida</i>	<i>Jarida</i>	10	20	30
		<i>Kamida</i>	20	59	79
		<i>Meharium</i>	20	60	80
		<i>Aawagadh</i>	43	72	115
		<i>Butida</i>	21	61	82
		<i>Chunkhadi</i>	42	90	132
		<i>Nawlgaon</i>	25	40	65
		<i>Bichukheda</i>	16	20	36
		<i>Khadimal</i>	53	110	163
		<i>Ghana</i>	17	26	43
		<i>Madizadap</i>	20	40	60
		<i>Khandukheda</i>	38	60	98
		<b>Total</b>	<b>328</b>	<b>658</b>	<b>986</b>
4	<i>Raipur</i>	<i>Raipur</i>	80	150	230
		<i>Borwakheda</i>	75	95	170
		<i>Kuhi</i>	60	70	130
		<i>Bhutrum</i>	55	80	135
		<b>Total</b>	<b>270</b>	<b>395</b>	<b>665</b>

Sr.No.	Name of Saza	Name of Village	Male	Female	Total
5	<i>Semadoha</i>	<i>Semadoha</i>	150	235	385
		<i>Makhala</i>	157	169	326
		<i>Pili</i>	74	61	135
		<i>Bhawai</i>	48	44	92
		<b>Total</b>	<b>429</b>	<b>509</b>	<b>938</b>
6	<i>Dhkana</i>	<i>Dhkana</i>	84	108	192
		<i>Gadgaon</i>	111	124	235
		<i>Bhandum</i>			
		<i>Sawray</i>	21	22	43
		<i>Bhandum</i>	27	47	74
		<i>Dabiya</i>	42	41	83
		<i>Dolare</i>	18	35	53
		<i>Adaw</i>	27	50	77
		<i>Koha</i>	31	32	63
		<b>Total</b>	<b>361</b>	<b>459</b>	<b>820</b>
7	<i>Gangarkheda</i>	<i>Gangarkheda</i>	80	90	170
		<i>Toranwadi</i>	30	50	80
		<i>Bagadati</i>	39	50	89
		<b>Total</b>	<b>149</b>	<b>190</b>	<b>339</b>
8	<i>Dahendri</i>	<i>Dahendri</i>	166	174	340
		<i>Kotami</i>	182	177	359
		<i>Palsya</i>	87	92	179
		<i>Bodu</i>	46	48	94
		<i>Lakhwada</i>	43	48	91
		<b>Total</b>	<b>550</b>	<b>539</b>	<b>1089</b>
9	<i>Doma</i>	<i>Doma</i>	296	190	486
		<i>Kajaldoha</i>	240	255	495
		<i>bhamadehi</i>	160	110	270
<b>Total</b>	<b>696</b>	<b>555</b>	<b>1251</b>		
10	<i>Khatkali</i>	<i>Khatkali</i>	82	99	181
		<i>Aahala</i>	70	82	152
		<i>Zingapur</i>	62	69	131
		<i>Menghat</i>	48	57	105
		<b>Total</b>	<b>262</b>	<b>307</b>	<b>569</b>
11	<i>Hatru</i>	<i>Hatru</i>	140	143	283
		<i>Sarwarkheda</i>	97	100	197
		<i>Chilati</i>	75	73	148
		<i>Simori</i>	170	164	334
		<i>Karangkheda</i>	120	142	262
		<i>Ruipadhar</i>	60	61	121
		<i>Domi</i>	66	75	141
<i>Ektai</i>	130	151	281		

Sr.No.	Name of Saza	Name of Village	Male	Female	Total
		<i>Salita</i>	57	60	117
		<i>Sumita</i>	72	75	147
		<i>Bhandum</i>	31	33	64
		<i>Kutinda</i>	40	42	82
		<b>Total</b>	<b>1058</b>	<b>1119</b>	<b>2177</b>
12	<i>Tembrusonda</i>	<i>Tembrusonda</i>	98	102	200
		<i>Chandpur</i>	62	96	158
		<i>Dharamdoha</i>	48	56	104
		<i>Bahaderpur</i>	39	47	86
		<i>Pulangana Bj</i>	31	43	74
		<i>Chickheda</i>	63	76	139
		<i>Jamli R</i>	86	73	159
		<i>Ambapati</i>	56	61	117
		<i>Girguti</i>	58	72	130
		<i>Khogada</i>	41	58	99
		<b>Total</b>	<b>582</b>	<b>684</b>	<b>1266</b>
13	<i>Tarubanda</i>	<i>Tarubanda</i>	163	175	338
		<i>Kund</i>	26	31	57
		<i>Patkahu</i>	89	72	161
		<i>Raksha</i>	25	33	58
		<i>Kale</i>	80	125	205
		<i>Kesarpur</i>	145	216	361
		<i>Chikli</i>	69	131	200
		<i>Bhiroja</i>	108	112	220
		<b>Total</b>	<b>705</b>	<b>895</b>	<b>1600</b>
14	<i>Gaulkheda(ba)</i>	<i>Gaulkheda(ba)</i>	21	42	63
		<i>Nagapur</i>	56	72	128
		<i>Odhapati</i>	27	39	66
		<i>Mangerkapdi</i>	28	34	62
		<i>Borada</i>	52	109	161
		<i>Ganadhari</i>	104	104	208
		<i>Bhilkheda</i>	26	57	83
		<b>Total</b>	<b>314</b>	<b>457</b>	<b>771</b>
15	<i>Morgad</i>	<i>Morgad</i>	122	145	267
		<i>Sonapur</i>	143	150	293
		<i>Telkhar</i>	112	120	232
		<i>Aakhi</i>	98	106	204
		<i>chauryamal</i>	51	53	104
		<i>Saktirui</i>	75	104	179
		<b>Total</b>	<b>601</b>	<b>679</b>	<b>1280</b>
16	<i>Ghatang</i>	<i>Ghatang</i>	37	31	68
		<i>Gulori</i>	80	84	164
		<i>Lagada</i>	56	58	114
		<i>Salona</i>	217	229	446

Sr.No.	Name of Saza	Name of Village	Male	Female	Total
		<i>Jamli wan</i>	41	38	79
		<i>Jamun nala</i>	39	39	78
		<i>Bela</i>	76	72	148
		<i>Lonazari</i>	52	57	109
		<b>Total</b>	<b>598</b>	<b>608</b>	<b>1206</b>
17	<i>Churani</i>	<i>Churni</i>	131	194	325
		<i>Bhandora</i>	190	215	405
		<i>Karada</i>	127	203	330
		<i>Korda</i>	285	325	610
		<i>barugavan</i>	190	235	425
		<b>Total</b>	<b>923</b>	<b>1172</b>	<b>2095</b>
18	<i>Bihali</i>	<i>Bihali</i>	44	50	94
		<i>Kohana</i>	70	80	150
		<i>Dhomanikata</i>	11	11	22
		<i>Bhanri</i>	65	62	127
		<i>Adnadi</i>	92	116	208
		<i>Manbhanga</i>	97	120	217
		<i>Bhilkheda</i>	99	98	197
		<i>Jaitadi</i>	75	85	160
		<i>Hatighat</i>	69	93	162
		<b>Total</b>	<b>622</b>	<b>715</b>	<b>1337</b>
19	<i>Chikaldara</i>	<i>Motha</i>	100	190	290
		<i>Madki</i>	50	190	240
		<i>Kamapur</i>	55	155	210
		<i>Bori</i>	90	130	220
		<i>Shahapu r</i>	15	30	45
		<i>Aamadoha</i>	21	42	63
		<i>Lawada</i>	15	25	40
		<i>Amzari</i>	85	120	205
		<i>Khatkali</i>	65	78	143
		<i>Tatu</i>	31	45	76
		<i>Memana</i>	11	19	30
		<i>Wairat</i>	14	24	38
		<i>Surani</i>	10	15	25
		<i>Pachtalai</i>	42	83	125
		<b>Total</b>	<b>604</b>	<b>1146</b>	<b>1750</b>
20	<i>Katkumbha</i>	<i>Katkumbha</i>	130	174	304
		<i>Kaneri</i>	21	56	77
		<i>Koyalari</i>	71	95	166
		<i>Pachdongari</i>	180	130	310
		<b>Total</b>	<b>402</b>	<b>455</b>	<b>857</b>

<b>Sr.No.</b>	<b>Name of Saza</b>	<b>Name of Village</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
21	<i>Wastapur</i>	<i>Wastapur</i>	164	168	332
		<i>Somwarkheda</i>	111	120	231
		<i>Malkapur</i>	42	56	98
		<i>Kulangana bujruk</i>	20	24	44
		<i>Ramtek</i>	20	25	45
		<i>Badnapur</i>	52	55	107
		<i>Herdamul</i>	23	33	56
		<i>Kalapani</i>	26	30	56
		<i>Chicati</i>	10	13	23
		<i>Mozari</i>	15	20	35
		<i>Bagalinga</i>	113	133	246
		<b>Total</b>	<b>596</b>	<b>677</b>	<b>1273</b>
22	<i>Dhargad</i>	<i>Dhargad</i>	18	22	40
		<i>Kelpani</i>	30	35	65
		<i>Gularghat</i>	17	21	38
		<i>Amona</i>	40	45	85
		<i>Somathana khu</i>	45	55	100
		<i>Bori</i>	-	-	-
		<i>Nagardas</i>	16	21	37
		<i>Barukheda</i>	29	35	64
		<i>Mothkheda</i>	31	37	68
		<b>Total</b>	<b>226</b>	<b>271</b>	<b>497</b>

### ABSTRACT

Sr.No.	Name of Saza	Total No. of Village	Male	Female	Total
1	2	3	4	5	6
1	<i>Khirpani</i>	6	311	352	663
2	<i>Hilda</i>	9	503	526	1029
3	<i>Jarida</i>	12	328	658	986
4	<i>Raipur</i>	4	270	395	665
5	<i>Semadoh</i>	4	429	509	938
6	<i>Dhakna</i>	8	361	459	820
7	<i>Gangarkheda</i>	3	149	190	339
8	<i>Dahendri</i>	5	550	539	1089
9	<i>Doma</i>	3	696	555	1251
10	<i>Khatkali</i>	4	262	307	569
11	<i>Hatru</i>	12	1058	1119	2177
12	<i>Tebru Sonda</i>	10	582	684	1266
13	<i>Taru Banda</i>	8	705	895	1600
14	<i>Goulkheda</i>	7	314	457	771
15	<i>Morgarh</i>	6	601	679	1280
16	<i>Ghatang</i>	8	598	608	1206
17	<i>Churni</i>	5	923	1172	2095
18	<i>Bihali</i>	9	622	715	1337
19	<i>Chikhaldara</i>	14	604	1146	1750
20	<i>Kat Kumbh</i>	4	402	455	857
21	<i>Wastapur</i>	11	596	677	1273
22	<i>Dhargarh</i>	9	226	271	497
	<b>Total</b>	<b>164</b>	<b>11090</b>	<b>13368</b>	<b>24458</b>



**Appendix No. XLV**  
**Results of Stem Analysis**  
**Stem Analysis Form No.1 : Radial Measurements**

Species : Teak  
 Site Quality : II/III

Tree No.1  
 Dt.06 /11 / 2001

Division : East Melghat  
 Compartment No.200

S. No.	Height to Section	Age to Section years	Rings on section	Diameter Over bark cm.	Diameter Under bark cm.	Twice bark thickness cm.	Average radius cm.	length of Section m.	Radius at successive decades											Additional Measurements
									110	100	90	80	70	60	50	40	30	20	10	
1	1.37	0	112	49.6	47.8	1.8	23.1	2.74	22.6	21.4	20.8	20.2	17.5	16.0	13.1	11.2	8.2	5.3	2.4	(1)Total Height <b>21.70</b> m. Girth at breast height <b>177</b> cm.
				46.2	44.5				22.9	21.2	21.5	20.5	17.8	15.7	13.8	11.8	8.9	5.4	2.2	
				<b>47.9</b>	<b>46.2</b>				<b>45.5</b>	<b>42.6</b>	<b>42.3</b>	<b>40.7</b>	<b>35.3</b>	<b>31.7</b>	<b>26.9</b>	<b>23.0</b>	<b>17.1</b>	<b>10.7</b>	<b>4.6</b>	
2	4.24	13	99	37.0	36.2	0.9	17.9	3.00	17.8	16.5	15.4	14.1	11.6	10.8	8.6	7.3	5.3	3.0	(2)Total Age : <b>112 +</b> years (3)Height to first green branch <b>9.10</b> m. Average Clear bole <b>11.00</b> m. Average Crown length: <b>9.80</b> m.	
				36.5	35.5				17.7	16.3	14.7	13.1	11.4	10.1	8.8	6.6	4.9	2.9		
				<b>36.8</b>	<b>35.9</b>				<b>35.5</b>	<b>32.8</b>	<b>30.1</b>	<b>27.2</b>	<b>23.0</b>	<b>20.9</b>	<b>17.4</b>	<b>13.9</b>	<b>10.2</b>	<b>5.9</b>		
3	7.24	22	90	37.7	36.8	1.1	17.5	3.00	17.4	16.5	15.5	12.3	11.2	10.0	6.1	5.5	2.4	(4)Height to 20 cm. d.o.b. 14.82 d.u.b.at this point : <b>19.1</b> Cm. Average Crown width: <b>8.00</b> m.		
				34.2	33.0				17.2	16.2	14.5	13.5	11.4	10.8	8.7	5.9	2.8			
				<b>36.0</b>	<b>34.9</b>				<b>34.6</b>	<b>32.7</b>	<b>30.0</b>	<b>25.8</b>	<b>22.6</b>	<b>20.8</b>	<b>14.8</b>	<b>11.4</b>	<b>5.2</b>			
4	10.24	33	79	32.2	31.2	0.9	13.7	3.00	13.8	13.1	12.4	11.8	11.0	9.2	5.6	1.6	(5)Height to 5 cm. d.o.b. 20.82 m d.u.b.at this point : <b>3.8</b> Cm. (6)Height from breast height to halfway to tip: <b>10.24</b> m.			
				24.5	23.7				13.5	12.5	11.6	10.4	8.6	6.1	4.4	1.4				
				<b>28.4</b>	<b>27.5</b>				<b>27.3</b>	<b>25.6</b>	<b>24.0</b>	<b>22.2</b>	<b>19.6</b>	<b>15.3</b>	<b>10.0</b>	<b>3.0</b>				
5	13.24	36	76	23.9	23.0	0.8	10.8	3.00	10.7	9.7	8.8	7.8	7.1	5.7	3.7	1.2	d.o.b. at this point: <b>19.0</b> cm. d.u.b. at this point: <b>18.0</b> cm.			
				21.0	20.2				10.5	10.0	9.2	8.6	7.4	5.2	4.3	1.4				
				<b>22.5</b>	<b>21.6</b>				<b>21.2</b>	<b>19.7</b>	<b>18.0</b>	<b>16.4</b>	<b>14.5</b>	<b>10.9</b>	<b>8.0</b>	<b>2.6</b>				
6	16.24	59	63	15.5	14.9	0.9	7.0	3.00	6.9	6.1	5.3	4.4	3.1	2.1	0.6					
				14.2	13.1				7.0	6.4	5.7	4.7	3.5	2.8	0.8					
				<b>14.9</b>	<b>14.0</b>				<b>13.9</b>	<b>12.5</b>	<b>11.0</b>	<b>9.1</b>	<b>6.6</b>	<b>4.9</b>	<b>1.4</b>					
7	19.24	79	33	6.8	6.1	0.8	3.0	3.48	2.9	2.6	1.7	0.4								
				6.8	5.9				2.9	2.3	1.7	0.5								
				<b>6.8</b>	<b>6.0</b>				<b>5.8</b>	<b>4.9</b>	<b>3.4</b>	<b>0.9</b>								

### Stem Analysis: Form No.3a: Age Computation

Tree No.	Height of Section (Meters)													
	1.37		4.24		7.24		10.24		13.24		16.24		19.24	
		Dev.		Dev.		Dev.		Dev.		Dev.		Dev.		Dev.
1	0		13.0		22.0		33.0		24.0		36.0		59.0	0.24
<b>Total</b>	<b>0</b>		<b>13.0</b>		<b>22.0</b>		<b>33.0</b>		<b>24.0</b>		<b>36.0</b>		<b>59.0</b>	<b>0.24</b>
No.	1		1		1		1		1		1		1	1
Av.Age	0		13.0		22.0		33.0		24.0		36.0		59.0	0.24

### Curve I (Height/Age)

Age	ht.of section in m.
0	1.37
13	4.24
22	7.24
33	10.24
36	13.24
59	16.24
79	19.48

**Stem Analysis Form No.3b**  
**Mean Diameter Computation For Decades (1-11)**

Tree No.	Height of Section (Meters)													
	1.37		4.24		7.24		10.24		13.24		16.24		19.24	
	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.	Dev.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>DECADE 1</b>														
1	4.6													
<b>Total</b>	<b>4.6</b>													
No.	1													
Av	<b>4.6</b>													
<b>DECADE 2</b>														
1	10.7		5.9											
<b>Total</b>	<b>10.7</b>		<b>5.9</b>											
No.	1		1											
Av	<b>10.7</b>		<b>5.9</b>											
<b>DECADE 3</b>														
1	17.1		10.2		5.2									
<b>Total</b>	<b>17.1</b>		<b>10.2</b>		<b>5.2</b>									
No.	1		1		1									
Av	<b>17.1</b>		<b>10.2</b>		<b>5.2</b>									
<b>DECADE 4</b>														
1	23.0		13.9		11.4		3.0		2.6					
<b>Total</b>	<b>23.0</b>		<b>13.9</b>		<b>11.4</b>		<b>3.0</b>		<b>2.6</b>					
No.	1		1		1		1		1					
Av	<b>23.0</b>		<b>13.9</b>		<b>11.4</b>		<b>3.0</b>		<b>2.6</b>					
<b>DECADE 5</b>														
1	26.9		17.4		14.8		10.0		8.0		1.4			
<b>Total</b>	<b>26.9</b>		<b>17.4</b>		<b>14.8</b>		<b>10.0</b>		<b>8.0</b>		<b>1.4</b>			
No.	1		1		1		1		1		1			
Av	<b>26.9</b>		<b>17.4</b>		<b>14.8</b>		<b>10.0</b>		<b>8.0</b>		<b>1.4</b>			
<b>DECADE 6</b>														
1	31.7		20.9		20.6		15.3		10.9		4.9			
<b>Total</b>	<b>31.7</b>		<b>20.9</b>		<b>20.6</b>		<b>15.3</b>		<b>10.9</b>		<b>4.9</b>			
No.	1		1		1		1		1		1			
Av	<b>31.7</b>		<b>20.9</b>		<b>20.6</b>		<b>15.3</b>		<b>10.9</b>		<b>4.9</b>			
<b>DECADE 7</b>														
1	35.3		23.0		22.6		19.6		14.5		6.6			
<b>Total</b>	<b>35.3</b>		<b>23.0</b>		<b>22.6</b>		<b>19.6</b>		<b>14.5</b>		<b>6.6</b>			
No.	1		1		1		1		1		1			
Av	<b>35.3</b>		<b>23.0</b>		<b>22.6</b>		<b>19.6</b>		<b>14.5</b>		<b>6.6</b>			
<b>DECADE 8</b>														
1	40.7		27.2		25.8		22.2		16.4		9.1		0.9	
<b>Total</b>	<b>40.7</b>		<b>27.2</b>		<b>25.8</b>		<b>22.2</b>		<b>16.4</b>		<b>9.1</b>		<b>0.9</b>	
No.	1		1		1		1		1		1		1	
Av	<b>40.7</b>		<b>27.2</b>		<b>25.8</b>		<b>22.2</b>		<b>16.4</b>		<b>9.1</b>		<b>0.9</b>	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>DECADE 9</b>														
1	42.3		30.1		30.0		24.0		18.0		11.0		3.4	
<b>Total</b>	<b>42.3</b>		<b>30.1</b>		<b>30.0</b>		<b>24.0</b>		<b>18.0</b>		<b>11.0</b>		<b>3.4</b>	
No.	1		1		1		1		1		1		1	
Av	42.3		30.1		30.0		24.0		18.0		11.0		3.4	
<b>DECADE 10</b>														
1	42.6		32.8		32.7		25.6		19.7		12.5		4.9	
<b>Total</b>	<b>42.6</b>		<b>32.8</b>		<b>32.7</b>		<b>25.6</b>		<b>19.7</b>		<b>12.5</b>		<b>4.9</b>	
No.	1		1		1		1		1		1		1	
Av	42.6		32.8		32.7		25.6		19.7		12.5		4.9	
<b>DECADE 11</b>														
1	45.5		35.5		34.6		27.3		21.2		13.9		5.8	0.24
<b>Total</b>	<b>45.5</b>		<b>35.5</b>		<b>34.6</b>		<b>27.3</b>		<b>21.2</b>		<b>13.9</b>		<b>5.8</b>	<b>0.24</b>
No.	1		1		1		1		1		1		1	1
Av	45.5		35.5		34.6		27.3		21.2		13.9		5.8	0.24

**Curve II: Diameter u. b. / Height (First Curve)**

Decade: ht.of section	10	20	30	40	50	60	70	80	90	100	110
	Dia. ( u. b.)										
1.37	4.6	10.7	17.1	23.0	26.9	31.7	35.3	40.7	42.3	42.6	45.5
4.24	0.0	5.9	10.2	13.9	17.4	20.9	23.0	27.2	30.1	32.8	35.5
7.24		0.0	5.2	11.4	14.8	20.6	22.6	25.8	30.0	32.7	34.6
10.24			0.0	3.0	10.0	15.3	19.6	22.2	24.0	25.6	27.3
13.24				2.6	8.0	10.9	14.5	16.4	18.0	19.7	21.2
16.24				0.0	1.4	4.9	6.6	9.1	11.0	12.5	13.9
19.24					0.0	0.0	0.0	0.9	3.4	4.9	5.8

**Curve III: Diameter u. b. / Rings at b. ht. (Second Curve)**

Decade: ht.of section in m.	10	20	30	40	50	60	70	80	90	100	110
	Dia.( u.b.)in cm.										
1.37	4.6	10.7	17.1	22.5	26.9	31.7	35.3	40.1	42.3	42.6	45.5
4.24	0.0	5.9	10.2	13.9	17.4	20.9	23.8	27.2	30.1	32.8	35.5
7.24		0.0	5.2	10.2	14.8	19.0	22.6	25.8	28.7	31.8	34.6
10.24			0.0	4.5	10.0	15.3	19.6	22.2	24.0	25.6	27.3
13.24				2.6	7.4	10.9	14.5	16.4	18.0	19.7	21.2
16.24				0.0	1.9	4.9	6.6	9.1	11.0	12.5	13.9
19.24					0.0	0.0	0.0	0.9	3.4	4.9	5.8

**Curve IV: Diameter u.b./ Rings at b.ht. (Second Curve)**

Decade: ht.of section	10	20	30	40	50	60	70	80	90	100	110
	Dia.( u.b.)										
1.37	4.6	10.7	17.1	22.5	26.9	31.7	35.3	40.1	42.3	42.6	45.5
4.24	0.0	5.9	10.2	13.9	17.4	20.9	23.8	27.2	30.1	32.8	35.5
7.24		0.0	5.2	10.2	14.8	19.0	22.6	25.8	28.7	31.8	34.6
10.24			0.0	4.5	10.0	15.3	19.6	22.2	24.0	25.6	27.3
13.24				2.6	7.4	10.9	14.5	16.4	18.0	19.7	21.2
16.24				0.0	1.9	4.9	6.6	9.1	11.0	12.5	13.9
19.24					0.0	0.0	0.0	0.9	3.4	4.9	5.8

Stem Analysis Form No.3c: MEAN TREE VOLUME COMPUTATION FOR DECADES (1-11)

Item	Height of Section (Cu.Metrs)											Total Volume	CAI	MAI			
	1.37		4.24		7.24		10.24		13.24		16.24				19.24		
	Dev.		Dev.		Dev.		Dev.		Dev.		Dev.					Dev.	
<b>10 YEARS</b>																	
Ave.Dia	4.6		0.0		0.0		0.0		0.0		0.0						
Basal Area	0.0017		0.0000		0.0000		0.0000		0.0000		0.0000						
Volume	<b>0.0046</b>		<b>0.0000</b>		<b>0.0000</b>		<b>0.0000</b>		<b>0.0000</b>		<b>0.0000</b>				0.0046		0.0005
<b>20 YEARS</b>																	
Ave.Dia	10.7		5.9		0.0		0.0		0.0		0.0						0.0028
Basal Area	0.0090		0.0027		0.0000		0.0000		0.0000		0.0000						
Volume	<b>0.0246</b>		<b>0.0082</b>		<b>0.0000</b>		<b>0.0000</b>		<b>0.0000</b>		<b>0.0000</b>				0.0329		0.0016
<b>30 YEARS</b>																	
Ave.Dia	17.1		10.2		5.2		0.0		0.0		0						0.0061
Basal Area	0.0230		0.0082		0.0021		0.0000		0.0000		0.0000						
Volume	<b>0.0630</b>		<b>0.0245</b>		<b>0.0064</b>		<b>0.0000</b>		<b>0.0000</b>		<b>0.0000</b>				0.0938		0.0031
<b>40 YEARS</b>																	
Ave.Dia	22.5		13.9		10.2		4.5		2.6		0						0.0092
Basal Area	0.0398		0.0152		0.0082		0.0016		0.0005		0.0000						
Volume	<b>0.1090</b>		<b>0.0455</b>		<b>0.0245</b>		<b>0.0048</b>		<b>0.0016</b>		<b>0.0000</b>				0.1854		0.0046
<b>50 YEARS</b>																	
Ave.Dia	26.9		17.4		14.8		10.0		7.4		1.9		0.0				0.0131
Basal Area	0.0569		0.0238		0.0172		0.0079		0.0043		3E-04		0.0000				
Volume	<b>0.1558</b>		<b>0.0714</b>		<b>0.0516</b>		<b>0.0236</b>		<b>0.0129</b>		<b>9E-04</b>		<b>0.0000</b>		0.3161		0.0063
<b>60 YEARS</b>																	
Ave.Dia	31.7		20.9		19.0		15.3		10.9		4.9		0.0				0.0177
Basal Area	0.0790		0.0343		0.0284		0.0184		0.0093		0.0019		0.0000				
Volume	<b>0.2163</b>		<b>0.1030</b>		<b>0.0851</b>		<b>0.0552</b>		<b>0.0280</b>		<b>0.0057</b>		<b>0.0000</b>		0.4932		0.0082
<b>70 YEARS</b>																	
Ave.Dia	35.3		23.8		22.6		19.6		14.5		6.6		0.0				0.0179
Basal Area	0.0979		0.0445		0.0401		0.0302		0.0165		0.0034		0.0000				
Volume	<b>0.2683</b>		<b>0.1335</b>		<b>0.1204</b>		<b>0.0906</b>		<b>0.0496</b>		<b>0.0103</b>		<b>0.0000</b>		0.6726		0.0096
<b>80 YEARS</b>																	
Ave.Dia	40.1		27.2		25.8		22.2		16.4		9.1		0.9	0.24			0.0204
Basal Area	0.1263		0.0581		0.0523		0.0387		0.0211		0.0065		0.0001				
Volume	<b>0.3462</b>		<b>0.1744</b>		<b>0.1569</b>		<b>0.1162</b>		<b>0.0634</b>		<b>0.0195</b>		<b>0.0002</b>	0.24	0.8768		0.0125
<b>90 YEARS</b>																	
Ave.Dia	42.3		30.1		28.7		24		18.0		11.0		3.4	0.24			0.0160
Basal Area	0.1406		0.0712		0.0647		0.0453		0.0255		0.0095		0.0009				
Volume	<b>0.3852</b>		<b>0.2136</b>		<b>0.1942</b>		<b>0.1358</b>		<b>0.0764</b>		<b>0.0285</b>		<b>0.0032</b>	0.24	1.0367		0.0148
<b>100 YEARS</b>																	
Ave.Dia	42.6		32.8		31.8		25.6		19.7		12.5		4.9	0.24			0.0135
Basal Area	0.1426		0.0845		0.0795		0.0515		0.0305		0.0123		0.0019				
Volume	<b>0.3907</b>		<b>0.2536</b>		<b>0.2384</b>		<b>0.1545</b>		<b>0.0915</b>		<b>0.0368</b>		<b>0.0066</b>	0.24	1.1720		0.0167
<b>110 YEARS</b>																	
Ave.Dia	45.5		35.5		34.6		27.3		21.2		13.9		5.8	0.24			0.0189
Basal Area	0.1627		0.0990		0.0941		0.0586		0.0353		0.0152		0.0026				
Volume	<b>0.4457</b>		<b>0.2971</b>		<b>0.2822</b>		<b>0.1757</b>		<b>0.1059</b>		<b>0.0455</b>		<b>0.0092</b>	0.24	1.3613		0.0194

### CAI/MAI Curves

Age	MAI in cum.
0	0
10	0.0005
20	0.0016
30	0.0031
40	0.0046
50	0.0063
60	0.0082
70	0.0096
80	0.0125
90	0.0148
100	0.0167
110	0.0194

Age	CAI in cum.
0	0
15	0.0028
25	0.0061
35	0.0092
45	0.0131
55	0.0177
65	0.0179
75	0.0204
85	0.0160
95	0.0135
105	0.0189

### Computation For Bark Thickness

2.5 - 10 cm.		10.1 -20.0 cm.		20.0 -30.0cm.		30.1- 40.0cm.		40.0-50.0cm.	
D.U.B.	2xB.T.	D.U.B.	2xB.T.	D.U.B.	2xB.T.	D.U.B.	2xB.T.	D.U.B.	2xB.T.
6.0	0.8	14.0	0.9	21.6	0.8	34.9	1.1	46.2	1.8
0.0	0.0	0.0	0.0	27.5	0.9	35.9	0.9	0.0	0.0
<b>6.0</b>	<b>0.8</b>	<b>14.0</b>	<b>0.9</b>	<b>49.1</b>	<b>1.7</b>	<b>70.8</b>	<b>2.0</b>	<b>46.2</b>	<b>1.8</b>
1	1	1	1	2	2	2	2	1	1
<b>6.0</b>	<b>0.8</b>	<b>14.0</b>	<b>0.9</b>	<b>24.6</b>	<b>0.9</b>	<b>35.4</b>	<b>1.0</b>	<b>46.2</b>	<b>1.8</b>

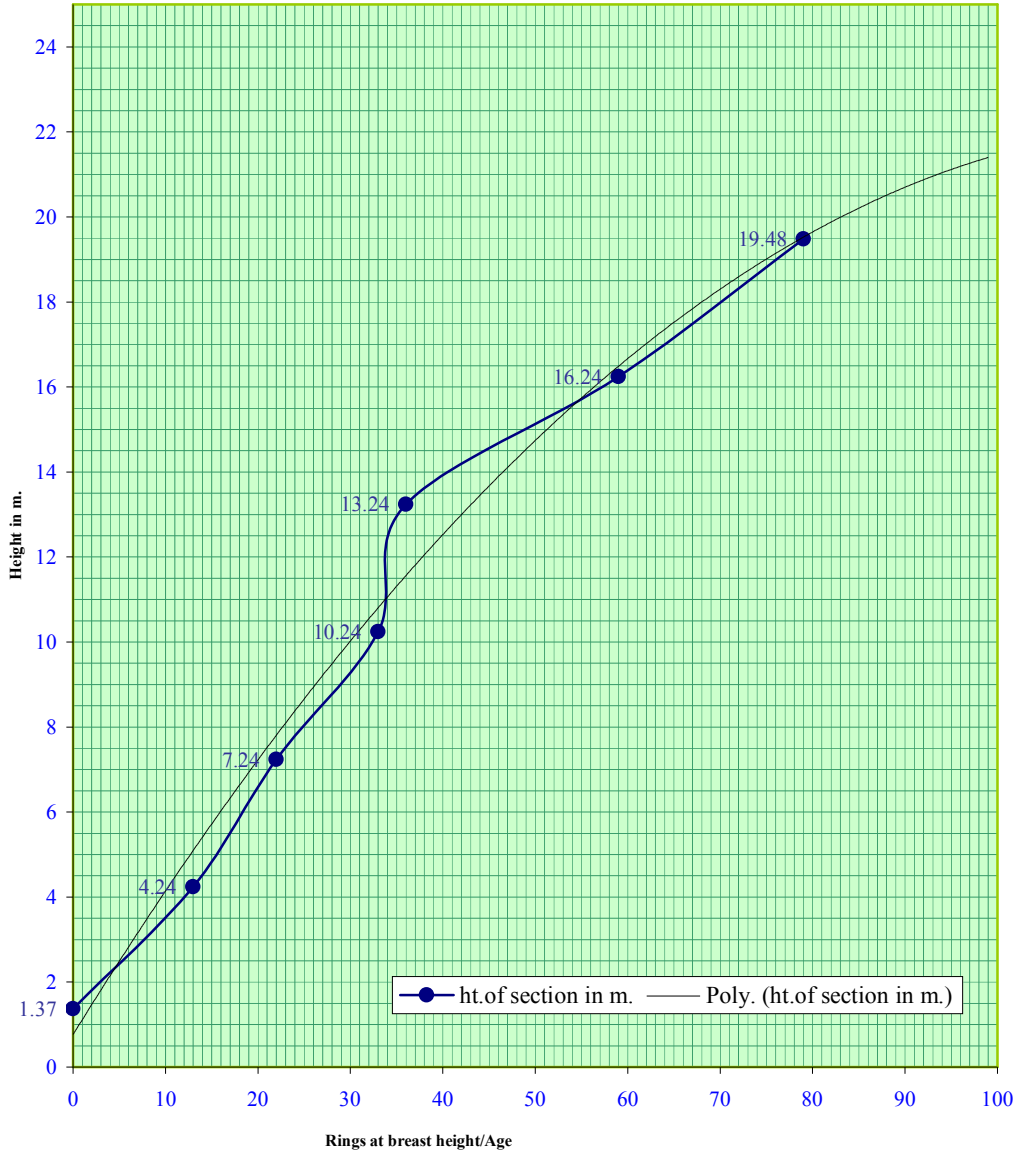
**Curve VI: Twice bark thickness (B.T.)**

<b>D.U.B. in cm.</b>	<b>2xB.T. in cm.</b>
0	0
6.0	0.8
14.0	0.9
24.6	0.9
35.4	1.0
46.2	1.8

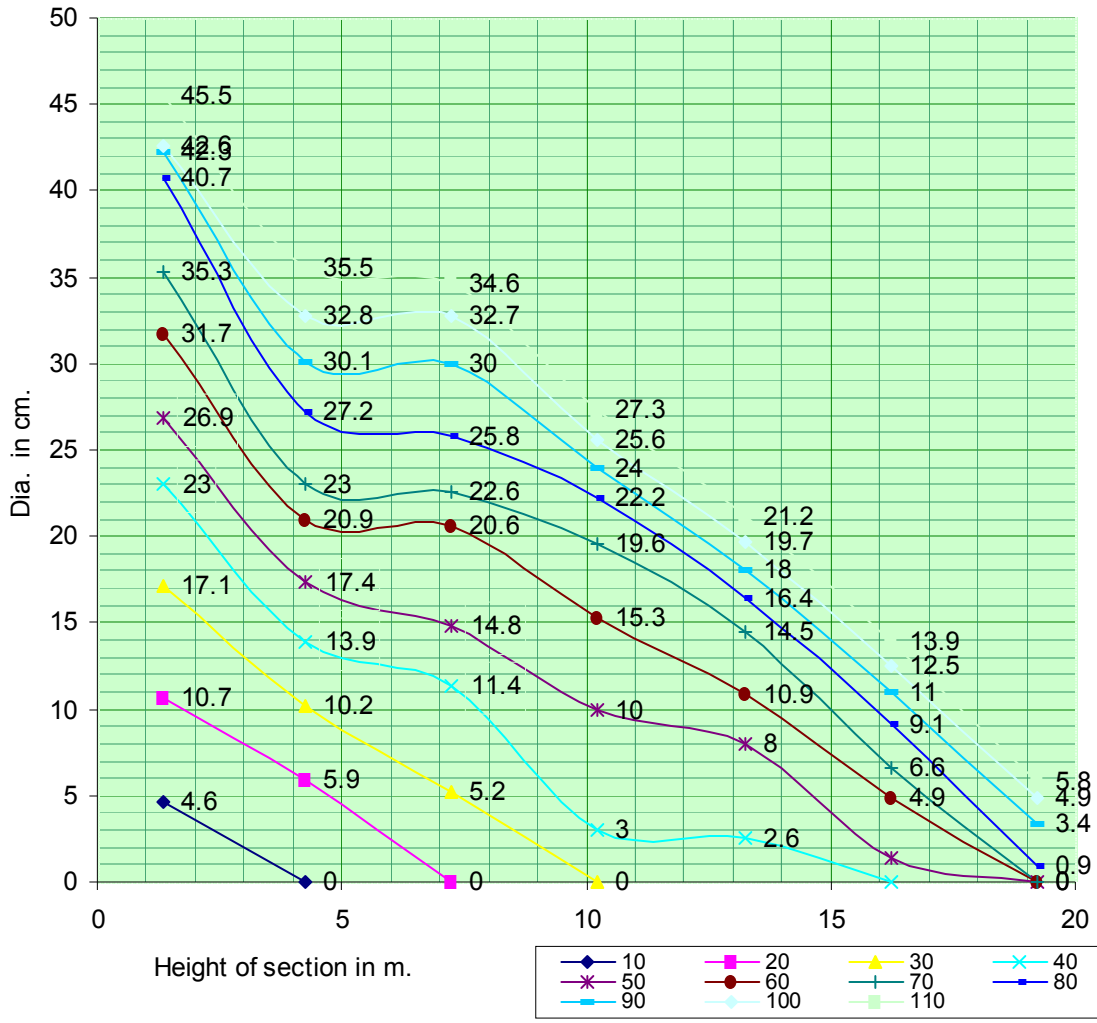
**Curve VIII: Diameter O.B./Age**

<b>Age in years</b>	<b>Diameter U.B. cm.</b>	<b>Twice Bark Thickness cm.</b>	<b>Diameter O.B. cm.</b>
0	0	0	0
10	4.6	0.4	5.0
20	10.7	0.9	11.6
30	17.1	0.9	18.0
40	23.0	0.9	23.9
50	26.9	0.9	27.8
60	31.7	0.9	32.6
70	35.3	1.0	36.3
80	40.7	1.3	42.0
90	42.3	1.5	43.8
100	42.6	1.5	44.1
110	45.5	1.7	47.2

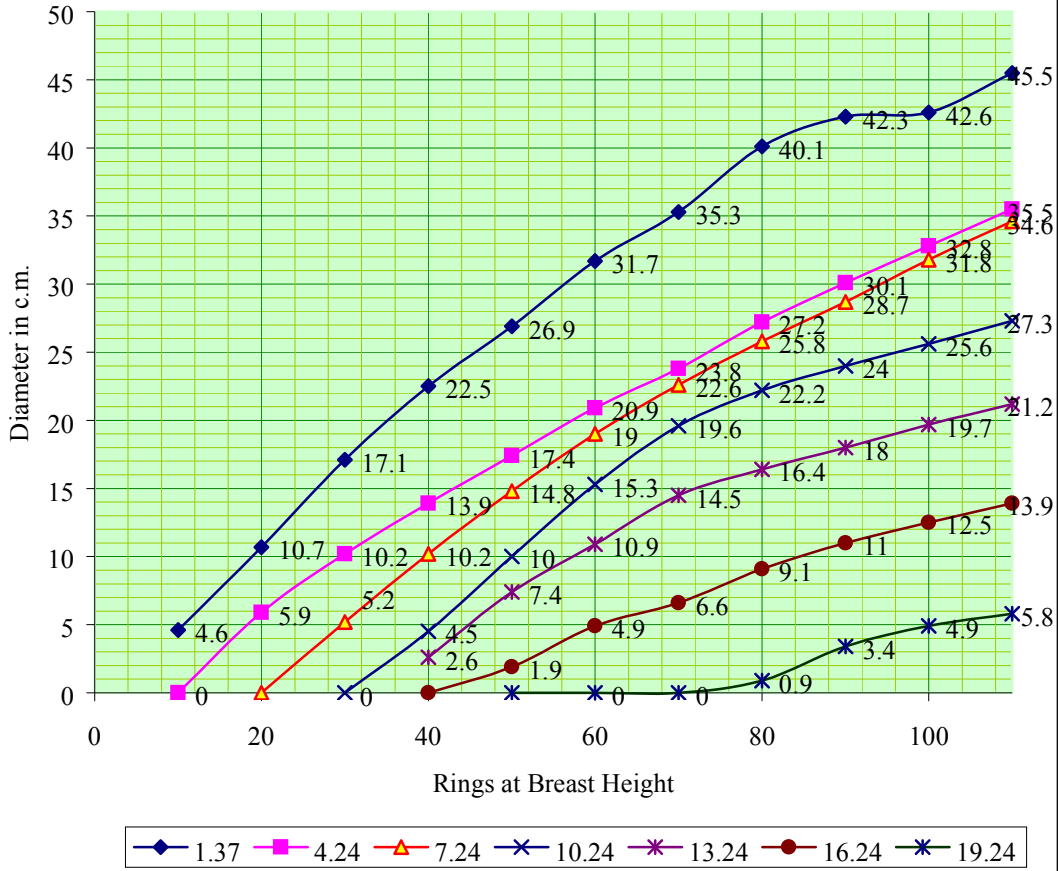
Stem Analysis: Curve I (Height/Age)  
 Species: Teak (*Tectona grandis*)  
 Site Quality: II/III Division : E.MELGHAT



Stem Analysis  
 Curve II: Diameter u.b./ Height (First Curve)      Species :Teak (*Tectona grandis*)  
 Site Quality II/III      Division:E.Melghat



**Stem Analysis**  
 Curve III: Diameter underbark /Height (Second Curve)  
 Species : Teak Site Quality II/III  
 Division: E. Melghat



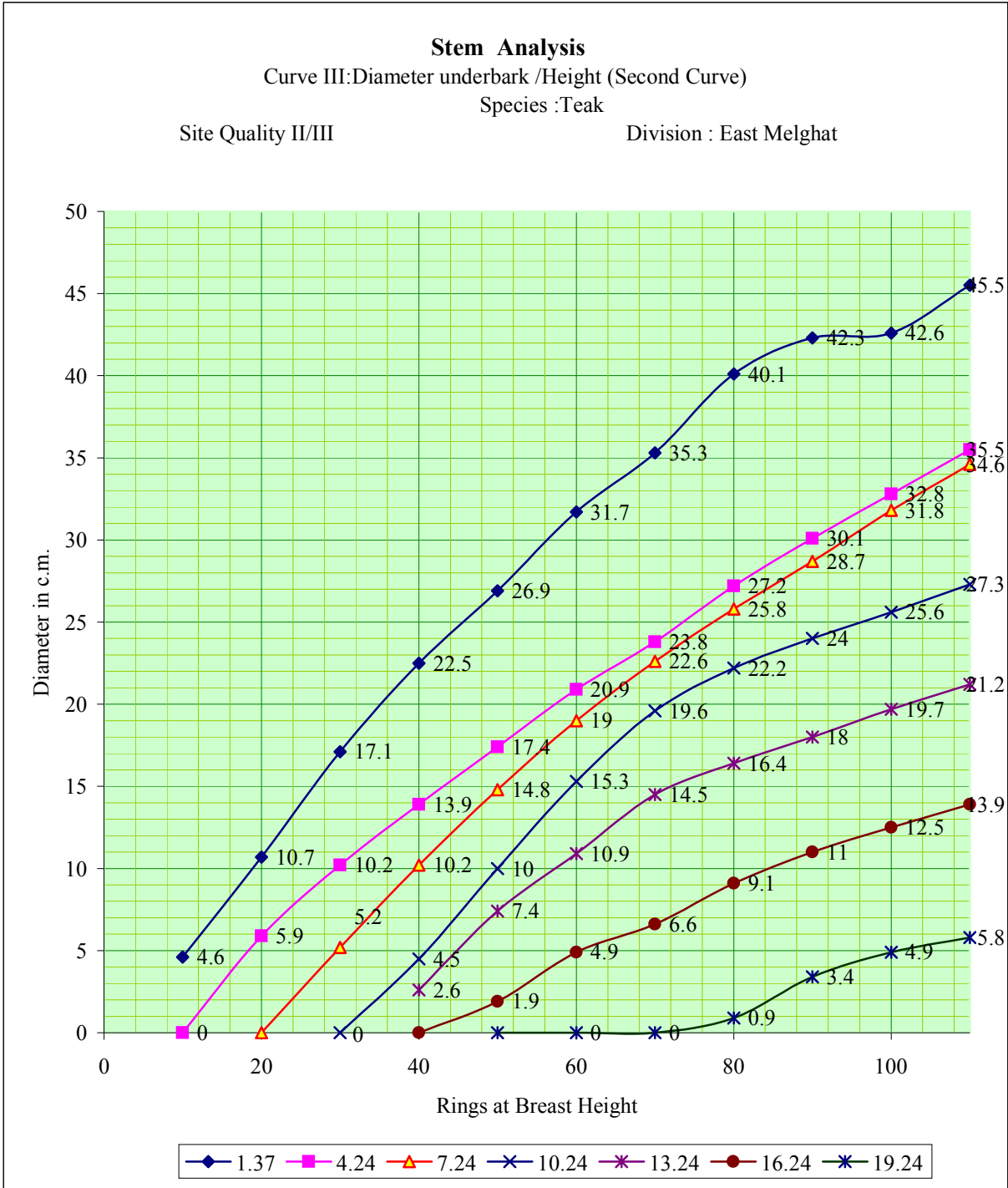
### Stem Analysis

Curve III: Diameter underbark /Height (Second Curve)

Species :Teak

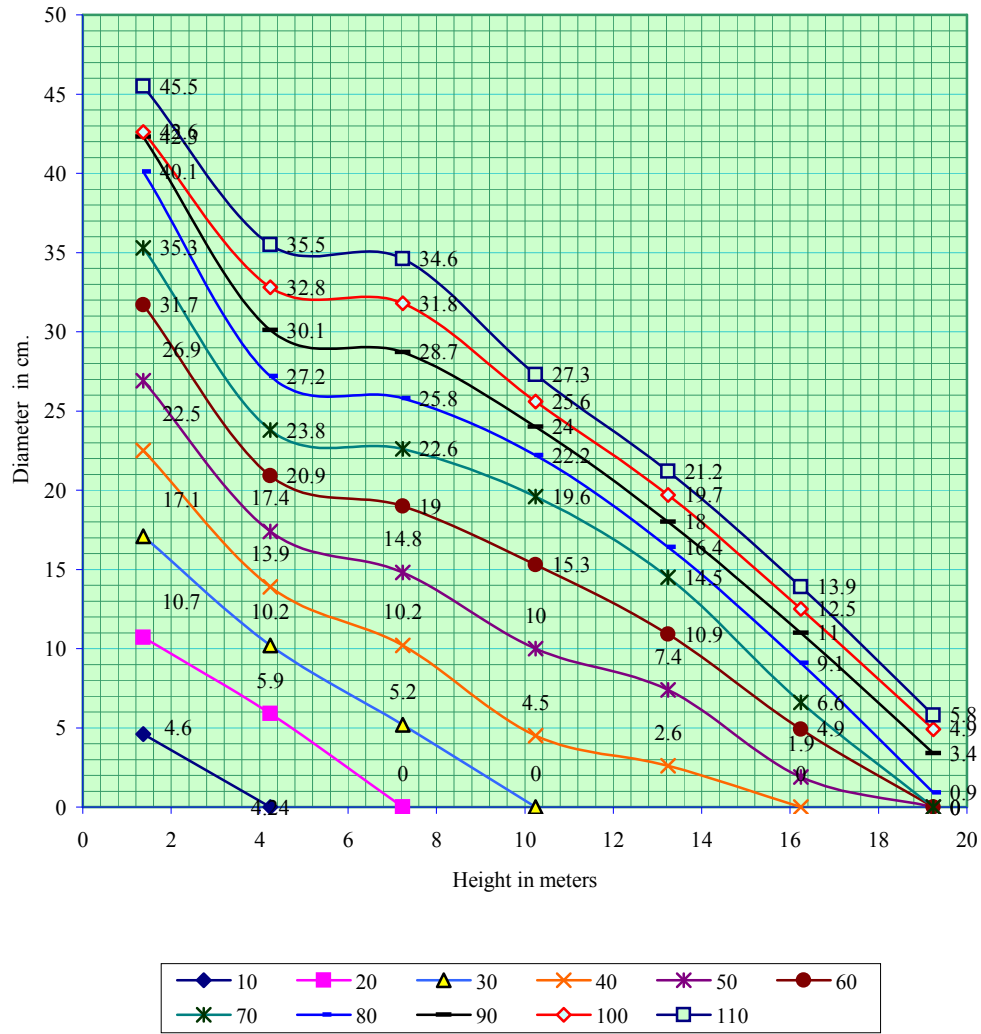
Site Quality II/III

Division : East Melghat



### Stem Analysis

Curve IV: Diameter U.B./Height in m.(Final curve)  
 Species:Teak (*Tectona grandis*)  
 Site Quality:II/III Division :East Melghat



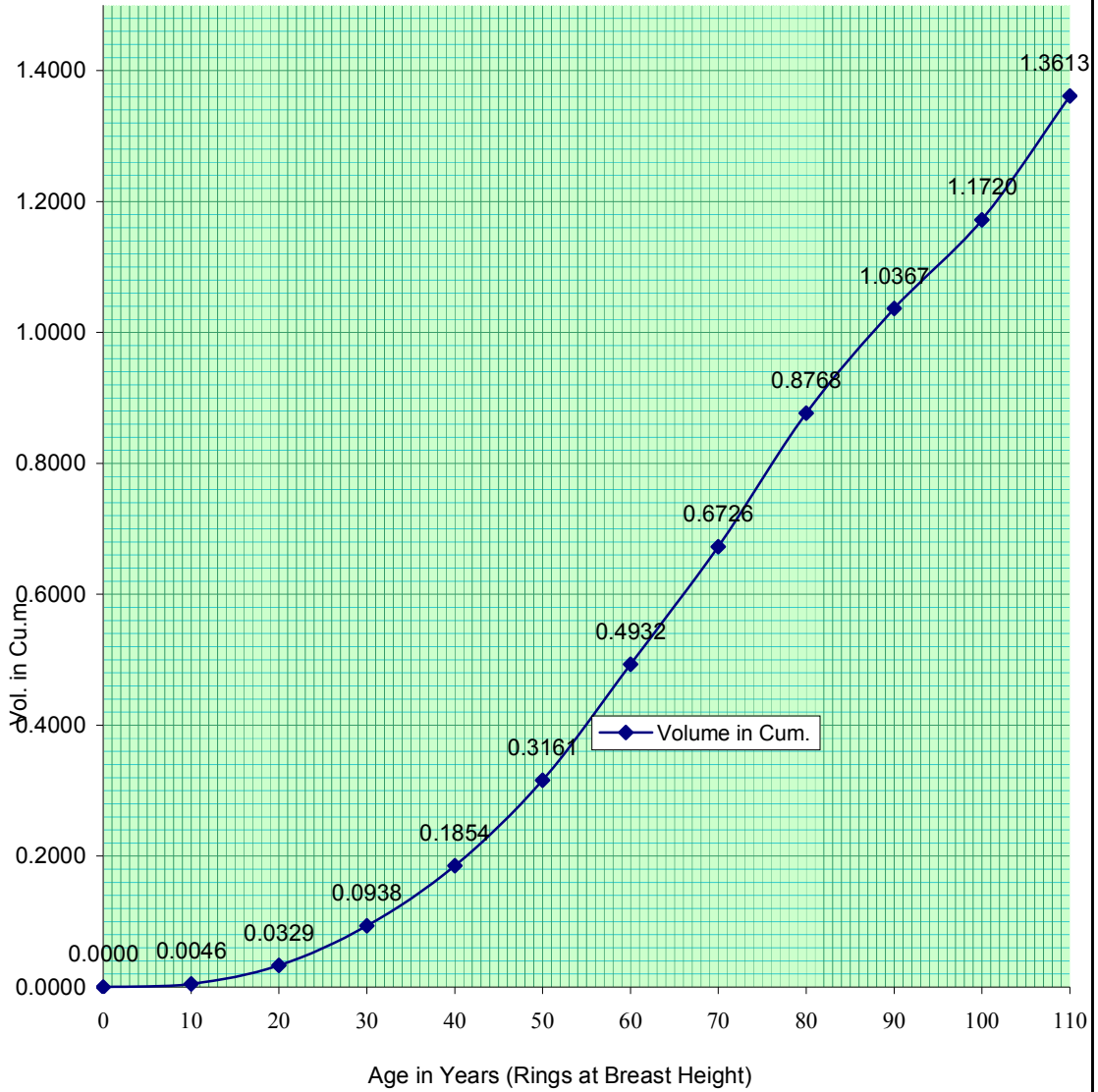
### Stem analysis

Curve V : Age/Volume Curve

Species : Teak (*Tectona grandis*)

Site Quality : II / III

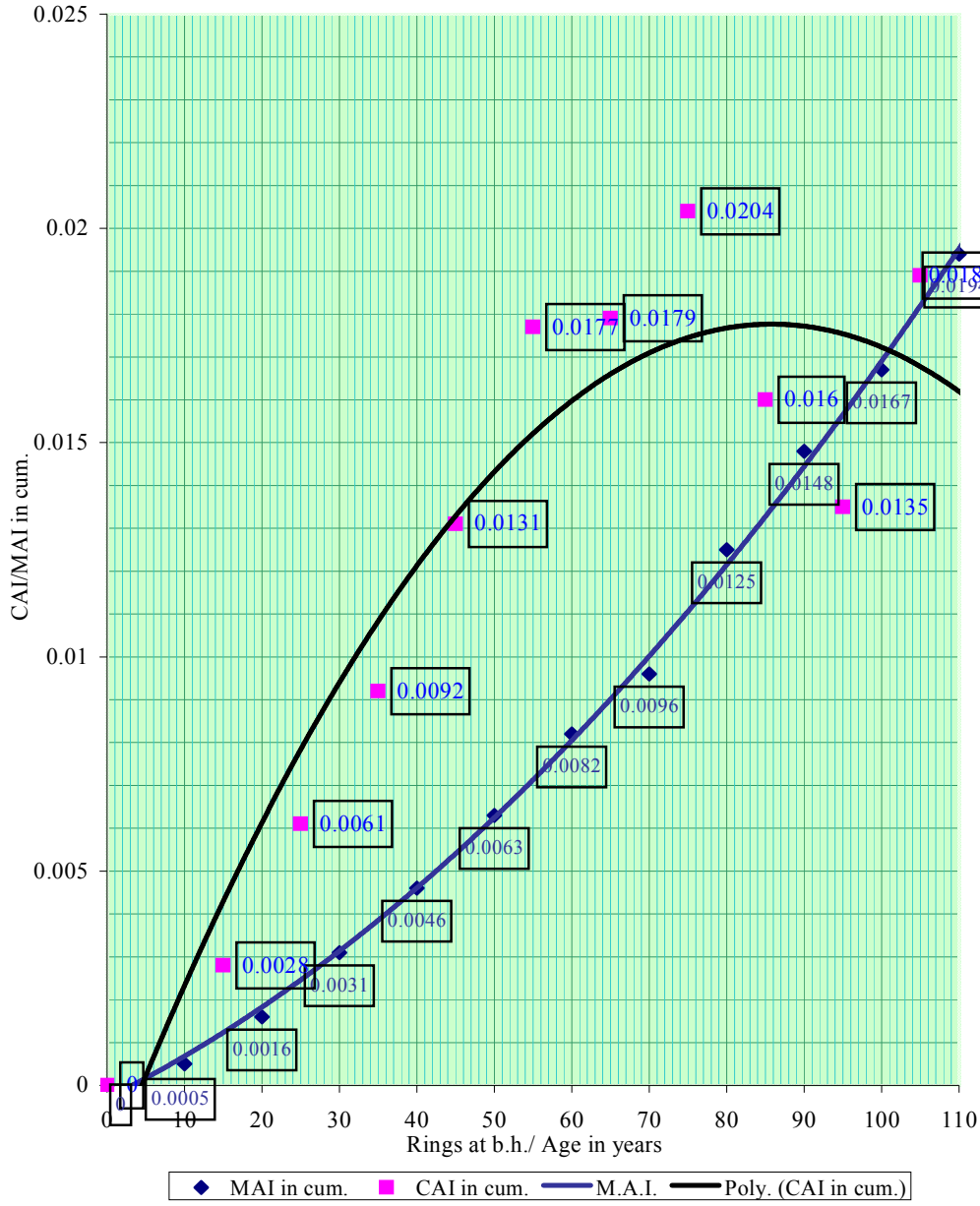
Division : East Melghat



**Stem Analysis**  
 CAI / MAI Curves  
 Species: Teak

Site Quality :II/III

Division: East Melghat



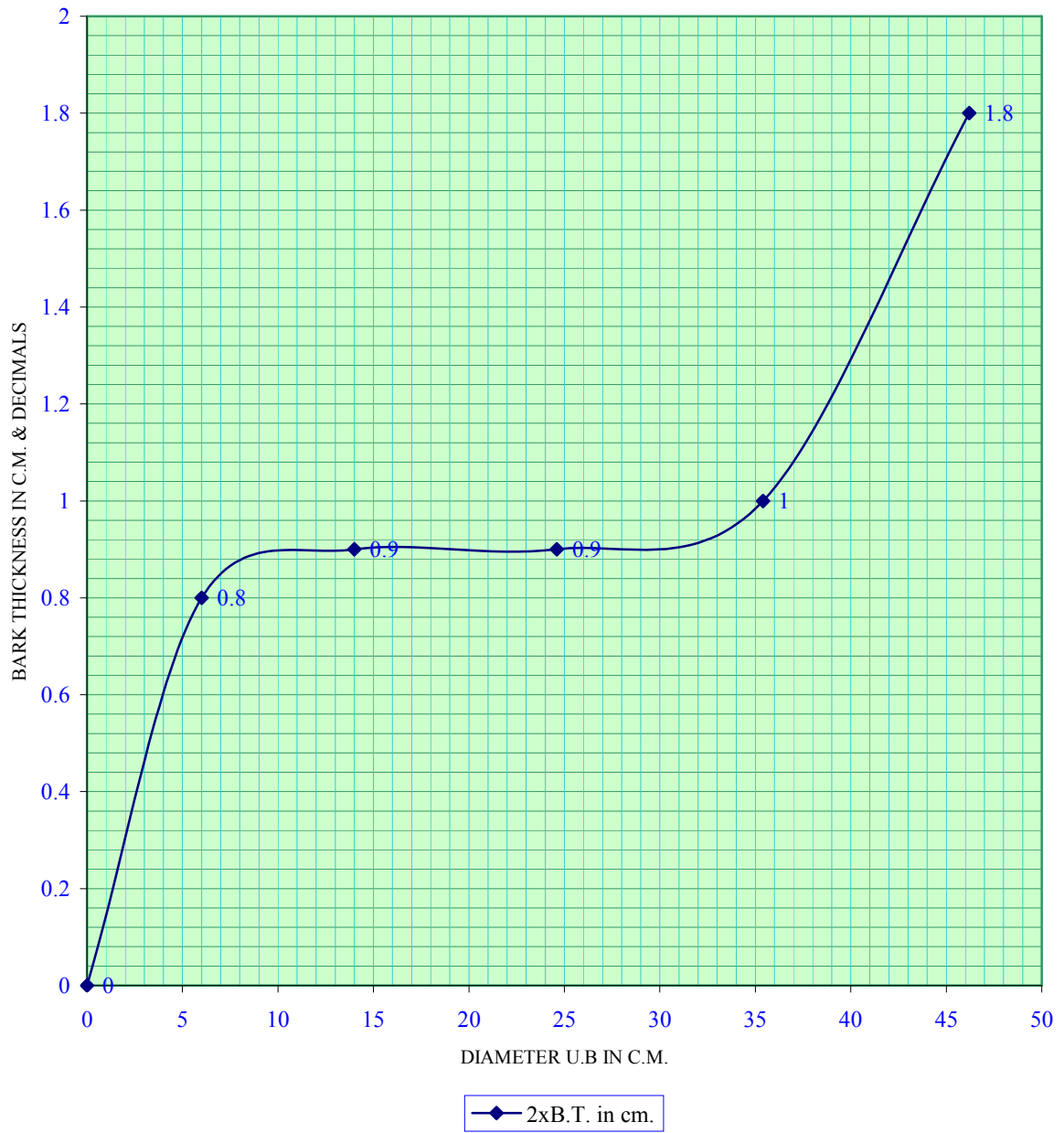
### Stem Analysis

Curve VI: Twice bark thickness (B.T.)

Species : Teak (*Tectona grandis*)

Site Quality : II/III

Division: East Melghat.



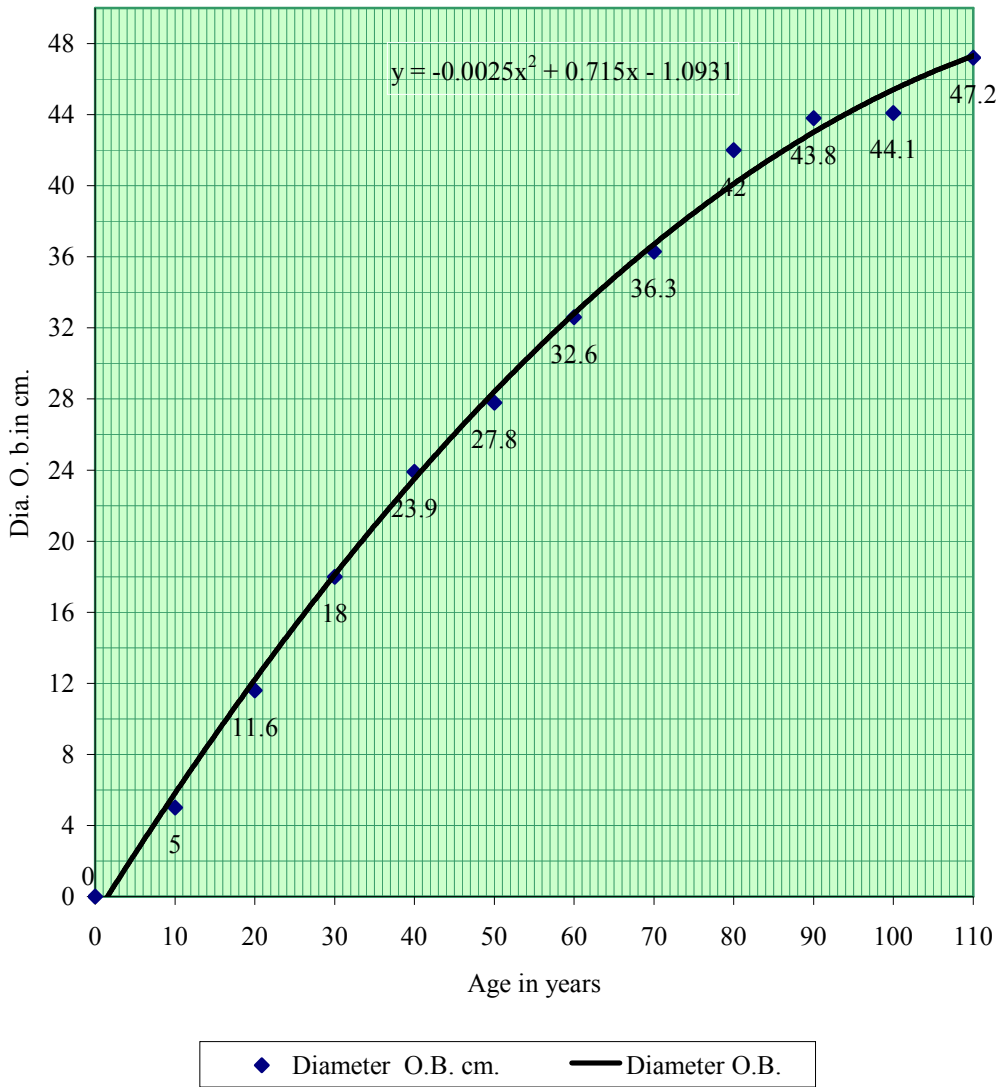
**Stem Analysis**

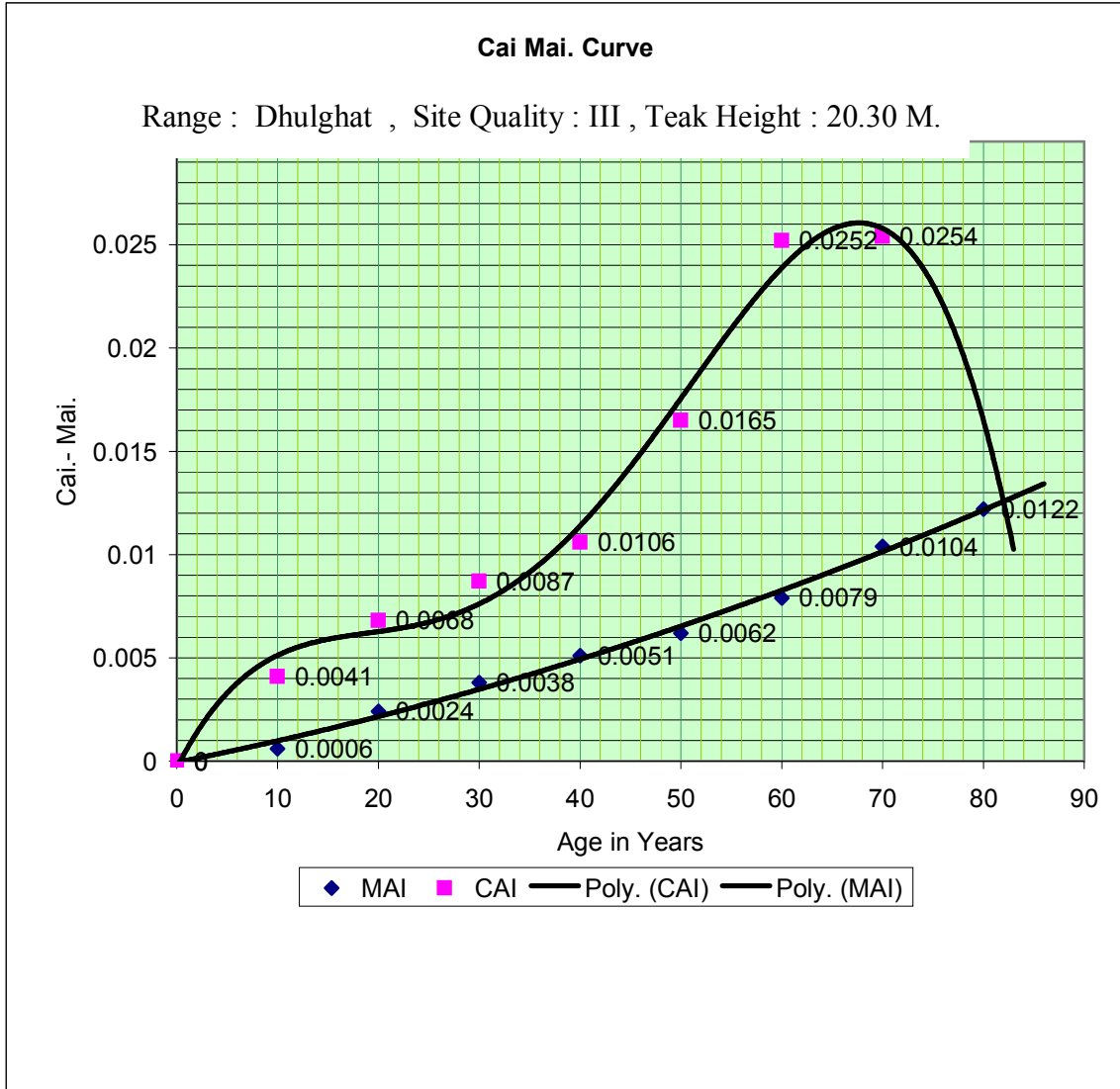
Curve VIII:Diameter O.B./Age

Species :Teak (*Tectona grandis*)

Site Quality:II/III

Division:East Melghat





**Table Showing Stem Analysis Of Teak For Site Quality – III**

Age in years	D.B.H.O.B. in cm	G.B.H. O.B. in cm	Ht. In Mt.	Volume per tree cm	MAI Cum/year	CAI Cum/year
10	6.3	19.8	2.4	0.0103	0.0010	0.0015
20	10.7	33.6	7.5	0.0400	0.0020	0.0041
30	13.9	43.7	10.8	0.0930	0.0031	0.0062
40	16.3	51.2	12.8	0.1640	0.0041	0.0080
50	19.2	60.3	13.6	0.2531	0.0051	0.0085
60	22.0	69.1	14.7	0.3539	0.0059	0.0126
70	26.1	82.0	16.3	0.5065	0.0072	0.0189
80	32.3	101.5	18.0	0.7313	0.0091	0.0198
90	34.0	106.9	18.8	0.7600	0.0100	0.0092

**Appendix No. XLVI**

**Statement Showing The Outturn Of Non-Wood Forest Produce  
(Minor Forest Produce And Revenues Realised)**

Year	Name of Species	Out turn (Std. Bags)	Revenue realized in Rs.
90-91	<i>Tendu</i>	2,400.679	33,09,436
91-92		6,387.096	46,40,787
92-93		4,408.262	19,13,900
93-94		3,512.968	20,58,441
94-95		3,154.581	21,01,357
95-96		3,148.027	22,92,446
96-97		3,122.333	22,14,015
97-98		3,058.999	22,34,910
98-99		2,969.214	14,67,554
99-00		3,203.600	23,03,569
00-01		3,714.272	33,27,109
01-02		3,124.423	35,18,380
02-03		3,183.548	28,49,572
03-04		3,345.051	33,33,384
1990-91	Gum	151.54 Qtl.	14,100
1999-00 to 2003-04		-	No Collection
90-91	Hirda	780.05 Qtl.	3900.25
91-92		1879.27 Qtl.	9396.35
92-93		454.79 Qtl.	2273.35
93-94		137.94 Qtl.	689.70
1994-95 to 2003-04		-	Some of the revenue area included in the sanctuary



**Appendix No. XLVII**

**Statement Showing The Old Survey No. And Its Corresponding Survey  
No. Of Ektrikaran And Punnarmojani**

Sl. No.	Name Of Village	Old Survey No.	New Survey No.	Sl. No.	Name Of Village	Old Survey No.	New Survey No.	Sl. No.	Name Of Village	Old Survey No.	New Survey No.		
1	Ambapati	1	7	1	Ambapati	42	33	2	Sakhri Chikkhalpati	1	35		
		2	47			42	32			2	1		
		3	50			43	-			3	2		
		4	51			44	31			4	3		
		5	52			45	-			5	-		
		6	8			46	36			6	7		
		7	6			46	32			7	5		
		8	-			47	-			8	6		
		9	8			48	39			9	13		
		10	42			49	41			10	12		
		11	45			49	40			10	14		
		12	37			50	-			10	11		
		12	35			51	-			11	10		
		13	48			52	26			12	9		
		14	34			53	21			13	8		
		15	-			53	27			14	32		
		16	-			54	-			15	31		
		17	53			55	29			16	30		
		18	-			56	30			17	27		
		19	3			57	28			17	28		
		20	-			58	15			17	29		
		21	94			58	16			18	15		
		22	9			58	18			19	16		
		23	10			58	17			20	4		
		24	-			58	19			21	34		
		25	11			59	12			22	26		
		26	13			60	20			22	25		
		27	-			60	-			24	28		
		28	5			60	-			25	23		
		29	-			60	-			26	22		
		30	-			60	-			27	33		
		31	-			60	46			28	21		
		32	2			60	-			29	20		
		33	-			60	-			30	13		
		34	1			60	49			31	17		
		35	56			60	55			32	19		
		36	-			-	54			3	Chouryamal	1	32
		37	57			-	43					1-Feb	31
		38	23			60	-					2-Feb	30
		39	-			60	-					3	29
		40	24			60	-					4	28
		41	-			60	44					4	27
42	25	60	5	5	26								
Sl. No.	Name Of Village	Old Survey No.	New Survey No.	Sl. No.	Name Of Village	Old Survey No.	New Survey No.	Sl. No.	Name Of Village			Old Survey No.	New Survey No.

3	Chouryamal	6	24	4	Tekda- Nagzira	6	-	4	Tekda- Nagzira	56/1	38	
		7	25			7	32			56/2	69	
		7	23			8	33			56/3	-	
		8	34			7	31			57	70	
		8	35			7	29			58	19	
		9	23			8	-			-	-	
		10	22			9	34			59	18	
		11	21			10	-			60	8	
		12	26			11	38			61	-	
		12	12			12	-			62/2	17	
		13	13			13	42			62	16	
		14	38			14	41			62	15	
		15	-			-	-			63	10	
		16	8			-	40			64	-	
		16	34			15	-			65	14	
		17	11			16	39			66	-	
		17	10			17	48			67	11	
		18	16			18	50			68	13	
		18	15			-	43			69	12	
		19	14			31	37			70	9	
		20	19			32	36			29/1	21	
		21	18			33	-			29/2	20	
		22	20			34	24			1	30	
		23	1			35	23			-	71	
		24	1			36	22			-	61	
		26	39			37	-			-	72	
		26	40			38	-			22	54	
		27	41			39	-			-	65	
		28	42			40	-			5 Dharamdoh	1	-
		29	43			41	55				2+3	28
		30	44			42	56				4,5,6	29
		30	7			42	64				7	27
		31	45			44	59				8	23
		31	6			44	58				9+13	22
		32	46			44	60				10+1	21
		33	-			45	62				12	20
		33	-			46	63				14/1	24
		34	2			47	66				14/2	26
		34	3			48	-				15	25
		35	1			49	67				16	19
36	4	50	2		17/1	18						
37	5	51	3		17/2	17						
38	1	52	4		17/3	16						
39	9	53	5		18	15						
40	7	-	-		19	13						
4	Tekda- Nagzira	1	27	-	-	20	33					
		2	26	-	1	21	32					
		3	28	54	6	22	31					
		4	25	55	7	23	30					
		5	35	-	-	24	35					

Sl. No.	Name Of Village	Old Survey No.	New Survey No.	Sl. No.	Name Of Village	Old Survey No.	New Survey No.	Sl. No.	Name Of Village	Old Survey No.	New Survey No.
5	Dharamdoh	25	34	5	Dharamdoh	59/3	53				
		26	12			60/1	60				
		27	11			60/2	61				
		28	10			61/1	56				
		29	14			61/2	57				
		30	-			62	58				
		31/1	111			63	59				
		31/2	112			64	63				
		31/2	110			65/1	62				
		28	9			65/2	67				
		31/3	113			66	68				
		32	114			66	93				
		33	108			66	94				
		33	109			67	59				
		34/1	106			63	50				
		34/2	105			69	39				
		35	115			70	42				
		35	107			70	43				
		37/1	104			70	44				
		37	-			70	45				
		38	103			70	46				
		36	117			70	47				
		41/1	102			86/4	79				
		41/2	101			87	74				
		42,43,44	99			88	81				
		45	98			89	84				
		46	100			89	83				
		47	97			89	86				
		48/1	96			89	85				
		48/2	3			89	87				
		49	-			89	88				
		49	4			89	1				
		49	7			-	116				
		49	2			-	88				
		49	6			-	82				
		49	5			-	80				
		49	95								
		50	-								
		51	41								
		52	40								
		53	-								
		54	36								
		54	37								
		55+56	38								
		57	51								
		57	52								
		53	-								
59/1	55										
59/2	54										



**Appendix No. XLVIII**

**Statement Showing The Annual Out-Turn Of Timber And Firewood  
and Revenue Realized.**

Sr. No.	Year	Teak Cu.m.	Teak Poles Cu.m.	Haldu Round Cu.m.	Sajad Round Cu.m.	Adjat Cu.m.	Total
1	1991-92	1,584.110	47.788	38.323	44.481	-	1,714.702
2	1992-93	264.719	82.879	9.577	7.976	-	365.151
3	1993-94	2,536.241	54.008	88.302	71.142	-	2,749.693
4	1994-95	5,526.246	97.002	652.919	392.862	6.365	6,675.394
5	1995-96	2,068.560	70.580	139.128	97.442	8.430	2,384.140
6	1996-97	2,288.965	99.143	339.570	142.041	18.320	2,888.039
7	1997-98	4,633.141	104.695	647.593	182.653	4.228	5,572.310
8	1998-99	2,457.460	63.449	328.648	148.024	-	2,997.581
	FLCS	333.033	4.768	69.766	20.879	1.206	429.652
9	1999-00	2,757.636	86.780	237.146	184.267	1.818	3,267.647
	FLCS	607.787	7.997	19.734	38.107	-	673.625
10	2001-02	376.147	631 qty.	29.730	-	-	405.877
11	2002-03	383.578	533 qty.	29.231	-	-	412.809

**Appendix No. XXXI (B)**

Sr. No.	Year	Revenue in Rs.				
		Teak Timber	Haldu Timber	Sajad Timbr	Adjat Timbert	Teak pole
1	1991-92	NA	NA	NA	NA	NA
2	1992-93	NA	NA	NA	NA	NA
3	1993-94	NA	NA	NA	NA	NA
4	1994-95	NA	NA	NA	NA	NA
5	1995-96	NA	NA	NA	NA	NA
6	1996-97	NA	NA	NA	NA	NA
7	1997-98	4,92,54,590	37,37,500	6,37,580	-	13,88,015
8	1998-99	6,04,09,140	5,051,350	1,74,475	625	4,33,600
9	1999-00	5,26,39,910	11,62,310	1,67,380	200	1,82,295
	FLCS	26,64,050	1,52,875	6,900	-	3,000
10	2000-01	1,08,72,200	3,82,005	2,110	-	11,410
	FLCS	50,71,350	92,450	30,107	1307	8,575
11	2001-02	-	-	-	-	-
	FLCS	63,39,136	7,225	-	-	1,04,017
12	2002-03	64,26,285	68,520	-	16,438	3,51,615
	FLCS	60,37,385	1,15,700	22,410	-	88,785
13	2003-04	10,42,881	-	-	17,730	95,900
	FLCS	19,03,270	3275	13,325	10,550	20,290

**NA- Not Available**



## Appendix No. XLIX

### List Of Erstwhile Forest Villages

Sr. No.	Village Names	Disforested Area in Ha	Sr. No.	Village Names	Disforested Area in Ha
1	Bori	94.16	28	Bela	120.90
2	Tetu	79.08	29	Salona	467.09
3	Churni	66.66	30	Masondi	81.81
4	Khatkali	95.48	31	Lonazari	261.97
5	Shahapur	246.02	32	Bhawai	42.71
6	Lawada	91.11	33	Bhulori	198.71
7	Aladoh	88.98	34	Lawada	81.01
8	Mojri	73.38	35	Ghatang	37.63
9	Baglinga	211.06	36	Madki	193.27
10	Amzari	251.66	37	Manbhang (Bhilkheda)	101.66
11	Adnadi	215.45	38	Khongada	85.72
12	Chichati	169.57	39	Kakadari	61.85
13	Jaitadehi	86.80	40	Khirpani	39.87
14	Jambli	116.14	41	Pandharakhadak	32.15
15	Kamapur	164.87	42	Pipadari	55.53
16	Jamunnala	62.27	43	Sawarpani	24.49
17	Motha	672.56	44	Billu (Butida)	108.94
18	Bordha	104.68	45	Bodu	62.86
19	Butida	136.61	46	Lakhewada	63.67
20	Karanj	142.25	47	Chibita	85.81
21	Ektai	158.25	48	Biba	178.25
22	Salita	74.24	49	Rahu	83.09
23	Bhandum	74.46	50	Khari	290.28
24	Kohana	119.80	51	Hirda	89.07
25	Dhomanipatha	36.79	52	Tembru	85.93
26	Bihali	79.96	53	Pipalya	71.84
27	Bhandri	71.00		<b>Total</b>	<b>6820.92</b>



**Appendix No. L**

**Area Transferred To FDCM**

<b>Range</b>	<b>Compt. No.</b>	<b>Type</b>	<b>Area</b>
-	-Nil-	-	-



## Appendix No. LI

### List Of Area Disforested

Year	Notification Nos.	Area in hectare		Area in hectare as N. No. FLD-3185/9410, dated 17.10.87	Remarks
		Afforestation	Disforestation		
1	2	3	4	5	6
1886	No.3,dated 4 <sup>th</sup> January 1886		47.35	-	<i>Gugamal Reserve</i>
1886	No. 185,dated 16 <sup>th</sup> August 1886		15.78	-	<i>Gugamal Reserve</i>
1902	Nos. 52,53,dated 13 <sup>th</sup> March 1902		257.78	-	<i>Chikhaldara Reserve</i>
1902	No. 245,dated 29 <sup>th</sup> September 1902		65.96	-	<i>Chikhaldara Reserve</i>
1903	No. 211,dated 1 <sup>st</sup> August 1903		1.21	-	<i>Gugamal Reserve</i>
1911	No. 615,dated 6 <sup>th</sup> July 1911		27.11	-	<i>Khirpani Reserve</i>
1928	No. 283-74-XV,dated 29 <sup>th</sup> February 1928		76.08	-	<i>Chikhaldara Reserve</i>
1939	No. 865-828-XI, dated 28 <sup>th</sup> August 1939		0.15	-	<i>Chikhaldara Reserve</i>
1958	No. FLD-1258-24563,dated 5 <sup>th</sup> December 1958		2.12	-	<i>Chikhaldara Reserve</i>
1970	No. 31691-79966-W-(i), dated 19 <sup>th</sup> May 1970		47.81	136.61	<i>Butida F.V. Comptt. Nos.340 to342,347 &amp; 352 of Bairagarh Reserve</i>
	-do-		-	108.94	<i>Bilu(Butida)F.V. Comptt. Nos.340 to342,347 &amp; 352 of Bairagarh Reserve</i>
	-do-		31.11	62.86	<i>Bodu F.V. Comptt. Nos. 342,344,346,347 of Bairagarh Reserve</i>
	-do-		32.26	63.67	<i>Lakhewada F.V. Comptt. Nos.349 to351 &amp; 359 of Bairagarh Reserve</i>
	-do-		38.03	85.81	<i>Chobita F.V. Comptt. Nos.358,360 to 363 of Bairagarh Reserve</i>

1	2	3	4	5	6
	-do-		82.70	178.25	<i>Biba</i> F.V. Comptt. Nos.362,364,366 to368,372 & 373 of <i>Bairagarh</i> Reserve
	-do-		69.76	83.09	<i>Rahu</i> F.V. Comptt. Nos.367,369,370,393 to 395 & 410 of <i>Bairagarh</i> Reserve
	-do-		165.23	290.28	<i>Khari</i> F.V. Comptt. Nos.368,371 to 374,377,380 & 384 of <i>Bairagarh</i> Reserve
	-do-		39.95	89.07	<i>Hirda</i> F.V. Comptt. Nos.370,380,381 & 392 of <i>Bairagarh</i> Reserve
	-do-		37.17	85.93	<i>Tembhru</i> F.V. Comptt. Nos.381 to 383,387 & 388 of <i>Bairagarh</i> Reserve
	-do-		24.07	71.84	<i>Pipliya</i> F.V. Comptt. Nos. 383 to 387 of <i>Bairagarh</i> Reserve
	-do-		47.81	104.68	<i>Bordha</i> F.V. Comptt. Nos.389 to 391,439& 440 of <i>Bairagarh</i> Reserve
	-do-		63.70	113.01	<i>Maritakhera</i> F.V. Comptt. Nos.419,420 of <i>Bairagarh</i> Reserve
	-do-		74.18	142.23	<i>Karanjkhera</i> F.V. Comptt. Nos.431 to 434,436,443 to 445 of <i>Bairagarh</i> Reserve
	-do-		112.32	215.37	<i>Ektai</i> F.V. Comptt. Nos.441,445,446,448 to 451 & 462 of <i>Bairagarh</i> Reserve
	-do-		37.34	74.24	<i>Salita</i> F.V. Comptt. Nos.452 to 454 of <i>Bairagarh</i> Reserve
	-do-		13.59	74.46	<i>Bhandum</i> F.V. Comptt. Nos.454 to 456 of <i>Bairagarh</i> Reserve
	-do-		82.04	119.80	<i>Kohana</i> F.V. Comptt. Nos. 1,2,64 &65 of <i>Motha &amp; Kohana</i> Reserve

1	2	3	4	5	6
	-do-		18.38	36.79	<i>Dhonniphata</i> F.V. Comptt. Nos. 2 & 3 of <i>Motha</i> Reserve
	-do-		61.24	79.96	<i>Behali</i> F.V. Comptt. Nos. 2,9,63,64,66,67 & 68 of <i>Motha &amp; Kohana</i> Reserve
	-do-		47.00	71.00	<i>Bhandri</i> F.V. Comptt. Nos. 3,4,7,8 of <i>Motha</i> Reserve
	-do-		24.40	120.90	<i>Bela</i> F.V. Comptt. Nos. 8 to 11,60 & 62 of <i>Motha &amp; Kohana</i> Reserve
	-do-		190.13	467.09	<i>Salona</i> F.V. Comptt. Nos. 10,11,53 to 56 & 60 of <i>Motha &amp; Kohana</i> Reserve
	-do-		48.47	81.81	<i>Masondi</i> F.V. Comptt. Nos. 49 to 51 & 89 of <i>Chikhaldara &amp; Bairagarh</i> Reserve
	-do-		-	261.97	<i>Lonazari (Masondi)</i> F.V. Comptt. Nos. 49 to 51 & 89 of <i>Chikhaldara &amp; Bairagarh</i> Reserve
	-do-		42.74	42.71	<i>Bhawai</i> F.V. Comptt. Nos. 76,77,82 to 84 of <i>Bairagarh</i> Reserve
	-do-		45.19	198.71	<i>Bhulori</i> F.V. Comptt. Nos. 70 & 72 of <i>Kohana</i> Reserve
	-do-		26.69	81.01	<i>Lawada</i> F.V. Comptt. Nos. 68,69 & 71 of <i>Kohana</i> Reserve
	-do-		19.65	37.36	<i>Ghatang</i> F.V. Comptt. Nos. 57,58 & 73 of <i>Kohana</i> Reserve
1970	No. FLD-3169-79966-W-(3), dated 25 <sup>th</sup> June 1970.		25.80	85.72	<i>Khongada</i> F.V. of <i>Gugamal</i> Reserve
	-do-		30.30	61.85	<i>Kakadari</i> F.V. of <i>Khirpani</i> Reserve
	-do-		52.41	39.87	<i>Khirpani</i> F.V. of <i>Khirpani</i> Reserve
	-do-		67.14	32.15	<i>Phandrakhadak</i> F.V. of <i>Khirpani</i> Reserve

1	2	3	4	5	6
	-do-		39.63	55.53	<i>Pipadari F.V. of Khirpani Reserve</i>
	-do-		58.14	24.49	<i>Sawarpani F.V. of Khirpani Reserve</i>
	-do-		130.69	94.16	<i>Bori F.V. of Chikhaldara Reserve</i>
	-do-		65.34	79.08	<i>Tetu F.V. of Chikhaldara Reserve</i>
	-do-		35.04	66.66	<i>Churni F.V. of Chikhaldara Reserve</i>
	-do-		61.41	95.48	<i>Mariyampur (Khatkali) F.V. of Chikhaldara Reserve</i>
	-do-		98.43	246.02	<i>Shahapur F.V. of Chikhaldara Reserve</i>
	-do-		49.78	91.11	<i>Lawada F.V. of Chikhaldara Reserve</i>
	-do-		47.98	88.98	<i>Aladoh F.V. of Chikhaldara Reserve</i>
	-do-		24.40	73.38	<i>Mozari F.V. of Chikhaldara Reserve</i>
	-do-		68.29	211.06	<i>Baglinga F.V. of Chikhaldara Reserve</i>
	-do-		121.68	251.66	<i>Amazari F.V. of Chikhaldara Reserve</i>
	-do-		120.04	215.45	<i>Adnadi F.V. of Motha Reserve</i>
	-do-		83.85	169.57	<i>Chichati F.V. of Motha Reserve</i>
	-do-		50.28	86.80	<i>Jaitadehi F.V. of Motha Reserve</i>
	-do-		103.75	116.14	<i>Jambli F.V. of Motha Reserve</i>
	-do-		64.85	164.87	<i>Kamapur F.V. of Motha Reserve</i>
	-do-		90.73	62.27	<i>Jamunnala F.V. of Motha Reserve</i>
	-do-		272.76	672.56	<i>Motha F.V. of Motha Reserve</i>
	-do-		103.67	193.27	<i>Madki F.V. of Motha Reserve</i>
	-do-		145.59	101.66	<i>Manbhang (Bhilkheda) F.V. of Motha Reserve</i>



**Appendix No. LII**

**List Of Area Diverted Statutorily Approved By  
Govt. Of India Under FCA-1980**

<b>Sr. No.</b>	<b>Village Name</b>	<b>Survey No.</b>	<b>Total area in Ha</b>	<b>Forest Area in Ha Under Project</b>	<b>Remarks</b>
1	Jaitadehi	2	0.26	0.26	Sapan Nadi Project
		3	0.46	0.46	
		6	0.42	0.29	
		9	90.15	6.15	
		17	0.84	0.84	
	Sapan Nadi, Jaitadehi	18	22.96	11.48	
		28	0.22	0.22	
		30	0.14	0.14	
		31	0.99	0.99	
		35	2.79	1.40	
	Bhandri Dhomani Phata	12	3.24	1.24	
		59	2.62	2.00	
		8	85.39	3.39	
		12	15.52	0.75	
		64	2.56	0.25	
		21	26.50	5.50	
		18	22.96	11.48	
		<b>Total</b>	<b>46.84</b>		
2	11 K.V. Electric Line	-	-	0.90	
			<b>Total</b>	<b>0.90</b>	
3	Chikhaldara Pipe Line	-	-	0.225	
			<b>Total</b>	<b>0.225</b>	



## Appendix No. LIII

### List Of Medicinal Plants

Habit = h-herb, s- shrub, cl- climber, t- tree. Medicinal system (Med Syst.) = A- Ayurved,  
U- Unani, S - Siddha, F- Folk, T- Tibetan, V- Vanerid

S. No.	Genus	species	Family	Habit	Med Sys	Local Name
1	2	3	4	5	6	7
1	<i>Acacia</i>	<i>catechu</i>	Mimosaceae	t	AUS	Khair
2	<i>Acacia</i>	<i>leucophloea</i>	Mimosaceae	t	AFS	Hivar
3	<i>Acacia</i>	<i>pennata</i>	Mimosaceae	c	ASF	Chilati
4	<i>Acalypha</i>	<i>indica</i>	Euphorbiaceae	h	A	-
5	<i>Acanthospermum</i>	<i>hispidum</i>	Asteraceae	h	F	Mothe Gokharu
6	<i>Achyranthus</i>	<i>aspera</i>	Amaranthaceae	h	A	Aghada
7	<i>Aegle</i>	<i>marmelos</i>	Rutaceae	t	A	Bel
8	<i>Ageratum</i>	<i>conyzoides</i>	Asteraceae	h	AFS	-
9	<i>Albizia</i>	<i>odoratissima</i>	Mimosaceae	t	A	Pandhara Siris
10	<i>Alysicarpus</i>	<i>longifolius</i>	Fabaceae	h	F	-
11	<i>Alysicarpus</i>	<i>procumbens</i>	Fabaceae	h		Bhui Chitaka
12	<i>Alysicarpus</i>	<i>tetragonolobus</i>	Fabaceae	h		Bhuishevar
13	<i>Ammania</i>	<i>auriculata</i>	Lythraceae	h		Jangli Tokada
14	<i>Anagallis</i>	<i>pumila</i>	Primulaceae	h		
15	<i>Andrographis</i>	<i>echioides</i>	Acanthaceae	h	S	Bhuinimba
16	<i>Anisochilus</i>	<i>carnosus</i>	Lamiaceae	h	A	Chikhalghas
17	<i>Anogeissus</i>	<i>latifolius</i>	Combrataceae	t	A	Dhawada
18	<i>Aschynomene</i>	<i>indica</i>	Fabaceae	h	VS	Shevra
19	<i>Asparagus</i>	<i>racemosus</i>	Liliaceae	c	A	Satavari
20	<i>Aspidopterys</i>	<i>cordata</i>	Malphiaceae	c		-
21	<i>Atylosia</i>	<i>platycarpa</i>	Fabaceae	c	F	Turvel
22	<i>Atylosia</i>	<i>scarabaoides</i>	Fabaceae	h	F	Jangali tur
23	<i>Barleria</i>	<i>prattensis</i>	Acanthaceae	h	AVU	-
24	<i>Bauhinia</i>	<i>purpurea</i>	Caesalpinaceae	t	AVT	Kanchan
25	<i>Bauhinia</i>	<i>racemosa</i>	Caesalpinaceae	t	AUS	Bhosa
26	<i>Biophytum</i>	<i>candolleianum</i>	Oxalidaceae	h	AV	
27	<i>Biophytum</i>	<i>sensitivum</i>	Oxalidaceae	h	A	Lajwanti
28	<i>Bombax</i>	<i>ceiba</i>	Bombacaceae	t	AVU	Shemal
29	<i>Borreria</i>	<i>articularis</i>	Rubiaceae	h	F	-
30	<i>Boswelia</i>	<i>serrata</i>	Burseraceae	t	AUS	Salai
31	<i>Bridelia</i>	<i>retusa</i>	Euphorbiaceae	t	AFS	Kadka, Kalka
32	<i>Buchanania</i>	<i>lanzen</i>	Anacardiaceae	t	ATUS	Char
33	<i>Butea</i>	<i>monosperma</i>	Fabaceae	t	A	Palas
34	<i>Cajanus</i>	<i>scarabaoides</i>	Fabaceae	h		
35	<i>Careya</i>	<i>arborea</i>	Lecythidaceae	t	A	Kumbhi
36	<i>Cassia</i>	<i>absus</i>	Caesalpinaceae	h	A	-
37	<i>Cassia</i>	<i>fistula</i>	Caesalpinaceae	t	A	Bahawa
38	<i>Cassia</i>	<i>pumila</i>	Caesalpinaceae	h	F	-
39	<i>Cassia</i>	<i>tora</i>	Caesalpinaceae	h	A	Tarota

1	2	3	4	5	6	7
40	<i>Cayriatia</i>	<i>trifolia</i>	Vitaceae	c	AV	-
41	<i>Ceriscoides</i>	<i>turgida</i>	Rubiaceae	t	A	Pandhara Phendra
42	<i>Chlorodendron</i>	<i>serratum</i>	Verbenaceae	s	A	Bharanga
43	<i>Cissampelos</i>	<i>pareira</i>	Menispermaceae	c	A	
44	<i>Clematis</i>	<i>triloba</i>	Ranunculaceae	c	AFU	Ranchameli
45	<i>Cleome</i>	<i>viscosa</i>	Cleomaceae	h	AVU	Tiwali
46	<i>Clitoria</i>	<i>ternatea</i>	Fabaceae	h		-
47	<i>Cocculus</i>	<i>hirsutus</i>	Menispermaceae	c	A	Vasanvel
48	<i>Combretum</i>	<i>ovalifolium</i>	Combrataceae	cl-s		Piwalwel
49	<i>Commelina</i>	<i>hasskarlii</i>	Commelinaceae	h		-
50	<i>Cordia</i>	<i>macleodii</i>	Boraginaceae	t		Dahipalas
51	<i>Crotolaria</i>	<i>hirsuta</i>	Fabaceae	h		-
52	<i>Crotolaria</i>	<i>medicagenia</i>	Fabaceae	h		Pili
53	<i>Crotolaria</i>	<i>orixensis</i>	Fabaceae	h		Ghanphodi
54	<i>Crotolaria</i>	<i>pallida</i>	Fabaceae	h	F	
55	<i>Cucumis</i>	<i>callosus</i>	Cucurbitaceae	c	A	Tanman Ghogari
56	<i>Cucumis</i>	<i>prophertatum</i>	Cucurbitaceae	c		Kadu Indravan
57	<i>Cucumis</i>	<i>setosus</i>	Cucurbitaceae	c		-
58	<i>Dalbergia</i>	<i>lanceolaria</i>	Fabaceae	t	A	
59	<i>Dalbergia</i>	<i>paniculata</i>	Fabaceae	t	S	Phasi
60	<i>Dendrocalamus</i>	<i>strictus</i>	Poaceae	s		Bass
61	<i>Desmodium</i>	<i>gangeticum</i>	Fabaceae	s	A	Lepati
62	<i>Desmodium</i>	<i>latifolia</i>	Fabaceae	s		Lepati
63	<i>Desmodium</i>	<i>velutinum</i>	Fabaceae	s	AS	
64	<i>Digera</i>	<i>muricata</i>	Amaranthaceae	h		Tandulja
65	<i>Dioscorea</i>	<i>bulbifera</i>	Dioscoriaceae	c	A	Kadu Bayel
66	<i>Dioscorea</i>	<i>hispida</i>	Dioscoriaceae	c	AV	Baichandi
67	<i>Diospyros</i>	<i>melanoxyton</i>	Ebenaceae	t		Tembhurni
68	<i>Diplocyclus</i>	<i>palamatus</i>	Cucurbitaceae	c	AV	Shivalingi
69	<i>Dipteracanthus</i>	<i>prostratus</i>	Acanthaceae	h	F	-
70	<i>Dolichos</i>	<i>uniflorus</i>	Fabaceae	c		-
71	<i>Embelia</i>	<i>tsjeriam-cottam</i>	Myrsinaceae	s	AFV	Wavding, Waiwarange
72	<i>Embelica</i>	<i>officinalis</i>	Euphorbiaceae	t	A	Amla
73	<i>Euphorbia</i>	<i>geniculata</i>	Euphorbiaceae	h		Dudhi
74	<i>Euphorbia</i>	<i>hirta</i>	Euphorbiaceae	h	A	Dudhi
75	<i>Evolvulus</i>	<i>alisnoides</i>	Convolvulaceae	h	A	Shankapushpi
76	<i>Ficus</i>	<i>amplissima</i>	Moraceae	t	AV	Phepran
77	<i>Ficus</i>	<i>religiosa</i>	Moraceae	t	AFH	Pimpal
78	<i>Galactia</i>	<i>tenuiflora</i>	Fabaceae	h		-
79	<i>Garuga</i>	<i>pinnata</i>	Bursaraceae	t	A	Kekad
80	<i>Grewia</i>	<i>hirsuta</i>	Tiliaceae	s	AS	-
81	<i>Grewia</i>	<i>tiliaefolia</i>	Tiliaceae	t		Dhaman
82	<i>Habenaria</i>	<i>marginata</i>	Orchidaceae	h		-
83	<i>Haldina</i>	<i>cordifolia</i>	Rubiaceae	t	AF	Haldu

1	2	3	4	5	6	7
84	<i>Hemidesmus</i>	<i>indicus</i>	Periplocaceae	cl-s	A	Anant Vel, Anant Mul
85	<i>Hibiscus</i>	<i>lobatus</i>	Malvaceae	h		-
86	<i>Holarrhena</i>	<i>antidysenterica</i>	Apocynaceae	t	A	Kuda
87	<i>Indigofera</i>	<i>glandulosa</i>	Fabaceae	h		Barbada
88	<i>Ipomoea</i>	<i>muricata</i>	Convolvulaceae	c	F	Bhovra
89	<i>Ipomoea</i>	<i>pesti-gridis</i>	Convolvulaceae	cl-s	A FS	-
90	<i>Ixora</i>	<i>nigrcans</i>	Rubiaceae	t		Lokhandi
91	<i>Jasminum</i>	<i>roxburghianum</i>	Oleaceae	c		
92	<i>Justicia</i>	<i>diffusa</i>	Acanthaceae	h		-
93	<i>Justicia</i>	<i>simplex</i>	Acanthaceae	h	F	-
94	<i>Kydia</i>	<i>calycina</i>	Malvaceae	t	FS	Bothi
95	<i>Lagasca</i>	<i>molis</i>	Asteraceae	h		-
96	<i>Lagerstroemia</i>	<i>parviflora</i>	Lythraceae	t	AS	Lendya
97	<i>Lannea</i>	<i>coramandelica</i>	Anacardiaceae	t	A	Moin
98	<i>Lantana</i>	<i>camara</i>	Verbenaceae	s	F	Rhimonnia
99	<i>Leucas</i>	<i>aspera</i>	Lamiaceae	h	A	Dron Pushpi
100	<i>Luffa</i>	<i>acutangula</i>	Cucurbitaceae	c	AHS	Jangli Dodaka
101	<i>Madhuca</i>	<i>longifolia</i>	Sapotaceae	t	AUS	Moha
102	<i>Maytenus</i>	<i>emarginata</i>	Celastraceae	s	FV	Bharati, Bhorati
103	<i>Milletia</i>	<i>auriculata</i>	Fabaceae	c		Gurari, Gurali
104	<i>Mitragyna</i>	<i>parviflora</i>	Rubiaceae	t	A	Kalamb
105	<i>Mollugo</i>	<i>pentaphylla</i>	Molluginaceae	h	FS	Tonkala
106	<i>Momordica</i>	<i>dioica</i>	Cucurbitaceae	c	A	Katulyacha vel
107	<i>Murdania</i>	<i>nudiflora</i>	Commelinaceae	h	V	
108	<i>Nyctanthes</i>	<i>arbor-tristis</i>	Oleaceae	t	A	Prijat(ak)
109	<i>Ocimum</i>	<i>canum</i>	Lamiaceae	h	AHS	Rantulas
110	<i>Ougeinia</i>	<i>oojeinensis</i>	Fabaceae	t	AT	Tivas
111	<i>Pavetta</i>	<i>indica</i>	Rubiaceae	h		
112	<i>Phyllanthus</i>	<i>amaras</i>	Euphorbiaceae	h	A	-
113	<i>Phyllanthus</i>	<i>debilis</i>	Euphorbiaceae	h	F	-
114	<i>Phyllanthus</i>	<i>madraspatensis</i>	Euphorbiaceae	h		Bhuiavala
115	<i>Phyllanthus</i>	<i>urinaria</i>	Euphorbiaceae	h	AUS	-
116	<i>Plantago</i>	<i>exigua</i>	Plantaginaceae	h		Guhai
117	<i>Plumbago</i>	<i>zeylanica</i>	Plumbaginaceae	h	A	Chittrak
118	<i>Psoralea</i>	<i>corylifolia</i>	Fabaceae	s	A	Bawchi
119	<i>Puppalia</i>	<i>lappacea</i>	Amaranthaceae	h	FVS	Lepati
120	<i>Rhyncosia</i>	<i>minima</i>	Fabaceae	c		Turvel
121	<i>Schleichera</i>	<i>oleosa</i>	Sapindaceae	t	FA	Kusum
122	<i>Schrebera</i>	<i>switenoides</i>	Oleaceae	t	A	Mokha
123	<i>Sida</i>	<i>acuta</i>	Malvaceae	h	A	Bhola
124	<i>Sida</i>	<i>cordata</i>	Malvaceae	h	AVU	
125	<i>Sida</i>	<i>rhombofolia</i>	Malvaceae	h	A	-
126	<i>Solanum</i>	<i>incanum</i>	Solanaceae	s		Dorli
127	<i>Sterculia</i>	<i>urens</i>	Sterculiaceae	t	AUSF	Kalai, Karai
128	<i>Stereospermum</i>	<i>colais</i>	Bignoniaceae	t		
129	<i>Stereospermum</i>	<i>suaveolens</i>	Bignoniaceae	t	A	Padar

1	2	3	4	5	6	7
130	<i>Synedrella</i>	<i>nodiflora</i>	Asteraceae	h	F	-
131	<i>Syzygium</i>	<i>cumini</i>	Myrtaceae	t	A	Jambhool
132	<i>Tectona</i>	<i>grandis</i>	Verbenaceae	t	A	Sag
133	<i>Tephrosia</i>	<i>purpurea</i>	Fabaceae	h	A	Unhali
134	<i>Terminalia</i>	<i>arjuna</i>	Combrataceae	t	A	Kawu, Aajan
135	<i>Terminalia</i>	<i>belerica</i>	Combrataceae	t	A	Behda
136	<i>Torenia</i>	<i>indica</i>	Scrophulariaceae	h		
137	<i>Trichodesma</i>	<i>amplexicaule</i>	Bignoniaceae	h		-
138	<i>Triumfetta</i>	<i>rhomboidea</i>	Tiliaceae	h	A	-
139	<i>Uraria</i>	<i>picta</i>	Fabaceae	s	ATSF	
140	<i>Urena</i>	<i>lobata</i>	Malvaceae	h	A	
141	<i>Ventilago</i>	<i>denticulata</i>	Rhamnaceae	c	F	Raktapiti / Ragatpiti
142	<i>Vigna</i>	<i>aconitifolius</i>	Fabaceae	c		
143	<i>Vigna</i>	<i>vexillata</i>	Fabaceae	c	A	-
144	<i>Vitex</i>	<i>negundo</i>	Verbenaceae	s	A	Nirgudi
145	<i>Woodfordia</i>	<i>fruticosa</i>	Lythraceae	t	A	Dhayati
146	<i>Wrightia</i>	<i>tinctoria</i>	Apocynaceae	t	A	Dudhi
147	<i>Xanthium</i>	<i>strumarium</i>	Asteraceae	h	ATUS	-
148	<i>Zinnia</i>	<i>peruviana</i>	Asteraceae	h		-
149	<i>Ziziphus</i>	<i>caracutta</i>	Rhamnaceae	s		
150	<i>Ziziphus</i>	<i>mauritiana</i>	Rhamnaceae	t	AFS	Bor
151	<i>Ziziphus</i>	<i>oenoplia</i>	Rhamnaceae	s	AFS	
152	<i>Ziziphus</i>	<i>xylopyra</i>	Rhamnaceae	s	AFS	Ghot Bor
153	<i>Zornia</i>	<i>diphylla</i>	Fabaceae	h	FVS	-



**Appendix No. LIV**

**Forest Area In Charge Of Revenue Department In The Division**

<b>S. No.</b>	<b>Range</b>	<b>Area</b>
-	-Nil-	-



**Appendix No. LV**

**Area Identified As “Forest” Within The Dictionary Meaning Of Forest  
In The Division.**

Sr. No.	Name of the Village	Survey No.	Area in ha.	Sr. No.	Name of the Village	Survey No.	Area in ha.
1	Gangadhari	95	32.00	26	Doma	A.S. No.152	20.00
		104	56.00	27	Gaulkheda	81	8.21
		118	8.00			90	23.60
		128	11.00			101	10.76
2	Tembrusonda	5	30.00	28	Manjarkapdi	10	15.00
		78	12.00			39	5.21
3	Telkhara	175	35.00			68	4.37
4	Morgad	44	120.00			55	4.00
5	Rajapur	78	70.00	29	Wadapati	58	5.75
		105	12.00			34	7.69
		124	12.00	65	4.37		
6	Borala	9	17.00	30	Kulangana	12	1.00
		14	40.00			36	10.00
		19	25.00			90	10.00
		134	13.00			155	59.69
7	Chandpur	11	9.00	31	Chichkheda	145	9.12
		27	10.00			183	8.50
		45	40.00			54	2.00
8	Bahadarpur	181	12.00			59	12.16
9	Aaki	44	40.00	32	Badnapur	1	1.01
10	Korda	2	24.15			11	6.82
11	Kajaldoh	55	27.51			17	0.32
		147	19.00			19	0.76
		114	32.00			21	15.32
12	Karda	96	50.12			23	0.30
		20	10.80			34	8.42
13	Bamadehi	16	40.00	35	1.73		
14	Gangarkheda	--	17.56	39	1.18		
15	Dahendri	A.S. No.6	5.00	83	0.47		
16	Kotmi	A.S. No.5	4.00	86	6.16		
17	Palshya	A.S. No.3	5.00	33	Kalapani	133	2.27
18	Churni	A.S. No.6	12.00			155	0.36
19	Bhandora	51	1.00			46	1.60
20	Katkunbh	A.S. No.54	13.00	34	Malkapur	17	0.64
21	Koyalari	A.S. No.13	12.00			18	2.74
22	Kanheri	A.S. No.28	18.00			8	0.29
23	Panchdonagri	A.S. No.41	14.00	35	Wastapur	13	0.66
24	Toranwadi	A.S. No.40	17.00			98	0.50
25	Bagdari	A.S. No.140	16.00			103	0.40
						105	5.89
						106	0.77

Sr. No.	Name of the Village	Survey No.	Area in ha.	Sr. No.	Name of the Village	Survey No.	Area in ha.
36	<i>Ramtek</i>	11	1.07	38	<i>Kulangana</i>	9	5.20
		16	2.54			32	3.76
		23	0.80			54	2.18
		31	2.16			75	4.22
37	<i>Somwarkheda</i>	29	23.00			115	7.15
						117	3.24
						118	0.73
						<b>Total</b>	<b>1288.03</b>

### Abstract

Sr. No.	Name of the Range	Identified area in hectare
1	<i>Anjangaon</i>	614.00
2	<i>Jarida</i>	358.14
3	<i>Chikhaldhara</i>	315.89
	<b>Total :</b>	<b>1288.03</b>



**Appendix No. LVI**

**List Of Existing Sawmills In The Division**

<b>S. No.</b>	<b>Tahsil</b>	<b>Place</b>	<b>Name Of Saw Mill</b>	<b>No. Of Saws</b>	<b>Remarks</b>
-	-	-	<b>-NIL-</b>	-	-



**Appendix No. LVII**

**List Of Wood/MFP Based Industries In The Division**

<b>S.No.</b>	<b>Range</b>	<b>Place</b>	<b>Type Of Industry</b>	<b>Remarks</b>
-	-	-	<b>-Nil -</b>	-



**Appendix No. LVIII**

**(A) Area Transferred To Wildlife**

<b>Comptt. No.</b>	<b>Area of old E/M Division in ha.</b>	<b>Area transferred to Wildlife</b>	<b>Area Balance with Division As per Shri. Sinha's Plan</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
41 to 50, 92 to 108, 111 to 124, 127 to 135, 143 to 193, 206, 209 to 297, 300 to 336, 338, 398 to 400, 402, 403, 418 to 420, 434, 457 to 664	90141.43	69204.62	30936.81	All area in Col. No.3 transferred to Tiger Project.
<b>Total :</b>	<b>90141.43</b>	<b>69204.62</b>	<b>30936.81</b>	

**(B) Area Newly added due to re-organization from other Division.**

<b>Comptt. No.</b>	<b>Area in ha.</b>	<b>Name of division from which received.</b>
<b>1</b>	<b>2</b>	<b>3</b>
4	132.55	West Melghat Division.
5	64.83	West Melghat Division.
6	321.70	West Melghat Division.
7	183.09	West Melghat Division.
8	400.60	West Melghat Division.
11	243.89	West Melghat Division.
12	200.26	West Melghat Division.
13	161.97	West Melghat Division.
14	295.00	West Melghat Division.
15	314.00	West Melghat Division.
16	292.24	West Melghat Division.
17	262.29	West Melghat Division.
18	291.40	West Melghat Division.
19	229.44	West Melghat Division.
20	207.76	West Melghat Division.
21	6.87	West Melghat Division.
22	149.10	West Melghat Division.
23	313.99	West Melghat Division.
24	259.06	West Melghat Division.
25	162.16	West Melghat Division.
26	379.89	West Melghat Division.
27	319.89	West Melghat Division.
28	366.78	West Melghat Division.
29	285.30	West Melghat Division.
30	352.90	West Melghat Division.

<b>1</b>	<b>2</b>	<b>3</b>
1	275.89	West Melghat Division.
32	324.05	West Melghat Division.
33	378.00	West Melghat Division.
38	89.34	West Melghat Division.
39	327.00	West Melghat Division.
40	304.30	West Melghat Division.
43	173.01	West Melghat Division.
44	220.57	West Melghat Division.
45	343.23	West Melghat Division.
46	131.38	West Melghat Division.
47	164.02	West Melghat Division.
48	142.16	West Melghat Division.
49	354.45	West Melghat Division.
50	244.90	West Melghat Division.
790	264.70	West Melghat Division.
791	369.10	West Melghat Division.
792	240.80	West Melghat Division.
793	214.90	West Melghat Division.
Kulangana-33	104.00	West Melghat Division.
Kulangana-34	84.00	West Melghat Division.
<b>Total :</b>	<b>10946.76</b>	
949	209.20	South Melghat Division
950	141.42	South Melghat Division
951	230.16	South Melghat Division
952	257.40	South Melghat Division
953	266.30	South Melghat Division
954	206.40	South Melghat Division
955	240.80	South Melghat Division
1033	372.32	South Melghat Division
1034	218.10	South Melghat Division
1035	210.62	South Melghat Division
1036	189.40	South Melghat Division
1037	158.60	South Melghat Division
1038	184.90	South Melghat Division
1039	245.60	South Melghat Division
1040	211.60	South Melghat Division
1041	282.00	South Melghat Division
1042	243.60	South Melghat Division
1043	252.91	South Melghat Division
1044	226.20	South Melghat Division
1045	223.40	South Melghat Division
1046	170.00	South Melghat Division
1047	270.30	South Melghat Division
1048	282.90	South Melghat Division
1049	228.60	South Melghat Division
1050	294.20	South Melghat Division
1051	259.00	South Melghat Division
Girguti	660.06	South Melghat Division
Ambapati	306.29	South Melghat Division
Jamli	317.33	South Melghat Division
Tekada Nagzira	91.21	South Melghat Division

<b>1</b>	<b>2</b>	<b>3</b>
1052	271.50	South Melghat Division
1053	157.00	South Melghat Division
1054	311.20	South Melghat Division
1055	203.10	South Melghat Division
1056	201.90	South Melghat Division
1058	270.38	South Melghat Division
Kundi	205.66	South Melghat Division
Chouramal	532.63	South Melghat Division
Sakhari- Chikhalpati	52.81	South Melghat Division
Dharamdoh	185.00	South Melghat Division
Satti-Ruipathar	296.98	South Melghat Division
1057	316.04	South Melghat Division
1059	170.25	South Melghat Division
1060	151.80	South Melghat Division
1061	245.71	South Melghat Division
1062	212.88	South Melghat Division
1063	172.73	South Melghat Division
1064	250.34	South Melghat Division
1065	200.67	South Melghat Division
1066	283.70	South Melghat Division
1067	282.31	South Melghat Division
1068	322.90	South Melghat Division
1069	161.95	South Melghat Division
1070	314.40	South Melghat Division
Chinchona C	958.30	South Melghat Division
<b>Total</b>	<b>14182.96</b>	



### Appendix No. LIX

#### Statement Showing The Extent Of Natural And Artificial Boundaries

Sr. No.	Range	Boundary	Length in Km.			
			Total Length Of Boundary	Nadi/Nala Natural Boundary	Road Boun-dary	Artificial Length Of Boundary
1	<i>Jarida</i>	i) External state boundary	65.260	5.702	-	59.558
		ii) Boundary adjoining to Tiger Project	63.613	20.909	-	42.704
		<b>Total</b>	<b>128.873</b>	<b>26.611</b>	<b>-</b>	<b>102.262</b>
2	<i>Ghatang</i>	i) External state boundary	56.264	-	7.60	48.664
		ii) Boundary adjoining to Tiger Project	34.214	5.069	8.490	20.655
		<b>Total</b>	<b>90.478</b>	<b>5.069</b>	<b>16.09</b>	<b>69.119</b>
3	<i>Chikhaldhara</i>	i) External boundary, Amravati division	25.344	7.25	-	18.094
		ii) External adjoining to Tiger Project	28.005	5.729	-	22.276
		<b>Total</b>	<b>53.349</b>	<b>12.979</b>	<b>-</b>	<b>40.370</b>
4	<i>Anjangaon</i>	i) External boundary, Amravati division	33.048	6.93	-	26.118
		ii) External adjoining to Tiger Project	29.045	9.175	-	19.870
		<b>Total</b>	<b>62.093</b>	<b>16.105</b>	<b>-</b>	<b>45.988</b>
<b>Grand Total</b>			<b>334.793</b>	<b>-</b>	<b>-</b>	<b>257.79</b>

#### Internal Beat Boundary

Sr. No.	Range	Length in Km.			
		Total Length	Nadi/Nala	Road	Artificial Length
1	<i>Jarida</i>	<b>213.21</b>	82.429	1.865	128.916
2	<i>Ghatang</i>	<b>188.05</b>	36.762	4.60	146.688
3	<i>Chikhaldhara</i>	<b>172.38</b>	483.384	10.114	113.878
4	<i>Anjangaon</i>	<b>123.44</b>	29.054	6.312	88.074
<b>Grand Total</b>		<b>697.08</b>	<b>196.629</b>	<b>22.891</b>	<b>477.557</b>



**Appendix No. LX**

**List of Central Nurseries in East Melghat Division.**

<b>Sr. No.</b>	<b>Name of the Range</b>	<b>Location</b>
1	Chikhaldara	Amzari
2	Jarida	Jarida
3	Ghatang	-
4	Anjangaon	Chinchona



**Appendix No. LXI**  
**(b) Treatment Prescribed For Old Teak Plantation**  
**Silvicultural Thinning**

Sr. No.	Year	25 Years			35 Years			45 Years			55 Years			Total		
		Year	Comptt. No.	Area in ha.	Year	Comptt. No.	Area in ha.	Year	Comptt. No.	Area in ha.	Year	Comptt. No.	Area in ha.			
1	20018-19	-	-	-	1975	433	5.00	1965	91	2.40	1955	79	2.80	24.00		
2	2019-20	-	-	-	1976	404	3.00	-	-	-	1956	79	2.80	14.00		
					1976	433p,435	5.00				1956	441	3.20			
3	2020-21	1987	337	18.00	1977	436	5.00	1967	91	18.20	1957	80	4.00	135.60		
		1987	90	50.0	1977	382	5.00	1967	85	24.30						
					1977	433	5.00	1967	63	6.10						
4	2021-22	-	-	-	1978	438	5.00	1968	366	8.90	1958	80	5.30	36.00		
					1978	378,384	5.00				1958	366	4.00			
					1978	425	5.00				1958	61	2.80			
5	2022-23	-	-	-	1979	393p	5.00	1969	83	14.20	1959	366	8.10	43.30		
					1979	416,147	6.00									
					1979	493p	5.00									
					1979	383,387	5.00									
6	2023-24	-	-	-	1980	373	10.00	1970	91	20.20	1960	73	4.00	70.50		
					1980	386	5.00				1960	368	7.30			
					1980	385	5.00				1960	79	4.00			
					1980	90	15.00									
7	2024-25	-	-	-	1981	385	20.00	1971	84	20.00	1961	73	8.10	50.10		
											1961	366	2.00			
8	2025-26	-	-	-	-	-	-	1972	84	20.00	1962	79	2.00	26.00		
											1962	80	4.00			
9	2026-27	-	-	-	-	-	-	-	-	-	1963	91	10.10	10.10		
10	2027-28	-	-	-	-	-	-	-	-	-	1964	91	8.10	8.10		
<b>Total</b>				<b>68.00</b>				<b>119.00</b>				<b>148.10</b>			<b>82.60</b>	<b>417.70</b>

**(a) Treatment Prescribed For Old Teak Plantation**

1 st Year 2016-2017				2 nd Year 2017-2018				3 rd Year 2018-2019			
Sr. No.	Year	Comptt. No.	Area In ha.	Sr. No.	Year	Comptt. No.	Area In ha.	Sr. No.	Year	Comptt. No.	Area In ha.
1	1975	433	5.00	1	1978	438	5.00	1	1981	385	20.00
2	1965	91	2.40	2	1978	378,384	5.00	2	1971	84	20.00
3	1965	84	13.80	3	1978	425	5.00	3	1961	73	8.10
4	1955	79	2.80	4	1968	366	8.90	4	1961	366	2.00
5	1976	404	3.00	5	1958	80	5.30	5	1972	84	20.00
6	1976	433P,435	5.00	6	1958	366	4.00	6	1962	79	2.00
7	1956	79	2.80	7	1958	61	2.80	7	1962	80	4.00
8	1956	441	3.20	8	1979	393P	5.00	8	1963	91	10.10
9	1987	337	18.00	9	1979	416,417	6.00	9	1964	91	8.10
10	1987	90	50.00	10	1979	443P	5.00	-	-	-	-
11	1977	436	5.00	11	1979	386,387	5.00	-	-	-	-
12	1977	382	5.00	12	1969	83	14.20	-	-	-	-
13	1977	433	5.00	13	1959	366	8.10	-	-	-	-
14	1967	91	18.20	14	1980	373	10.00	-	-	-	-
15	1967	85	24.30	15	1980	386	5.00	-	-	-	-
16	1967	63	6.10	16	1980	385	5.00	-	-	-	-
17	1957	80	4.00	17	1980	90	15.00	-	-	-	-
-	-	-	-	18	1970	91	20.20	-	-	-	-
-	-	-	-	19	1960	73	4.00	-	-	-	-
-	-	-	-	20	1960	368	7.30	-	-	-	-
-	-	-	-	21	1960	79	4.00	-	-	-	-
<b>Total</b>			<b>173.60</b>	<b>Total</b>			<b>149.80</b>	<b>Total</b>			<b>94.30</b>
<b>Grand Total 417.70</b>											



**Appendix No. LXII**

**Zudpi Jungle Area In The Division**

<b>Range</b>	<b>Village</b>	<b>Area</b>
-	NIL	-



**Appendix No. LXIII**

**Area Under Plantation In Zudpi Jungle**

<b>Sr. No.</b>	<b>Range</b>	<b>Name Of Village</b>	<b>Survey No.</b>	<b>Year</b>	<b>Area (ha.)</b>
-	-	-NIL-	-	-	-



## Appendix No. LXIV

### Area Under Compensatory Afforestation

Sr. No.	Proposal Name	Village Name	Survey No.	Area
1	Nanduri Project, Ta. Dharni	Bamadahi	133	16.60
2	Manjari Mhasala, Minor Irrigation Project, Ta. Nandgaon Khandeshwar	Bhilkheda	20	4.47
		<b>Total</b>		<b>21.07</b>
3	Akoli By Pass Road Tq. Amravati	Bhilkheda	20	1.99
4	Bodna Percolation Tank	Bhilkheda	20	2.95
5	Kohal Minor Irrigation Project	Bhilkheda	20	1.50
6	Ner Pingalai to Pingladevi Gad Road	Bhilkheda	20	3.02
		<b>Total</b>		<b>9.46</b>
		<b>G. Total</b>		<b>30.53</b>



**Appendix No. LXV**

**Proforma Of Deviation Proposals**

Divi.	W.C. Appindix No.	F.S. C.No.	Area hect.	Comptt. No.	P.B. No.	Nature of operation prescribed in W.P.	Year prescribed in W.P. for the operation	Actual year of operation	Desig- -nation of inspecting officer	
1	2	3	4	5	6	7	8	9	10	11

Reasons  
for  
deviation

12

**Proforma Of Amendment**

Amendment No.	Date of issue	Page and Paragraph No.	Date of posting
1	2	3	4

**Appendix No. LXVI**

**Sample Control Forms**

**(a) Control Form No.1**

**CONTROL FORM FOR S.C.I. WORKING CIRCLE**

Name of Working Plan:  
 Working Circle:  
 Felling Series:  
 Prescribed Operations vide Paras:  
 Appendix No:

Circles:  
 Division:  
 Range:

Year	Coupe No	Compart - ment included	Total area		Year in which worked	Total area worked	Results of operations actually carried out	
			Workable	Unwork-able			Total No. of trees enumerated of selection size and above	
							Species	No
1	2	3	4	5	6	7	8	9

Results of operations actually carried out		Results of operations actually carried out						
Total No. of trees of selection size and above felled (a) Permissible to be felled (b) Actually felled.		Total No. of trees of preselection class felled		Yield in cubic metres				
Species	No.	Species	No	Species	Logs No/cm	Poles below 45/cm No/cm	Fuel Tonnes	Revenue realised
10	11	12	13	14	15	16	17	18

Results of operations actually carried out				Remarks
Expenditure incurred	Artificial Regeneration carried out			
	Year	Species	Area	

**Control From No.2**  
**CONTROL FORM FOR IMPROVEMENT/PROTECTION/AFFORESTATION**  
**WORKING CIRCLE**

Name of Working Plan:  
 Working Circle:  
 Felling Series:  
 Prescribed Operations vide Paras:  
 Appendix No:

Circles:  
 Division:  
 Range:

<b>Prescribed Operations</b>								
<b>Year Of Working</b>								
Compart ment No.	Coupe No	Area in ha.	Area of working as per treatment map	Area of 'D' category as per treatment map	Area of NR works as per treatment map	Planting area ha.		Soil and moisture cons. works as per treatment map
						Teak/ misc. as per treatment map	Bamboo as per treatment map	
1			2	3	4	5	6	7

<b>Results of operations actually carried out</b>						
<b>Year in which worked</b>						
No. of trees marked for felling	No. of trees felled	Planting		Outturn if any		
		Area of NR Operations	Soil Moisture cons. works Type and quantity	Timber m3	Pole no m3	Fuel m3
8	9	10	11	12	13	14

<b>Results of operations actually carried out</b>					
Revenue realized Rs.	Expenditure incurred Rs.	Area Planted		Outturn if any	
		Teak/ misc.	Bamboo	Expenditure incurred in Rs.	Remark
15	16	17	18	19	20

**Control Form No. 3**

**CONTROL FORM FOR CULTURAL OPERATIONS**

Name of the Working Plan:  
 Felling series :  
 Working Circle :

Circle:  
 Division:  
 Range:

<b>prescribed</b>				<b>Results of operations actually carried out</b>				
<b>Year</b>	<b>Nature of Operation prescribed</b>	<b>Comptt No.</b>	<b>Coupe Area</b>	<b>Year in Which Worked.</b>	<b>Species</b>	<b>Logs No./cm</b>	<b>Poles below 45 cm No./cm.</b>	<b>Fuel (cum)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>

<b>Outturn if any No</b>	<b>Expenditure incurred</b>	<b>Revenue Realized</b>	<b>Remarks</b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>

## Control Form No. 4

### CONTROL FORM FOR BAMBOO ( OVERLAPPING ) WORKING CIRCLE

Name of the Working Plan :

Circle :

Working Circle

Prescribed operations vide paras :

Division :

Prescribed					Results of operations actually carried out					
Year	Range	Coupes or Comptt No.	Area Ha	Year of work ing	Total area worked ha.	Balance + in Blue - in Red	Total number of bamboo exploited	Revenue realized	Expendit ure incurred	Remark
1	2	3	4	5	6	7	8	9	10	11



**Control Form No. 6-A**

**CONTROL FORM FOR 1/5<sup>TH</sup> BOUNDARY VERIFICATION AND DEMARCATION**

Name of the Working Plan:  
Prescribed operations vide paras:

Circle:  
Division:

**A NEW DEMARCATION ONLY**

<b>Year</b>	<b>Range</b>	<b>Location of The Boundary Form To</b>	<b>Target for the year</b>	<b>Length actually demarcated</b>	<b>Shortfall or excess - in Red + in blue</b>	<b>Total No of cairns built</b>	<b>Details about different types of cairns erected should be given</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>

**Control Form No. 6- B.**

**CONTROL FORM FOR 1/5<sup>TH</sup> BOUNDARY VERIFICATION AND DEMARCATION**

Name of the Working Plan:

Division:

Circle:

Prescribed operations vide Paras:

Appendix No.

**B. MAINTENANCE AND VERIFICATION OF LINES**

Year	Range	Location of The Boundary	Prescribed		Boundary actually Verified and maintained.	Short fall of excess + in Blue - in Red	Remarks Among other matters Special mention about the encroachments should be made
			From	To			
1	2	3	4	5	6	7	8

**Control Form No 7**

**CONTROL FORM FOR GRAZING**

Name of the Working Plan:

Circle:

Felling Series :

Prescribed operations vide Paras:

Division :

Range :

Appendix No. :

No. of section

year :

<u>Prescription vide paragraph No.</u>					<u>Actual grazing conditions</u>			
Grazing Unit No	Class of Forest	Area Total	Average area open to grazing closed to Grazing area	Maximum incidence permissible cattle units according to The order of etc.	Maximum No. of Cattle Admissible (Cows, Bullocks, Buffaloes, Classification)			
					cows	Bulls	Buffaloes	Total
1	2	3	4	5	6	7	8	9

<u>Free</u>		<u>Privileged</u>		<u>Commercial</u>				Total cattle unit grazed
Bulls Bullocks Or cow	Buffaloes.	Bulls Bullocks Or cow	Buff - aloes.	From listed villages		From other villages		
				cows	Buffaloes	cows	Buffaloes	
10	11	12	13	14	15	16	17	18

Area that remained Open to grazing During the year	Maximum Incidence permissible during the year	No. of sections which remained Closed for grazing	incidences. During the year	Remarks
19	20	21	22	23

**Control Form no. 8**  
**CONTROL FORM FOR JFM WORKING CIRCLE**

Name of Working Plan:-  
Felling Series:-  
Prescribed Operations:-  
vide Para No.  
Appendix No.:-

Circle:-  
Division:-  
Range:-

Name of the JFM Village	Account No.	Year	Area Regenerated and type of work	Expenditure Incurred and Scheme	Soil and Moisture Conservation Works	Expenditure Incurred
					Nature of Work	

Entry Point Activities		MFP Collection		Timber		Money Accrued In The Bank Account
Nature of Work	Expenditure Incurred	Quantity and Nature of Produce	Amount Realized	Area Worked	Amount Realized	

**Control Form no. 9**

**CONTROL FORM FOR NTFP WORKING CIRCLE**

Name of Working Plan:-  
Felling Series:-  
Prescribed Operations:-  
vide Para No.  
Appendix No.:-

Circle:-  
Division:-  
Range:-

S.No.	Name of the NTFP	Nature of NR Works Taken up	Expenditure Incurred	Artificial Regeneration		Quantity of NTFP Collected	Amount Realized	Mandays Created
				Area	Expenditure Incurred			

**Control Form no. 10**  
**CONTROL FORM FOR WILDLIFE (OVERLAPPING) WORKING CIRCLE**

Name of Working Plan:-  
 Felling Series:-  
 Prescribed Operations:-  
 vide Para No.  
 Appendix No.:-

Circle:-  
 Division:-  
 Range:-

S.No.	Particulars of Works	Expenditure Incurred
1	No. of Water Holes Desilted	
2	Number of Water Holes Created	
3	Salt Licks laid	
4	Awareness Activities Taken up	
5	Population Estimaes Carried Out	
6	Measures Taken Up For The Reduction in Number Of Cattles	
7	Development Of Meadows;Fruit Tree Plantations etc.	
	<b>Grand Total</b>	

**Control Form No.**

**CONTROL FORM FOR TEAK PLANTATION WORKING CIRCLE**

Name of Working Plan:  
 Working Circle:  
 Felling Series:  
 Prescribed Operations vide Para:  
 Appendix No:

Circles:  
 Division:  
 Range:

Sr. No.	Coupe No.	Area of the coupe	Workable area 'D' Category	Site Quality	Total No. of grids	No. of fit grids	No. of Unfit grids	Trees actually Felled				Timber					
								Teak	Teak coppice	Non Teak	Total	Teak		Non Teak		Total	
1	2	3	4	5	6	7	8	9a	9b	9c	9d	10a	10b	10c	10d	10e	10f

Poles						Stacked fuel wood			Revenue Realized	Area regenerated artificially (ha)	Expenditure incurred		Remarks
Teak		Non Teak		Total		Teak	Non Teak	Total			Felling operations	Afforestation	
No. of logs	cum	No. of logs	cum	No. of logs	cum	Stacked Volume (cum)	Stacked Volume (cum)	Stacked Volume (cum)					
11a	11b	11c	11d	11e	11f	12a	12b	12c	13	14	15a	15b	16



## Appendix LXVII

### List Of Reptiles, Fishes and Birds Of Melghat

#### PODICIPEDIDAE : Grebes

1	Little Crebe or Dabchick	<i>Podiceps ruficollis</i>	5	M	U	पाण्डुबी
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#### ARDEIDAE : Herons, Egrets, Bittens

2	Grey Heron	<i>Ardea cinerea</i>	36		U	राखी बगळा
3	Little green heron	<i>Ardeola striatus</i>		M	U	
4	Pond Heron or Paddy Bird	<i>Ardeola grayii</i>	42	R	C	भुरा बगळा
5	Cattle Egret	<i>Bubulcus ibis</i>	44	R	C	गाय बगळा
6	Large Egret	<i>Ardea alba</i>	46	M	U	मोर बगळा
7	Median Egret	<i>Egretta intermedia</i>	47	M	U	पिसारी बगळा
8	Little Egret	<i>Egretta garzetta</i>	49	R	C	छोटा पिसारी बगळा
9	Chestnut Bittern	<i>Ixobrychus cinnamomeus</i>	56	M	U	लाल बगळा
10	Yellow Bittern	<i>Ixobrychus sinensis</i>	57	M	U	पिवळा बगळा

#### CICONIIDAE : Storks

11	White necked Stork	<i>Ciconia episcopus</i>	62	R	O	शुभ्र मानी करकोचा
12	White Stork	<i>Ciconia ciconia</i>		M	U	
13	Black Stork	<i>Ciconia nigra</i>	65	W	U	काळा करकोचा
14	Painted Stork	<i>Myeteria leucocephala</i>		M	U	

#### THRESKIORNITHIDAE : Ibises, Spoonbill

15	White Ibis	<i>Threskiornis aethiopica</i>	69	M	U	पांढरा अवाक
16	Black Ibis	<i>Pseudibis papillosa</i>	70	M	U	काळा अवाक

**ANATIDAE : Ducks, Geese**

17	Lesser Whistling Teal	<i>Dendrocygna javanica</i>	88	M	U	छोटा मराल
18	Pintail	<i>Anas acuta</i>	93	M	U	सररुची
19	Common Teal	<i>Anas crecca</i>	94	M	U	मराल
20	Spotbilled Duck	<i>Anas poecilorhyncha</i>	97	M	U	सारजा
21	Gadwall	<i>Anas strepera</i>	101	M	U	गडवाल
22	Garganey or Bluewinged Teal	<i>Anas querquedula</i>	104	M	U	भुबई
23	Shoveller	<i>Anas clypeata</i>	105	M	U	थापटया
24	Brahminy Duck	<i>Tadorna ferruginea</i>	90	M	U	चकवाक

**ACCIPITRIDAE : Hawks, Vultures, Eagles**

25	Blackwinged Kite	<i>Elanus caeruleus</i>	124	R	C	कापशी
26	Crested Honey Buzzard	<i>Pernis ptilorhyncus</i>	130	R	C	चूढाल मधुबाज
27	Pariah Kite	<i>Milvus migrans govinda</i>	133	R	U	नागरी घार
28	Brahminy Kite	<i>Haliaeetus indus</i>	135	M	U	ब्रम्हणी घार
29	Shikra	<i>Accipiter badius</i>	138	R	C	शिका
30	Crested Goshawk	<i>Accipiter trivirgatus</i>	144	R	U	तुरेवाला महाशिका
31	White-eyed Buzzard-Eagle	<i>Butastur teesa</i>	157	R	C	शुभ्रनयन तीसा
32	Crested Hawk-Eagle	<i>Spizhaetus cirrhatus</i>	161	R	C	तुरेवाला गरुड
33	Bonelli's Eagle	<i>Hieraetus fasciatus</i>	163	R	U	बॉनेलीचा गरुड
34	Tawny Eagle	<i>Aquila rapax vindhiana</i>	168		U	सुपर्ण
35	Black Eagle	<i>Ictinaetus malayensis</i>	172		O	काळा गरुड
36	Black or king Vulture	<i>Sarcogyps calvus</i>	178	R	U	राजगिधाड
37	Indian whitebacked Vulture	<i>Gyps bengalensis</i>	185	R	U	शुभ्रपाठी गिधाड
38	Indian longbilled Vulture	<i>Gyps indicus</i>	182	R	U	लांबचोचीचा गिधाड
39	Indian Scavenger Vulture	<i>Neophron percnopterus</i>	187	R	C	पांढरे गिधाड
40	Pale Harrier	<i>Circus macrourus</i>	190	W	C	हारिण
41	Short-toed Eagle	<i>Circaetus gallicus</i>	195	R	U	नागान्त
42	Crested Serpent Eagle	<i>Spilomis cheela</i>	197	R	C	तुरेवाला सर्प-गरुड
43	Osprey	<i>Pandion haliaetus</i>	203	W	U	मत्स्य-गरुड

### FALCONIDAE : Falcons

44	Laggar Falcon	<i>Falco biarmicus jugger</i>	208		U	लॅगगार ससाणा
45	Peregrine Falcon	<i>Falco peregrinus Japonensis</i>	209	W	U	बहिरी ससाणा
46	Shaheen Falcon	<i>Falco peregrinus peregrinato</i>	211		U	शाहीन ससाणा
47	Hobby	<i>Falco subbuteo</i>	212	W	U	हॉबी
48	Redheaded Merlin	<i>Falco chicquera</i>	219		U	लाल डोक्याचा मर्लिन
49	Lesser Kestrel	<i>Falco naumanni</i>	221			लहान केस्ट्रल
50	European Kestrel	<i>Falco tinnunculus</i>	222	W	C	यूरोपीयन केस्ट्रल

### PHASIANIDAE : Pheasants, Partridges, Quails

51	Painted Partridge	<i>Francolinus pictus</i>	241	R	C	रंगित तितर
52	Grey Partridge	<i>Francolinus pondicerianus</i>	245	R	U	राखी तितर
53	Grey Quail	<i>Coturnix coturnix</i>	250		U	राखी दुर्लाव
54	Blackbreasted or Rain Quail	<i>Coturnix coromandelica</i>	252		C	काळया छातीचा दुर्लाव
55	Jungle Bush Quail	<i>Perdicula asiatica</i>	255	R	C	रानातले झुडूपी दुर्लाव
56	Rock Bush Quail	<i>Perdicula argoondah</i>	260	R	C	खडकाळ भागातील झुडूपी दुर्लाव
57	Painted Bush Quail	<i>Perdicula erythrorhyncha</i>	263	R	C	रंगित झुडूपी दुर्लाव
58	Red Spurfowl	<i>Galloperdix spadicea</i>	275	R	C	चकोत्रा
59	Painted Spurfowl	<i>Galloperdix lunulata</i>	278	R	U	रंगित चकोत्रा
60	Grey or Sonnerat's Junglefowl	<i>Gallus sonneratii</i>	301	R	A	राखी रानकोंबडा
61	Common Peafowl	<i>Pavo cristatus</i>	311	R	A	मोर

### TURNICIDAE : Bustard-quails

62	Little Bustard-Quail	<i>Turnix sylvatica</i>	313		C	लहान मालढोक दुर्लाव
63	Yellowlegged Button Quail	<i>Turnix tanki</i>	314		C	पिवळया पायाचा मालढोक दुर्लाव
64	Common Bustard-Quail	<i>Turnix suscitator</i>	318		C	सामान्य मालढोक दुर्लाव

**GRUIDAE :Cranes**

65	Demoiselle Crane	<i>Anthropoides virgo</i>	326	W	U	पांढ-या तु-याचा कौंच
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**RALLIDAE : Rails, Coots**

66	Whitebreasted Waterhen	<i>Amanornis phoenicurus</i>	343	R	U	शुभ्र वक्षी पाणकोंबडी
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**CHARADRIIDAE : Plovers, Sandpipers, Snipe**

67	Redwattled Lapwing	<i>Vanellus indicus</i>	366	R	C	टिटवी
68	Yellow Wattled Lapwing	<i>Vanellus malabaricus</i>	370	R	U	वाचाटया
69	Spurwinged Lapwing	<i>Vanellus spinosus</i>	369		U	काटेरी पंखाची टिटवी
70	Little Ringed Plover	<i>Charadrius dubius</i>	380	R	C	कंठेरी चिलखा
71	Greenshank	<i>Tringa nebularia</i>	396	W	U	हरित सुरमा
72	Redshank	<i>Tringa totanus</i>	393	W	U	रक्तसुरमा
73	Wood or spotted Sandpiper	<i>Tringa glareola</i>	398	W	C	ठिपकेदार तुतारी
74	Green Sandpiper	<i>Tringa Ochropus</i>	397	W	C	हिरवी तुतारी
75	Common Sandpiper	<i>Tringa hypoleucos</i>	401	W	C	सामान्य तुतारी
76	Pintail Snipe	<i>Gallinago stenura</i>	406	W	C	टाचणीशेपूट केकस
77	Fantail Snipe	<i>Gallinago gallinago</i>	409	W	C	पंखेरी केकस

**RECURVIROSTRIDAE : Stilt Avocet**

78	Blackwinged Stilt	<i>Himantopus himantopus</i>	430		U	शेकाटया
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**BURHINIDAE : Stone Curlew**

79	Stone Curlew	<i>Burhinus oediconemus</i>	436	M	U	कुरल चिलखा
80	Great Stone plover	<i>Esacus magnirostris</i>	437	M	U	मोठा करवानक / मोठा चिलखा

**GLAREOLIDAE : Coursers, Pratincoles**

81	Small Indian Pratincole	<i>Glareola lactea</i>	444	M	C	छोटा भारतीय प्रॅटिनकोल
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**PTEROCLIDIDAE : Sandgrouse**

82	Indian Sandgrouse	<i>Pterocles exustus</i>	487	M	U	कृकल
83	Painted Sandgrouse	<i>Pterocles indicus indicus</i>	492	M	U	रंगीत कृकल

**COLUMBIDAE : Pigeons, Doves**

84	Yellowlegged Green Pigeon	<i>Treron phoenicoptera</i>	504	R	A	हरियल
85	Blue Rock Pigeon	<i>Columba livia</i>	517	R	C	कबूतर
86	Rufous Turtle Dove	<i>Streptopelia orientalis</i>	532	W	C	तांबुस होला
87	Indian Ring Dove	<i>Streptopelia decaocto</i>	534		C	गौरा होला
88	Red Turtle Dove	<i>Streptopelia tranquebarica</i>	535		C	होला
89	Spotted Dove	<i>Streptopelia chinensis</i>	537	R	C	कवडा
90	Little Nrpwm Dove	<i>Streptopelia senegalensis</i>	541	R	C	भोरी

**PSITTACIDAE : Parakeets**

91	Alexandrine Parakeet	<i>Psittacula eupatria</i>	545	R	C	कंठा
92	Roseringed Parakeet	<i>Psittacula krameri</i>	550	R	C	कीर
93	Blossomheaded Parakeet	<i>Psittacula cyanocephala</i>	558	R	C	टुईया

**CUCULIDAE : Cuckoos**

94	Pied Crested Cuckoo	<i>Psittacula eupatria</i>	570	B	C	चातक
95	Common Hawk Cuckoo or Brain Fever Bird	<i>Psittacula krameri</i>	573	R	C	पावस्या
96	Indian Cuckoo	<i>Psittacula cyanocephala</i>	576		U	भारतीय कुकू
97	Cuckoo	<i>Cuculus canorus</i>	578		C	कुकू
98	Small Cuckoo	<i>Cuculus poliocephalus</i>	581		U	छोटा कुकू
99	Indian Baybanded Cuckoo	<i>Cacomantis sonneratii</i>	582		U	भारतीय लाल पट्टयाचा कुकू
100	Indian Plaintive Cuckoo	<i>Cacomantis passerinus</i>	584		U	भारतीय उदासीन कुकू
101	Drongo-Cuckoo	<i>Surniculus lugubrius</i>	588		U	ड्रॉगो-कुकू
102	Koel	<i>Eudynamis scolopacea</i>	590		C	कोकिळ
103	Small Greenbilled Malkoha	<i>Rhopodytes vividirostris</i>	595		C	छोटा हिरव्या चोचीचा मलकोहा
104	Sirkeer Cuckoo	<i>Taccocua leschenaultii</i>	598	R	C	कीरकुकू
105	Crow Pheasant or Coucal	<i>Centropus sinensis</i>	602	R	C	भारव्दाज

**STRIGIDAE : Owls**

106	Barn Owl	<i>Tyto alba</i>	606	R	C	गव्हाणी घुबड, चिरका
107	Scops owl	<i>Otus scops</i>	617	R	C	स्कॉप्सचे घुबड
108	Collared Scops Owl	<i>Otus bakkamoena</i>	622	R	C	कंठेरी स्कॉप्सचे घुबड
109	Great Horned owl or Eagle-owl	<i>Bubo bubo</i>	627	R	C	शृंगी घुबड
110	Dusky Horned Owl	<i>Bubo coromandus</i>	630	R	U	काळसर शृंगी घुबड
111	Brown Fish Owl	<i>Bubo zeylonensis</i>	631	R	U	तपकिरी मासेमार घुबड
112	Barred Jungle Owlet	<i>Glaucidium radiatum</i>	636	R	C	रानातले पट्टेरी छोटे घुबड
113	Brown Hawk Owl	<i>Ninox scutulata</i>	642	R	C	तपकिरी शिका घुबड
114	Spotted Owlet	<i>Athene brama</i>	652	R	C	ठिपकेवाले छोटे घुबड
115	Mottled Wood Owl	<i>Strix ocellata</i>	657	R	C	चट्टेरी घुबड
116	Brown Wood Owl	<i>Strix leptogrammica</i>	659	R	U	तपकिरी रानघुबड
117	Shorteared Owl	<i>Asio flammeus</i>	664	R	C	आखुडकानी घुबड
118	Forest spotted Owlet	<i>Athene blewitti</i>		R	C	
119	Spotted Owlet	<i>Athene brama brama</i>		R	C	

**CAPRIMULGIDAE : Nightjars**

120	Indian Jungle Nightjar	<i>Caprimulgus indicus</i>	671		C	भारतीय रानरातवा
121	Common Indian Nightjar	<i>Caprimulgus asiaticus</i>	680	R	C	सामान्य भारतीय रातवा
122	Franklins's Allied Nightjar	<i>Caprimulgus affinis</i>	682	R	C	फ्रँकलिनचा रातवा

**APODIDAE : Swifts**

123	Whiterumped Spinetail Swift	<i>Chaetura sylvatica</i>	692	R	U	शुभ्रबुडी काटेरीशेपूटाचा अबाबील
124	Alpine Swift	<i>Apus melba</i>	694	R	C	पहाडी अबाबील
125	House Swift	<i>Apus affinis</i>	703	R	C	दुर्बल
126	Crested Tree Swift	<i>Hemiprocne longipennis</i>	709	R	U	तुरेवाला वृक्षीय अबाबील

**ALCEDINIDAE : Kingfishers**

127	Pied Kingfisher	<i>Ceryle rudis</i>	719	R	U	कवडया धीवर
128	Small Blue Kingfisher	<i>Alcedo atthis</i>	723	R	C	खंडया
129	Whitebreasted Kingfisher	<i>Halcyon smymensis</i>	736	R	C	किलकिला
130	Black Capped Kingfisher	<i>Halcyon pileata</i>		M	U	
131	Black headed storkbilled Kingfisher	<i>Pelargopsis capensis</i>		M	U	

**MEROPIDAE : Bee-eaters**

132	Bluetailed Bee-eater	<i>Merops philippinus</i>	748	M	U	निळया शेपटीचा वेडा राघू
133	Green Bee-eater	<i>Merops orientalis</i>	750	M	C	वेडा राघू
134	Blue bearded bee eater	<i>Nyctornis athertone</i>		M	U	

**CORACIIDAE : Rollers**

135	Indian Roller	<i>Coracias benghalensis</i>	755	R	C	तास, नीलकंठ
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**UPUPIDAE : Hoopoe**

136	Hoopoe	<i>Upupa epops</i>	765	R	C	हूपू
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**BUCEROTIDAE : Hornbills**

137	Common Grey Hornbill	<i>Tockus birostris</i>	767	R	C	राखी शिंगचोचा
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**CAPITONIDAE : Barbets**

138	LargeGreen Barbet	<i>Megalaima zeylanica</i>	780	R	C	कुटुरगा
139	Crimsonbreasted Barbet or Coppersmith	<i>Megalaima haemacephala</i>	792	R	C	तांबट

**PICIDAE : Woodpeckers**

140	Little Scalybellied Woodpecker	<i>Picus myrmecophoneus</i>	808	R	U	खवलेपोटया सुतार
141	Lesser Goldenbacked Woodpecker	<i>Dinopium benghalense</i>	819	R	C	सोनपाठी सुतार
142	Yellowfronted pied or Maratha Woodpecker	<i>Picoides mahrattensis</i>	847	R	C	मराठा सुतार
143	Browncrowned Pigmy Woodpecker	<i>Picoides nanus</i>	852	R	C	छोटा सुतार
144	Heartspotted Woodpecker	<i>Hemicircus canente</i>	856	R	U	बदामी ठिपकेवाला सुतार
145	Blackbacked Woodpecker	<i>Chrysocolaptes festivus</i>	858	R	U	काळपाठी सुतार
146	Black Woodpecker	<i>Dryocopus javensis</i>	830		O	काळा सुतार

**PITTIDAE : Pittas**

147	Indian pitta	<i>Pitta brachyura</i>	867	W	C	नवरंग
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**ALAUDIDAE : Larks**

148	Redwinged Bush Lark	<i>Mirafra erythroptera</i>	877	R	C	आरुणी
149	Ashycrowned Finch-Lark	<i>Eremopterix grisea</i>	878	M	C	राखी डोळयाचा चंडोल
150	Rufoustailed Finch-Lark	<i>Ammomanes phoenicurus</i>	882	M	C	मुरारी
151	Short-toed Lark	<i>Colandrella cinerea</i>	886	W	C	आखुड बोटांचा चंडोल
152	Deccan or Syke's Crested Lark	<i>Galerida daya</i>	902		U	तुरेबाज चंडोल
153	Small or Eastern Skylark	<i>Alauda gulgula</i>	907	R	C	लहान चंडोल

**HIRUNDINIDAE : Swallows**

154	Crag Martin	<i>Hirundo rupestris</i>	913	W	C	पाकोळी
155	Dusky Crag Martin	<i>Hirundo concolor</i>	914	R	C	काळसर पाकोळी
156	Swallow	<i>Hirundo rustica</i>	916	W	C	भांडिक
157	Wiretailed Swallow	<i>Hirundo smithii</i>	921	R	C	तारशेपटी भिंगरी
158	Cliff Swallow	<i>Hirundo fluvicola</i>	922	R	C	पाणपांगोळी
159	Redrumped Swallow	<i>Hirundo daurica</i>	925	W	C	लालबुडी भिंगरी

**LANIIDAE : Shrikes**

160	Grey Shrike	<i>Lanius excubitor</i>	933	R	C	राखी खाटिक
161	Baybacked Shrike	<i>Lanius vittatus</i>	940	R	C	गांधारी
162	Rufousbacked Shrike	<i>Lanius Schach</i>	946	W	U	तांबुसपाठी खाटिक
163	Brown Shrike	<i>Lanius cristatus</i>	949	W	U	तपकिरी खाटिक
164	Pied Flycatcher Shrike	<i>Hemepus picatus</i>		M	U	

**ORIOOLIDAE : Orioles**

165	Golden Oriole	<i>Oriolus oriolus</i>	953		C	हळदया
166	Blackheaded Oriole	<i>Oriolus xanthomus</i>	959	R	C	बुरखी हळदया

**DICRURIDAE : Drongos**

167	Black Drongo or King Crow	<i>Dicrurus adsimilis</i>	963	R	A	कोतवाल
168	Grey or Ashy Drongo	<i>Dicrurus leucophaeus</i>	965	W	U	राखी कोतवाल
169	Whitebellied Drongo	<i>Dicrurus caerulescens</i>	967	R	U	शुभ्रपोटी कोतवाल
170	Large Racquettailed Drongo	<i>Dicrurus paradiseus</i>	976	R	U	भृंगराज

**ARTAMIDAE : Swallow-Shrikes**

171	Ashy Swallow-Shrike	<i>Artamus fuscus</i>	982	M	U	पाकोळी खाटिक
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**STURNIDAE : Mynas**

172	Greyheaded Myna	<i>Sturnus malabaricus</i>	987	M	C	राखी डोक्याची मैना
173	Black headed or Brahminy Myna	<i>Sturnus pagodarum</i>	994	M	C	ब्राम्हणी मैना
174	Rosy starling or Rosy Pastor	<i>Sturnus roseus</i>	996	W	U	भोरडी
175	Pied Myna	<i>Stumus contra</i>	1002	R	C	कवडी मैना
176	Common Myna	<i>Acridotheres tristis</i>	1006	R	A	साळुंकी
177	Bank Myna	<i>Acridotheres gingianus</i>	1008	R	U	राखी साळुंकी
178	Jungle Myna	<i>Acridotheres fuscus</i>	1010	R	U	रान मैना

**CORVIDAE : Crows, Magpies**

179	Indian Tree pie	<i>Dendrocitta vagabunda</i>	1031	R	C	टक्का चोर
180	House Crow	<i>Corvus splendens</i>	1049	R	U	कावळा
181	Jungle Crow	<i>Corvus macrorhynchos</i>	1057	R	C	डोम कावळा

**CAMPEPHAGIDAE : Minivets, Cuckoo-Shrikes**

182	Pied Flycatcher-Shrike	<i>Hemipus picatus</i>	1065	R	C	कवड्या नर्तक खाटिक
183	Common Wood Shrike	<i>Tephrodomis pondicerianus</i>	1070	R	C	रान खाटिक
184	Large Cuckoo-Shrike	<i>Coracina novaehollandiae</i>	1072	M	C	मोठा कुहुवा
185	Black headed Cuckoo-Shrike	<i>Coracina melanoptera</i>	1079	R	C	कुहुवा
186	Scarlet Minivet	<i>Pericrocotus flammeus</i>	1081	R	C	निखार
187	Small Minivet	<i>Pericrocotus cinnamomeus</i>	1093	R	A	छोटा निखार
188	Whitebellied Minivet	<i>Pericrocotus erythropygius</i>	1096	R	U	शुभ्रपोटी निखार

**IRENIDAE : Lora, chloropsis**

189	Lora	<i>Aegithina tiphia</i>	1107	R	C	सुभग
190	Jerdon's Goldmantled Chloropsis	<i>Chloropsis cochinchinensis</i>	1099	R	C	हरित कांचन

**PYCNONOTIDAE : Bulbuls**

191	Redwhiskered Bulbul	<i>Pycnonotus jocosus</i>	1120	R	C	लालगाली बुलबुल
192	Redvented Bulbul	<i>Pycnonotus cafer</i>	1128	R	A	सामान्य बुलबुल
193	Whitebrowed Bulbul	<i>Pycnonotus lutsolus</i>	1138	R	U	शुभ्रभुवई बुलबुल

**MUSCICAPIDAE : Timalinae : Babblers**

194	Spotted Babbler	<i>Pellomeum ruficeps</i>	1154	R	C	ठिपकेवाला सातभाई
195	Deccan Scimitar Babbler	<i>Pomatorhinus schisticeps</i>	1173	R	C	दक्षिणी तलवार चोच सातभाई
196	Rufousbellied Babbler	<i>Dumetia hyperythra</i>	1222	R	C	तांबूसपोटे सातभाई
197	Yelloweyed Babbler	<i>Chrysomma sinense</i>	1231	R	C	चिपका
198	Common Babbler	<i>Turdoides caudatus</i>	1254	R	C	सामान्य सातभाई
199	Large Grey Babbler	<i>Turdoides malcolmi</i>	1258	R	U	गोसावी
200	Jungle Babbler	<i>Turdoides striatus</i>	1262	R	C	रानसातभाई
201	Quaker Babbler	<i>Alcippe poioicephala</i>	1389	R	C	सज्जन सातभाई

### MUSCICAPINAE : Flycatchers

202	Redbreasted Flycatcher	<i>Muscicapa parva</i>	1411	W	C	तांबुला
203	Whitebrowed Blue Flycatcher	<i>Muscicapa superciliaris</i>	1421	W	U	शुभ्रभुवई निळा नर्तक
204	Tickells Blue Flycatcher	<i>Muscicapa tickelliae</i>	1442	R	C	नीलिमा
205	Verditer Flycatcher	<i>Muscicapa thalassia</i>	1445	W	C	नीलांग
206	Greyheaded Flycatcher	<i>Culicicapa ceyoensis</i>	1448	W	C	राखी डोक्याचा नर्तक
207	Whitebrowed Fantail Flycatcher	<i>Rhipidura aureola</i>	1451	R	C	शुभ्रभुवई नर्तक
208	Whitespotted Fantail	<i>Rhipidura albicollis</i>	1458	R	C	कवडया नर्तक
209	Paradise Flycatcher	<i>Terpsiphone paradisi</i>	1461	R	C	स्वर्गीय नर्तक
210	Blacknaped Blue Flycatcher	<i>Hypothpnis azurea</i>	1465	R	C	नीलमणी
211	Korean or Black and Yellow Flycatcher	<i>Muscicapa ficedula</i>	--		O	कोरीयन नर्तक

### SYLVIINAE : Warblers

212	Streaked Fantail Warbler	<i>Cisticola juncidis</i>	1498	R	C	चक्कर वटवटया
213	Franklin's Wren-Warbler	<i>Prinia hodgsonii</i>	1503	R	C	फॅकलिनचा वटवटया
214	Rufousfronted Wren-Warbler	<i>Prinia buchanani</i>	1506	R	C	तांबुसकपाळी वटवटया
215	Plain Wren-Warbler	<i>Prinia subflava</i>	1511	R	C	साधा वटवटया
216	Ashy Wren-Warbler	<i>Prinia socialis</i>	1517	R	C	राखी वटवटया
217	Jungle Wren-Warbler	<i>Prinia sylvatica</i>	1521	R	C	रानवटवटया
218	Tailor Bird	<i>Orthobomus sutorius</i>	1535	R	C	शिंपी
219	Striated Marsh Warbler	<i>Megalurus palustris</i>	1548	R	U	पट्टेरी दलदली वटवटया
220	Orphean Warbler	<i>Sylvia hortensis</i>	1565	W	U	काळया डोक्याचा वटवटया
221	Tickell's Leaf Warbler	<i>Phylloscopus affinis</i>	1579	W	U	टिकेलचा वटवटया
222	Blackbrowed Flycatcher-Warbler	<i>Seicercus burkii</i>	1614	W	C	काळयाभुवईचा नर्तक वटवटया

**TURDINAE : Thrushes Chats**

223	Bluethroat	<i>Erithacus svecicus</i>	1645	W	U	नीलकंठ
224	Magpie-Robin	<i>Copsychus saularis</i>	1661	R	C	दयाळ
225	Black Redstart	<i>Phoenicurus ochrurus rufiventris</i>	1672	W	C	काळा भिरभिरा
226	Collared Bush Char	<i>Saxicola torquata</i>	1697	W	C	गप्पीदास
227	Pied Bush Chat	<i>Saxicola caprata</i>	1701	R	C	कवडया गप्पीदास
228	Indian Robin	<i>Saxicoloides fulicata</i>	1719	R	C	चिरक
229	Blue Rock Thrush	<i>Monticola solitarius</i>	1726	W	U	पांडु (नर), माल (मादी)
230	Blue headed rock thrush	<i>Monticola cinclorhynchus</i>		M	U	
231	Malabar Whistling Thrush	<i>Myiophonus horsfieldii</i>	1728	R	C	गोगी
232	Whitethroated Ground Thrush	<i>Zoothera citrina cyanotus</i>	1734	R	C	शुभ्रकंठी जमीन कस्तुरा
233	Blackcapped Blackbird	<i>Turdus merula nigropileus</i>	1753	R	C	कस्तुरी

**PARIDAE : Tits**

234	Grey Tit	<i>Parus major</i>	1794	R	A	राखी बल्लुली
235	Yellow-cheeked Tit	<i>Parus xanthogenys</i>	1810	R	C	पिवळ्या गालाची बल्लुली
236	Fire capped Tit	<i>Cephalopyrus flammiceps</i>		M	U	

**SITTIDAE : Nuthatches Creepers**

237	Chestnutbellied Nuthatch	<i>Sitta castanea</i>	1830	R	C	लाल पोटाचा खोडपक्षी
238	Velvet fronted Nuthatch	<i>Sitta frontalis</i>	1838	R	C	मखमलीकपाळ खोडपक्षी
239	Spotted Grey Creeper	<i>Salpornis spilonotos</i>	1841	R	U	टिपकेदार राखी खोडपक्षी

**MOTACILLIDAE : Pipits Wagtails**

240	Tree pipit	<i>Anthus hidgsoni</i>	1852	W	U	वृक्षीय चरचरी
241	Paddyfield pipit	<i>Anthus navaeseelandiae</i>	1859	R	C	पाणथळ चरचरी
242	Yellowheaded Wagtail	<i>Motacilla citreola</i>	1883	W	C	पिवळ्या डोक्याचा परीट
243	Grey Wagtail	<i>Motacilla cinerea</i>	1884	W	C	राखी परीट
244	White or Pied Wagtail	<i>Motacilla alba dukhunensis</i>	1885	W	C	पांढरा परीट
245	White or Masked Wagtail	<i>Motacilla alba personata</i>	1886	W	C	बुरखेदार पांढरा परीट
246	Large Pied Wagtail	<i>Motacilla maderaspatensis</i>	1891	R	C	कवडया परीट

**DICAEIDAE : Flowerpeckers**

247	Thickbilled Flowerpecker	<i>Dicaeum agile</i>	1892	R	U	जाड चोचीचा पुष्पटोचा
248	Tickells Flowerpecker	<i>Dicaeum erythrorhynchos</i>	1899	R	U	टिकेलचा पुष्पटोचा

**NECTARINIDAE : Sunbirds, Spiderhunters**

249	Purplerumped Sunbird	<i>Nectarinia zeylonica</i>	1907	R	C	शिंजीर
250	Purple Sunbird	<i>Nectarinia asiatica</i>	1917	R	C	जांभळा सूर्यपक्षी

**ZOSTEROPIDAE : White-Eye**

251	White-Eye	<i>Zosterops palpebrosa</i>	1933	R	A	चश्मेवाला
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**PLOCEIDAE : Sparrows, Munias, Weaver Birds**

252	House Sparrow	<i>Passer domesticus</i>	1938	R	A	चिमणी
253	Yellowthroated Sparrow	<i>Petronia xanthocollis</i>	1949	R	C	पीतकंठी चिमणी
254	Baya	<i>Ploceus philippinus</i>	1957	R	U	सुगरण
255	Streaked Weaver Bird	<i>Ploceus manyar</i>	1962	R	U	पट्टेरी सुगरण
256	Red Munia or Avadavat	<i>Estrilda amandava</i>	1964	R	U	लाल मुनिया
257	Green Munia	<i>Estrilda farnosa</i>	1965	R	C	हिरवी मुनिया
258	Whitebacked Munia	<i>Lonchura striata</i>	1968	R	U	शुभ्रपाठी मुनिया
259	White throated Munia	<i>Lanchura malabarica</i>		M	C	
260	Spotted Munia	<i>Lonchura punctulata</i>	1974	R	C	ठिपकेदार मुनिया

**FRINGILLIDAE : Finches**

261	Common Rosefinch or Scarlet Grosbeak	<i>Carpodacus erythrinus</i>	2013	W	C	गुलाबी चटक
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**PSITTACIDAE : Parakeets**

262	Blackheaded Bunting	<i>Emberiza melanocephala</i>	2043	W	C	काळया डोक्याचा भारीट
263	Redheaded Bunting	<i>Emberiza bruniceps</i>	2044	W	C	लाल डोक्याचा भारीट
264	Greynecked Bunting	<i>Emberiza buchanani</i>	2050	W		राखी कंठाचा भारीट
265	Crested Bunting	<i>Melophus lathamii</i>		M	C	



**Appendix No. LXVIII**  
**Statement Showing Girthclass Wise Number Of Stems Per Hectare And Corresponding Volumes In Cubic Meter**  
**(Teak Plantation Working Circle)**

S. No.	Compt. No.	Area	Species	16/30	31/45	46/60	61/75	76/90	91/105	106/120	121/135	136/150	151/upn	Total
			Teak V/tree- in Cu. M.	0.008	0.025	0.024	0.098	0.184	0.318	0.382	0.621	0.624	0.624	2.908
			Non Teak V/tree in Cu.M.	0.008	0.025	0.037	0.122	0.221	0.334	0.457	0.593	0.730	0.730	3.257
1	204	322.53	Teak No. of Trees	57.41	41.05	24.69	20.37	11.11	18.52	15.74	13.58	5.25	1.85	209.57
			Teak V in Cu.M.	0.46	1.03	0.59	2.00	2.04	5.89	6.01	8.43	3.27	1.16	30.88
			Non Teak No. of Trees	95.68	40.12	25.31	24.69	23.15	21.60	10.49	8.64	10.49	2.16	262.35
			Non Teak V in Cu.M.	0.77	1.00	0.94	3.01	5.12	7.22	4.80	5.12	7.66	1.58	37.21
			Total No. of Trees	153.09	81.17	50.00	45.06	34.26	40.12	26.23	22.22	15.74	4.01	471.91
			Total V in Cu. M.	1.22	2.03	1.53	5.01	7.16	13.10	10.81	13.56	10.93	2.73	68.09
2	205	219.74	Teak No. of Trees	51.11	21.11	14.44	12.22	17.22	13.33	11.67	10.56	12.78	0.00	164.44
			Teak V in Cu.M.	0.41	0.53	0.35	1.20	3.17	4.24	4.46	6.56	7.97	0.00	28.88
			Non Teak No. of Trees	53.89	29.44	20.00	30.00	17.22	10.56	10.00	8.33	10.00	5.00	194.44
			Non Teak Vin Cu.M.	0.43	0.74	0.74	3.66	3.81	3.53	4.57	4.94	7.30	3.65	33.36
			Total No. of Trees	105.00	50.56	34.44	42.22	34.44	23.89	21.67	18.89	22.78	5.00	358.89
			Total V in Cu. M.	0.84	1.26	1.09	4.86	6.98	7.77	9.03	11.50	15.27	3.65	62.24
3	207	255.76	Teak No. of Trees	49.07	39.20	24.69	14.20	15.12	9.26	14.81	8.95	5.56	1.54	182.41
			Teak V in Cu.M.	0.39	0.98	0.59	1.39	2.78	2.94	5.66	5.56	3.47	0.96	24.73
			Non Teak No. of Trees	126.54	70.68	39.20	32.41	22.84	20.06	15.43	5.25	6.48	2.78	341.67
			Non Teak Vin Cu.M.	1.01	1.77	1.45	3.95	5.05	6.70	7.05	3.11	4.73	2.03	36.85
			Total No. of Trees	175.62	109.88	63.89	46.60	37.96	29.32	30.25	14.20	12.04	4.32	524.07
			Total V in Cu. M.	1.40	2.75	2.04	5.35	7.83	9.65	12.71	8.67	8.20	2.99	61.59

4	208	198.7	Teak No. of Trees	60.56	36.11	12.78	17.22	17.22	16.11	20.00	10.00	1.11	0.00	191.11
			Teak V in Cu.M.	0.48	0.90	0.31	1.69	3.17	5.12	7.64	6.21	0.69	0.00	26.22
			Non Teak No. of Trees	99.44	35.00	32.78	31.11	22.22	25.00	11.11	6.11	5.00	1.11	268.89
			Non Teak Vin Cu.M.	0.80	0.88	1.21	3.80	4.91	8.35	5.08	3.62	3.65	0.81	33.10
			Total No. of Trees	160.00	71.11	45.56	48.33	39.44	41.11	31.11	16.11	6.11	1.11	460.00
			Total V in Cu. M.	1.28	1.78	1.52	5.48	8.08	13.47	12.72	9.83	4.34	0.81	59.32
5	298	227.03	Teak No. of Trees	44.44	36.11	22.69	14.35	12.50	9.26	10.65	6.02	1.39	0.46	157.87
			Teak V in Cu.M.	0.36	0.90	0.54	1.41	2.30	2.94	4.07	3.74	0.87	0.29	17.41
			Non Teak No. of Trees	32.41	25.46	23.61	18.98	18.98	15.74	10.19	5.56	6.48	4.63	162.04
			Non Teak Vin Cu.M.	0.26	0.64	0.87	2.32	4.19	5.26	4.65	3.29	4.73	3.38	29.60
			Total No. of Trees	76.85	61.57	46.30	33.33	31.48	25.00	20.83	11.57	7.87	5.09	319.91
			Total V in Cu. M.	0.61	1.54	1.42	3.72	6.49	8.20	8.72	7.03	5.60	3.67	47.01
6	299	276.8	Teak No. of Trees	0.00	0.69	0.23	0.46	0.46	0.23	0.00	0.00	0.00	0.46	2.55
			Teak V in Cu.M.	0.00	0.02	0.01	0.05	0.09	0.07	0.00	0.00	0.00	0.29	0.52
			Non Teak No. of Trees	147.45	102.08	67.59	51.39	37.96	25.00	17.82	12.04	4.17	4.17	469.68
			Non Teak Vin Cu.M.	1.18	2.55	2.50	6.27	8.39	8.35	8.15	7.14	3.04	3.04	50.61
			Total No. of Trees	147.45	102.78	67.82	51.85	38.43	25.23	17.82	12.04	4.17	4.63	472.22
			Total V in Cu. M.	1.18	2.57	2.51	6.31	8.48	8.42	8.15	7.14	3.04	3.33	51.12
7	380	220.54	Teak No. of Trees	26.85	26.85	31.94	31.02	32.87	21.76	13.43	9.26	9.26	2.78	206.02
			Teak V in Cu.M.	0.21	0.67	0.77	3.04	6.05	6.92	5.13	5.75	5.78	1.73	36.05
			Non Teak No. of Trees	43.98	18.52	11.57	10.19	10.19	10.19	9.26	7.41	3.70	0.46	125.46
			Non Teak Vin Cu.M.	0.35	0.46	0.43	1.24	2.25	3.40	4.23	4.39	2.70	0.34	19.80
			Total No. of Trees	70.83	45.37	43.52	41.20	43.06	31.94	22.69	16.67	12.96	3.24	331.48
			Total V in Cu. M.	0.57	1.13	1.19	4.28	8.30	10.32	9.36	10.14	8.48	2.07	55.85

8	381	157.95	Teak No. of Trees	30.56	24.07	34.26	44.44	27.78	16.67	23.15	10.19	3.70	0.00	214.81
			Teak V in Cu.M.	0.24	0.60	0.82	4.36	5.11	5.30	8.84	6.33	2.31	0.00	33.91
			Non Teak No. of Trees	25.93	13.89	4.63	5.56	2.78	0.00	0.00	0.93	5.56	0.00	59.26
			Non Teak Vin Cu.M.	0.21	0.35	0.17	0.68	0.61	0.00	0.00	0.55	4.06	0.00	6.62
			Total No. of Trees	56.48	37.96	38.89	50.00	30.56	16.67	23.15	11.11	9.26	0.00	274.07
			Total V in Cu. M.	0.45	0.95	0.99	5.03	5.73	5.30	8.84	6.87	6.37	0.00	40.54
9	382	186.8	Teak No. of Trees	46.53	27.78	28.47	49.31	41.67	21.53	13.19	6.25	2.78	0.00	237.50
			Teak V in Cu.M.	0.37	0.69	0.68	4.83	7.67	6.85	5.04	3.88	1.73	0.00	31.75
			Non Teak No. of Trees	52.78	23.61	15.28	4.17	6.94	2.78	4.86	4.17	2.08	0.69	117.36
			Non Teak Vin Cu.M.	0.42	0.59	0.57	0.51	1.53	0.93	2.22	2.47	1.52	0.51	11.27
			Total No. of Trees	99.31	51.39	43.75	53.47	48.61	24.31	18.06	10.42	4.86	0.69	354.86
			Total V in Cu. M.	0.79	1.28	1.25	5.34	9.20	7.77	7.26	6.35	3.25	0.51	43.02
10	383	131.58	Teak No. of Trees	72.92	73.61	20.83	13.89	18.06	12.50	11.11	4.86	1.39	0.00	229.17
			Teak V in Cu.M.	0.58	1.84	0.50	1.36	3.32	3.98	4.24	3.02	0.87	0.00	19.71
			Non Teak No. of Trees	56.94	38.19	15.28	15.97	10.42	9.72	6.25	3.47	5.56	0.00	161.81
			Non Teak Vin Cu.M.	0.46	0.95	0.57	1.95	2.30	3.25	2.86	2.06	4.06	0.00	18.44
			Total No. of Trees	129.86	111.81	36.11	29.86	28.47	22.22	17.36	8.33	6.94	0.00	390.97
			Total V in Cu. M.	1.04	2.80	1.07	3.31	5.62	7.22	7.10	5.08	4.92	0.00	38.16
11	387	147.51	Teak No. of Trees	11.11	25.00	8.33	22.22	47.22	16.67	8.33	8.33	2.78	0.00	150.00
			Teak V in Cu.M.	0.09	0.63	0.20	2.18	8.69	5.30	3.18	5.18	1.73	0.00	27.17
			Non Teak No. of Trees	22.22	13.89	13.89	16.67	11.11	5.56	2.78	5.56	0.00	0.00	91.67
			Non Teak Vin Cu.M.	0.18	0.35	0.51	2.03	2.46	1.86	1.27	3.29	0.00	0.00	11.95
			Total No. of Trees	33.33	38.89	22.22	38.89	58.33	22.22	11.11	13.89	2.78	0.00	241.67
			Total V in Cu. M.	0.27	0.97	0.71	4.21	11.14	7.16	4.45	8.47	1.73	0.00	39.12

12	393	180.11	Teak No. of Trees	26.79	21.43	23.61	25.20	34.72	28.37	16.87	8.93	1.98	0.60	188.49
			Teak V in Cu.M.	0.21	0.54	0.57	2.47	6.39	9.02	6.44	5.54	1.24	0.37	32.79
			Non Teak No. of Trees	40.28	27.18	17.86	11.90	6.35	9.33	4.96	3.37	1.79	1.98	125.00
			Non Teak Vin Cu.M.	0.32	0.68	0.66	1.45	1.40	3.11	2.27	2.00	1.30	1.45	14.65
			Total No. of Trees	67.06	48.61	41.47	37.10	41.07	37.70	21.83	12.30	3.77	2.58	313.49
			Total V in Cu. M.	0.54	1.22	1.23	3.92	7.79	12.14	8.71	7.54	2.54	1.82	47.45
13	408	186.55	Teak No. of Trees	39.17	28.61	29.72	27.50	29.72	17.78	14.17	12.22	6.67	1.39	206.94
			Teak V in Cu.M.	0.31	0.72	0.71	2.70	5.47	5.65	5.41	7.59	4.16	0.87	33.59
			Non Teak No. of Trees	45.83	23.89	9.72	6.67	13.89	8.89	8.06	6.39	7.22	3.61	134.17
			Non Teak Vin Cu.M.	0.37	0.60	0.36	0.81	3.07	2.97	3.68	3.79	5.27	2.64	23.55
			Total No. of Trees	85.00	52.50	39.44	34.17	43.61	26.67	22.22	18.61	13.89	5.00	341.11
			Total V in Cu. M.	0.68	1.31	1.07	3.51	8.54	8.62	9.09	11.38	9.43	3.50	57.14
14	409	163.49	Teak No. of Trees	33.59	25.00	20.20	21.72	28.03	15.40	12.37	5.81	1.77	0.51	164.39
			Teak V in Cu.M.	0.27	0.63	0.48	2.13	5.16	4.90	4.73	3.61	1.10	0.32	23.31
			Non Teak No. of Trees	27.22	13.61	13.61	10.56	15.56	13.06	5.00	3.89	5.83	2.50	110.83
			Non Teak Vin Cu.M.	0.22	0.34	0.50	1.29	3.44	4.36	2.29	2.31	4.26	1.83	20.82
			Total No. of Trees	60.81	38.61	33.81	32.27	43.59	28.46	17.37	9.70	7.60	3.01	275.23
			Total V in Cu. M.	0.49	0.97	0.99	3.42	8.60	9.26	7.01	5.91	5.36	2.14	44.14
15	412	183.32	Teak No. of Trees	42.28	50.62	31.17	25.00	15.74	21.60	17.59	9.88	12.04	2.16	228.09
			Teak V in Cu.M.	0.34	1.27	0.75	2.45	2.90	6.87	6.72	6.13	7.51	1.35	36.28
			Non Teak No. of Trees	45.68	37.35	21.60	13.58	9.26	15.43	5.86	7.10	5.56	2.78	164.20
			Non Teak Vin Cu.M.	0.37	0.93	0.80	1.66	2.05	5.15	2.68	4.21	4.06	2.03	23.93
			Total No. of Trees	87.96	87.96	52.78	38.58	25.00	37.04	23.46	16.98	17.59	4.94	392.28
			Total V in Cu. M.	0.70	2.20	1.55	4.11	4.94	12.02	9.40	10.34	11.57	3.38	60.21

16	413	190.2	Teak No. of Trees	20.68	14.20	8.95	7.72	8.02	14.51	11.11	6.48	12.96	1.23	105.86
			Teak V in Cu.M.	0.17	0.35	0.21	0.76	1.48	4.61	4.24	4.03	8.09	0.77	24.71
			Non Teak No. of Trees	12.65	8.02	6.79	9.88	8.02	8.33	7.41	4.94	4.94	2.16	73.15
			Non Teak Vin Cu.M.	0.10	0.20	0.25	1.20	1.77	2.78	3.39	2.93	3.60	1.58	17.81
			Total No. of Trees	33.33	22.22	15.74	17.59	16.05	22.84	18.52	11.42	17.90	3.40	179.01
			Total V in Cu. M.	0.27	0.56	0.47	1.96	3.25	7.40	7.63	6.95	11.69	2.35	42.52
17	426	204.76	Teak No. of Trees	50.83	45.56	30.00	22.78	24.17	22.78	26.39	17.22	13.89	11.11	264.72
			Teak V in Cu.M.	0.41	1.14	0.72	2.23	4.45	7.24	10.08	10.70	8.67	6.93	52.56
			Non Teak No. of Trees	80.83	56.39	25.83	15.56	13.33	11.94	7.50	2.78	1.67	6.11	221.94
			Non Teak Vin Cu.M.	0.65	1.41	0.96	1.90	2.95	3.99	3.43	1.65	1.22	4.46	22.60
			Total No. of Trees	131.67	101.94	55.83	38.33	37.50	34.72	33.89	20.00	15.56	17.22	486.67
			Total V in Cu. M.	1.05	2.55	1.68	4.13	7.39	11.23	13.51	12.34	9.88	11.39	75.16
18	427	187.36	Teak No. of Trees	51.11	42.78	30.00	33.33	33.33	21.11	22.22	16.11	7.78	8.33	266.11
			Teak V in Cu.M.	0.41	1.07	0.72	3.27	6.13	6.71	8.49	10.01	4.85	5.20	46.86
			Non Teak No. of Trees	67.78	33.33	12.78	10.56	6.67	5.00	3.89	2.22	1.67	3.33	147.22
			Non Teak Vin Cu.M.	0.54	0.83	0.47	1.29	1.47	1.67	1.78	1.32	1.22	2.43	13.02
			Total No. of Trees	118.89	76.11	42.78	43.89	40.00	26.11	26.11	18.33	9.44	11.67	413.33
			Total V in Cu. M.	0.95	1.90	1.19	4.55	7.61	8.38	10.27	11.32	6.07	7.63	59.88
19	428	193.03	Teak No. of Trees	30.00	20.00	21.67	25.56	27.22	21.11	19.44	13.33	6.11	10.00	194.44
			Teak V in Cu.M.	0.24	0.50	0.52	2.50	5.01	6.71	7.43	8.28	3.81	6.24	41.25
			Non Teak No. of Trees	80.00	37.78	16.11	12.22	10.56	11.11	7.22	0.56	1.11	6.67	183.33
			Non Teak Vin Cu.M.	0.64	0.94	0.60	1.49	2.33	3.71	3.30	0.33	0.81	4.87	19.02
			Total No. of Trees	110.00	57.78	37.78	37.78	37.78	32.22	26.67	13.89	7.22	16.67	377.78
			Total V in Cu. M.	0.88	1.44	1.12	4.00	7.34	10.42	10.73	8.61	4.62	11.11	60.27

20	432	159.34	Teak No. of Trees	43.98	28.24	15.28	7.41	19.91	18.52	14.81	15.28	11.57	2.31	177.31
			Teak V in Cu.M.	0.35	0.71	0.37	0.73	3.66	5.89	5.66	9.49	7.22	1.44	35.52
			Non Teak No. of Trees	75.00	27.78	11.11	8.33	8.80	10.65	4.63	3.70	6.02	2.78	158.80
			Non Teak Vin Cu.M.	0.60	0.69	0.41	1.02	1.94	3.56	2.12	2.20	4.39	2.03	18.96
			Total No. of Trees	118.98	56.02	26.39	15.74	28.70	29.17	19.44	18.98	17.59	5.09	336.11
			Total V in Cu. M.	0.95	1.40	0.78	1.74	5.61	9.45	7.78	11.68	11.62	3.47	54.47
21	433	160.08	Teak No. of Trees	36.39	15.97	12.08	15.14	16.81	14.86	14.17	9.44	2.64	1.53	139.03
			Teak V in Cu.M.	0.29	0.40	0.29	1.48	3.09	4.73	5.41	5.87	1.65	0.95	24.16
			Non Teak No. of Trees	76.39	37.08	19.72	12.36	14.31	8.33	5.28	2.08	0.69	1.94	178.19
			Non Teak Vin Cu.M.	0.61	0.93	0.73	1.51	3.16	2.78	2.41	1.24	0.51	1.42	15.29
			Total No. of Trees	112.78	53.06	31.81	27.50	31.11	23.19	19.44	11.53	3.33	3.47	317.22
			Total V in Cu. M.	0.90	1.33	1.02	2.99	6.25	7.51	7.82	7.10	2.15	2.37	39.45
22	435	166.32	Teak No. of Trees	52.18	29.37	21.63	19.84	20.04	19.25	11.31	6.55	2.98	1.98	185.12
			Teak V in Cu.M.	0.42	0.73	0.52	1.94	3.69	6.12	4.32	4.07	1.86	1.24	24.90
			Non Teak No. of Trees	57.54	29.76	18.85	13.10	10.52	7.54	6.55	2.38	2.38	1.59	150.20
			Non Teak Vin Cu.M.	0.46	0.74	0.70	1.60	2.32	2.52	2.99	1.41	1.74	1.16	15.64
			Total No. of Trees	109.72	59.13	40.48	32.94	30.56	26.79	17.86	8.93	5.36	3.57	335.32
			Total V in Cu. M.	0.88	1.48	1.22	3.54	6.01	8.64	7.31	5.48	3.60	2.40	40.55
23	436	169.15	Teak No. of Trees	66.67	33.73	16.67	28.57	14.68	12.30	10.32	4.76	1.98	0.40	190.08
			Teak V in Cu.M.	0.53	0.84	0.40	2.80	2.70	3.91	3.94	2.96	1.24	0.25	19.57
			Non Teak No. of Trees	65.48	42.86	19.84	15.87	13.89	7.94	5.95	3.57	2.38	1.59	179.37
			Non Teak Vin Cu.M.	0.52	1.07	0.73	1.94	3.07	2.65	2.72	2.12	1.74	1.16	17.72
			Total No. of Trees	132.14	76.59	36.51	44.44	28.57	20.24	16.27	8.33	4.37	1.98	369.44
			Total V in Cu. M.	1.06	1.91	1.13	4.74	5.77	6.56	6.66	5.08	2.98	1.41	37.30

24	439	192.44	Teak No. of Trees	42.26	43.25	35.12	45.83	43.06	23.81	13.69	2.98	0.20	0.00	250.20
			Teak V in Cu.M.	0.34	1.08	0.84	4.49	7.92	7.57	5.23	1.85	0.12	0.00	29.45
			Non Teak No. of Trees	57.94	25.40	12.90	9.72	5.95	2.98	4.76	2.38	0.79	1.19	124.01
			Non Teak Vin Cu.M.	0.46	0.63	0.48	1.19	1.32	0.99	2.18	1.41	0.58	0.87	10.11
			Total No. of Trees	100.20	68.65	48.02	55.56	49.01	26.79	18.45	5.36	0.99	1.19	374.21
			Total V in Cu. M.	0.80	1.72	1.32	5.68	9.24	8.57	7.41	3.26	0.70	0.87	39.56
25	441	194.65	Teak No. of Trees	23.15	26.54	22.99	22.84	18.21	14.04	14.81	6.17	6.17	3.24	158.18
			Teak V in Cu.M.	0.19	0.66	0.55	2.24	3.35	4.47	5.66	3.83	3.85	2.02	26.82
			Non Teak No. of Trees	35.34	22.38	11.88	7.10	3.55	3.55	2.78	1.85	1.85	2.78	93.06
			Non Teak Vin Cu.M.	0.28	0.56	0.44	0.87	0.78	1.19	1.27	1.10	1.35	2.03	9.86
			Total No. of Trees	58.49	48.92	34.88	29.94	21.76	17.59	17.59	8.02	8.02	6.02	251.23
			Total V in Cu. M.	0.47	1.22	0.99	3.10	4.14	5.65	6.93	4.93	5.20	4.05	36.69
26	442	137.59	Teak No. of Trees	19.44	13.89	19.44	34.26	34.72	27.31	16.20	7.87	4.63	1.85	179.63
			Teak V in Cu.M.	0.16	0.35	0.47	3.36	6.39	8.69	6.19	4.89	2.89	1.16	34.52
			Non Teak No. of Trees	55.09	37.04	13.43	9.26	9.72	5.09	5.56	2.78	0.93	3.24	142.13
			Non Teak Vin Cu.M.	0.44	0.93	0.50	1.13	2.15	1.70	2.54	1.65	0.68	2.37	14.07
			Total No. of Trees	74.54	50.93	32.87	43.52	44.44	32.41	21.76	10.65	5.56	5.09	321.76
			Total V in Cu. M.	0.60	1.27	0.96	4.49	8.54	10.39	8.73	6.53	3.56	3.52	48.59
27	443	180.88	Teak No. of Trees	39.81	25.00	18.21	21.60	27.47	21.60	13.89	11.11	8.64	1.85	189.20
			Teak V in Cu.M.	0.32	0.63	0.44	2.12	5.05	6.87	5.31	6.90	5.39	1.16	34.18
			Non Teak No. of Trees	82.10	35.19	27.78	16.05	9.88	5.56	3.40	3.09	2.47	1.54	187.04
			Non Teak Vin Cu.M.	0.66	0.88	1.03	1.96	2.18	1.86	1.55	1.83	1.80	1.13	14.87
			Total No. of Trees	121.91	60.19	45.99	37.65	37.35	27.16	17.28	14.20	11.11	3.40	376.23
			Total V in Cu. M.	0.98	1.50	1.46	4.08	7.24	8.73	6.86	8.73	7.20	2.28	49.05

28	445	247.53	Teak No. of Trees	33.33	16.41	13.13	14.39	16.92	15.15	13.64	3.79	0.76	1.01	128.54
			Teak V in Cu.M.	0.27	0.41	0.32	1.41	3.11	4.82	5.21	2.35	0.47	0.63	19.00
			Non Teak No. of Trees	45.71	17.93	11.11	7.32	7.32	4.29	5.05	3.03	1.26	2.53	105.56
			Non Teak V in Cu.M.	0.37	0.45	0.41	0.89	1.62	1.43	2.31	1.80	0.92	1.84	12.04
			Total No. of Trees	79.04	34.34	24.24	21.72	24.24	19.44	18.69	6.82	2.02	3.54	234.09
	Total	5441.74	Total V in Cu. M.	0.63	0.86	0.73	2.30	4.73	6.25	7.52	4.15	1.39	2.47	31.04
		Average	Teak No. of Trees	39.37	29.72	21.19	22.80	23.36	17.33	14.47	8.78	5.31	2.02	184.35
		For	Teak V in Cu.M.	0.31	0.74	0.51	2.23	4.30	5.51	5.53	5.45	3.32	1.26	29.17
		T. P.	Non Teak No. of Trees	57.90	31.75	18.67	14.83	12.08	9.73	6.63	4.29	3.75	2.43	162.06
		W.C.	Non Teak V in Cu.M.	0.46	0.79	0.69	1.81	2.67	3.25	3.03	2.54	2.74	1.77	19.76
			Teak + Non teak No. of Trees	97.26	61.47	39.86	37.63	35.44	27.07	21.09	13.07	9.07	4.45	346.41
			Teak + Non teak Volume	0.78	1.54	1.20	4.04	6.97	8.76	8.55	8.00	6.06	3.03	48.93



**Appendix No. LXIX**

**TEAK SITE QUALITYWISE LOCAL VOLUME TABLE : QUARTER GIRTH MEASUREMENTS (Prepared by FDCM)**

*(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 & I/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	0.1	0.003	0.006	0.008	0.1	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	1.36	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
165/180	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	165/180
181/195	187.5			1.73	2.055			0.75	0.595					181/195
196/210	202.5			2.01	2.39			0.99	0.83					196/210
211/225	217.5			2.32	2.75			1.18	1.05					211/225
226/240	232.5				3.08				1.42					226/240
241/255	247.5				3.33				1.97					241/255
255/270	262.5				3.52				2.68					255/270

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

**Appendix No. LXX**

**Statement Showing Treatment Types And Their Areas In Each  
Compartment Of East Melghat Forest Division**

Compartments	Treatment types					Grand Total
	A1	A2	B	C	D	
1	2	3	4	5	6	7
1	79.3821	8.7496	34.7955		9.7911	132.7183
10	37.4765	34.3305	71.9674		59.0885	202.8629
1033	114.4100	33.9539	130.4780	7.2220	67.2698	354.1164
1034	114.6408	23.2570	32.9307		39.6268	210.4627
1035	103.8297	21.9237	33.6260		41.5886	200.9680
1036	134.5448	9.8480	6.3022		22.7529	173.4528
1037	94.8799	15.5166	17.9849		34.4444	162.8259
1038	108.2751	14.0460	8.2753		20.8788	151.4892
1039	161.6317	14.9497	17.5529	0.4786	34.1504	228.7634
1040	135.0036	22.7494	14.7885	1.3301	30.8983	204.7699
1041	237.0523	15.1743	5.8165		29.6472	287.7007
1042	175.7929	11.1998	18.9649		37.2807	243.2383
1043	140.5921	18.5762	59.5144	9.3085	42.1277	270.3062
1044	114.9867	15.5657	56.8624	0.3820	41.9625	229.8451
1045	85.2707	14.1320	37.1596		42.8817	179.4440
1046	118.4808	10.2744	16.8278		22.7890	168.3720
1047	159.4334	28.0668	33.5919		46.7246	267.8166
1048	175.5775	27.4856	18.9759		52.0273	274.0663
1049	130.7193	20.2331	24.3489		60.7496	236.0509
1050	161.2009	33.5123	8.6813		79.5491	282.9436
1051	110.6396	36.0322	18.5359		96.6088	261.8166
1052	90.2376	38.2117	60.9124		77.1654	266.5271
1053	45.2452	15.5232	53.5743		41.5586	155.9014
1054	95.0502	45.1619	114.2162		56.1058	310.5341
1055	56.4680	23.2591	102.6920		31.0829	213.5020
1056	61.6222	25.5547	44.0385	0.4758	72.3684	204.0597
1057	175.1677	35.6446	45.5291	0.1772	65.1629	321.6814
1058	147.5586	32.7522	67.3556		45.6594	293.3259
1059	99.0126	16.4164	62.6853		23.1538	201.2681
1060	98.5311	11.3042	25.0754	1.9189	18.5229	155.3525
1061	127.8497	19.1186	37.3916		51.7663	236.1263

1	2	3	4	5	6	7
1062	115.7777	12.1038	35.5099		32.5984	195.9898
1063	60.9988	10.1867	59.3519		43.7955	174.3328
1064	119.4104	27.3904	73.9436	3.6321	41.4652	265.8417
1065	37.3103	16.6833	93.7337	4.6599	17.7352	170.1223
1066	99.7166	22.7925	94.6641	8.4401	26.8295	252.9582
1067	86.4990	13.6636	71.9269	4.4212	49.7266	226.5640
1068	141.5686	37.6769	113.1193	4.8157	54.2615	351.7183
1069	82.2854	13.6880	28.9411		23.8605	148.7750
1070	107.3924	36.1181	107.1214	13.6917	54.3012	319.1219
11	96.1177	34.3562	74.0098		35.5850	240.0687
12	219.7502	13.0503	17.1648	0.0715	33.0377	283.0745
13	87.9422	14.4698	23.8106		29.8777	156.1002
14	214.3223	17.2311	8.8439		28.7467	269.1441
15	114.7130	15.5082	32.5722		31.3225	194.1158
16	127.6817	21.9748	37.8592		74.5374	262.0530
17	246.7378	30.9625	72.8415		51.0132	401.6907
18	337.6682	39.1995	115.3715		55.6070	547.8462
19	381.0799	26.8368	21.8681		61.4268	491.2116
194	105.1800	20.6755	5.4650		77.6988	209.0369
195	70.9213	12.7425	0.5997		56.3172	140.5817
196	111.8487	19.6098	1.4878		67.0939	200.0855
197	146.8765	16.0942	0.1927		49.6908	212.8679
198	56.4179	10.8613	1.6618		75.1968	144.1378
199	353.6041	30.8596	2.4709		100.3557	487.5273
2	59.6322	19.0691	40.6350		22.1358	141.7335
20	189.8585	18.0999	43.1938	0.0400	47.7176	298.9098
200	186.1718	20.4738	1.5068		61.7811	269.9335
201	176.3170	17.2054	0.8094		79.0253	273.6917
202	166.6748	11.3328	0.4765		33.0119	211.5285
203	160.8734	14.4673	2.4914		33.5768	211.5649
204	119.4059	42.0030	2.8821	0.5828	149.1512	314.0574
205	96.9735	14.9867	5.4632		85.7055	203.4169
207	83.6141	15.5005	6.2679		146.8146	252.7292
208	81.1059	11.0755	0.8177		101.0694	194.6352
21	281.9293	17.4724	27.9925		38.8562	366.2505
22	106.1623	31.0452	34.7324		58.4716	230.4115
23	264.4033	21.9617	85.7863		39.5630	411.7143
24	228.7608	6.1969	6.7791		12.0864	253.8232

1	2	3	4	5	6	7
24L	42.0265	2.2022	11.1734		13.2133	68.6153
24R	110.9081	6.8837	8.6459		23.7992	150.2369
25	253.7016	47.5710	85.1690		66.2554	452.6969
26	494.2294	42.3358	15.5334		32.7314	584.8301
27	218.2258	26.0245	103.5924		81.7145	429.5571
28	373.4886	54.0929	88.4623	2.0897	58.9810	578.1770
29	223.0851	21.8729	17.5110		38.3103	300.7792
298	72.0021	18.0360	2.7195	10.9301	104.0997	208.3093
299	78.8674	33.2450	9.6408		158.1089	280.5195
3	82.9606	19.7036	35.4009		13.5310	151.6981
30	327.6919	37.8203	82.1290		50.2793	497.9234
31	242.3600	50.7198	81.6902		69.2851	444.0552
32	467.5484	39.4268	53.6519	0.6822	85.6362	646.9454
33	135.0598	18.7008	71.7458	0.5031	19.1149	245.1593
337	20.4909	9.3639	12.3637		40.1658	82.6117
339	24.9759	18.1256	32.6570		50.6822	126.4723
34	48.4747	6.9011	13.2512		7.3951	76.0220
340	5.3335	16.3275	68.9624		27.0423	117.6715
341	18.8923	17.7124	18.8160		118.9001	174.3928
342	39.7216	24.4347	27.8954		76.0134	168.0651
343	41.4676	15.3231	7.5738		58.8091	123.1737
344	63.3404	26.2763	16.0037		65.9373	172.0079
345	69.2642	20.7593	6.4061		70.8442	167.2737
346	54.7434	16.5882	19.1137		26.4510	117.0718
347	90.4656	22.5151	16.6731		60.7593	190.4131
348	90.2508	19.1963	10.5766		47.7095	167.7332
349	56.4488	31.5961	10.4614		42.2948	140.9584
350	68.7413	13.8313	11.9316		47.8797	142.4533
351	80.6470	21.3736	21.0601		70.2929	193.3735
352	72.6231	21.8640	17.0514		57.2730	168.8115
353	75.3843	13.5920	9.8072		47.8685	146.6520
354	42.2754	14.8242	10.5060	0.0738	58.5456	126.2250
355	15.4446	8.7764	16.6173		52.4512	93.2900
356	17.8972	19.5233	16.4308	2.9473	78.6056	135.4043
357	81.0606	18.3390	14.6347		28.7312	142.7656
358	60.0469	24.7919	16.4911		60.1314	161.4613
359	88.0137	27.8916	15.1121		101.7197	233.0170
360	47.0985	22.8974	21.5719		51.9858	143.9594

1	2	3	4	5	6	7
361	21.4628	21.0755	19.6638		68.5797	130.7817
362	37.3752	14.8155	28.6685		91.7793	172.6385
363	23.6910	12.5943	10.9594		50.3884	97.6330
364	43.7893	21.1395	17.7409		108.3752	191.0449
365	32.3698	8.0471	9.2265	0.2456	57.1532	107.4136
366	24.9037	16.0540	39.8569	5.8404	34.9572	121.6256
367	19.5372	33.5694	37.9656		96.9845	188.0568
368	53.5826	18.1212	19.8503	3.0885	73.3598	168.0023
369	55.5055	28.4324	20.3696		35.2196	139.5271
370	14.8885	22.5403	55.9276		38.8521	132.2086
371	34.6893	12.1401	35.2420		38.1682	120.2395
372	40.0107	22.2046	40.7809		72.9338	175.9300
373	23.8576	10.0752	29.5194		44.6422	108.0945
374	37.7132	17.4324	32.1663		74.3364	161.6483
375	43.5960	20.8895	42.5080		49.7386	156.7321
376	38.1865	26.2634	39.6676		80.3764	184.8517
377	42.4673	14.4135	49.0120		44.5762	150.5389
378	54.5777	20.2091	52.3275		77.6476	204.7625
379	35.5424	13.8807	52.9379		30.6286	132.9896
38	45.5848	2.0943	8.7966		30.6498	87.1600
380	4.7890	22.0788	120.5380		63.4411	210.8470
381	32.6822	15.6228	63.8017		50.9149	163.0216
382	49.0094	12.8218	28.9401		73.5163	164.2876
384	22.2878	12.2095	25.9842		46.4263	106.9078
385	17.9921	10.9633	22.1514		61.0992	112.3670
386	42.5490	27.7187	93.9747		119.9368	284.6586
387	18.2530	14.2136	34.3265		78.7259	145.5704
388	66.6465	20.3538	58.4785		47.4600	193.0581
389	24.0487	37.9842	59.0437		34.8854	155.9972
39	226.0825	23.7025	8.7461		83.5642	342.0984
390	16.9691	12.1437	51.7159		33.9641	114.7927
391	20.3120	13.9595	46.6977		59.2653	140.2345
392	33.4737	23.4684	63.8374		51.9942	172.7737
393	24.1217	21.6753	65.0416		76.0079	186.8464
394	61.0877	22.7464	29.4892		58.3341	171.6575
395	36.6449	20.3425	12.4557		115.3905	184.8336
396	89.8223	18.5886	9.2046		57.0064	174.6906
397	35.7281	23.6968	7.1745		66.5933	133.3445

1	2	3	4	5	6	7
4	85.2307	12.0799	15.2910		9.5366	122.3810
40	152.0739	29.8879	11.6934		85.0874	278.8734
401	75.3854	14.9662	9.4149		42.5566	142.5096
404	52.7825	13.9738	5.1483		70.5301	142.9786
405	70.0408	15.1715	4.8138		56.5995	146.6256
406	76.0562	18.1633	1.8121		68.6901	164.8188
407	75.9328	16.4900	6.4210		73.6005	172.4443
408	63.1577	18.0876	2.2241		97.4610	180.9304
409	24.5448	18.8184	18.2788		104.2836	165.9256
410	19.5462	20.2753	40.1542		78.9174	158.8931
411	17.4263	21.0465	25.6695		79.3104	143.4527
412	44.7682	19.9306	22.2247		99.5232	186.4466
413	57.3013	16.8939	0.5275		113.9826	188.7053
414	79.4363	16.3047	1.2764		59.6710	156.6884
415	86.6599	10.8778	5.5328		55.3777	158.4482
416	80.0534	12.4710	4.1092		82.4814	179.4657
417	97.8669	16.3079	10.4633		49.0651	174.0459
421	55.5409	18.5300	16.4162		98.0691	188.7043
422	44.3500	10.4161	5.3572		49.5873	110.0010
423	50.9549	12.2976	9.1476		95.6673	168.0674
424	99.4277	15.7045	7.8483		77.7973	200.7778
425	57.4095	30.6610	14.2034		145.5420	247.8159
426	29.4805	17.3534	56.8190		93.9830	197.6359
427	14.9578	23.4857	67.6282		75.9278	182.1864
428	27.6947	14.8012	45.2032		104.2870	191.9964
429	51.2033	37.7785	89.6296		49.1430	227.7942
43	82.5371	2.6909	0.7589		6.7059	92.7476
430	28.4773	16.2815	82.9034		42.2135	169.8757
431	19.3869	24.8966	71.0113		76.7961	192.0919
432	35.6265	17.2532	38.2009		60.9074	151.9879
433	9.2892	23.6944	60.2672		67.0263	160.2771
434	30.0176	27.3192	71.3895		59.2095	187.9359
435	26.8714	22.5481	36.6179		84.5028	170.5402
436	25.4587	24.0358	57.4614		64.2888	171.2447
437	15.7355	15.2691	27.3915		68.3277	126.7238
438	5.0198	18.0157	28.4492		94.6125	146.0973
439	25.7631	23.6157	47.9864		108.7600	206.1253
44	109.0144	27.8378	28.5844		74.9672	240.4820

1	2	3	4	5	6	7
440	37.0383	18.5399	54.3257		41.5614	151.5338
441	25.0541	18.9125	71.8201		62.1859	178.1389
442	35.6400	15.8658	56.1409		35.9911	143.6379
443	44.6447	24.8596	76.3456		32.6115	178.4614
444	18.5762	22.0040	64.0946		52.6329	157.4448
445	30.7186	32.3781	125.8969		44.6502	233.8124
446	28.8588	11.8439	72.3499		26.5110	139.5636
447	30.1927	22.5340	90.6410		30.3998	173.9110
448	3.1138	19.1186	81.7323		17.3809	121.4260
449	21.8423	25.0828	110.9418		27.7826	185.6921
45	140.1554	42.4495	66.0986		64.7659	313.4694
450	17.2828	24.6182	90.3076		19.3552	151.6879
451	17.5187	22.2319	88.9109		27.6288	156.3684
452	10.3048	25.3410	82.7773		17.4532	135.9245
453	28.6390	12.4643	66.8109		57.4329	165.5565
454	31.2101	12.3366	44.7160		59.1064	147.4284
455	25.5504	14.7078	44.3971		44.0690	128.8081
456	12.5759	38.7470	105.0513		39.3358	196.2761
46	6.3067	33.7927	38.0387		35.4953	113.6333
47	135.2780	23.2312	26.4817		43.1774	228.1684
48	61.8269	20.1005	27.2881		53.4284	162.6439
49	86.9039	33.5860	81.6745		134.9913	337.1557
5	30.1302	16.0707	73.2295	0.3590	10.4877	131.0532
50	134.3330	29.0553	37.6076		76.6031	277.5990
51	160.6921	28.0013	59.0536		94.3489	342.1137
52	128.0396	13.4703	29.7805		36.8760	208.1664
53	83.4681	12.2684	46.6682		65.4757	207.8805
54	128.2185	15.4704	30.6386		51.2058	225.5333
55	126.0564	14.9753	29.6875		64.9417	235.6609
56	108.6185	6.1313	9.9355		31.1092	155.7944
57	40.4722	12.8106	12.6014		40.8105	106.6947
58	83.2703	13.2309	16.0054		65.4484	177.9550
59	53.1134	11.1888	0.6495		43.3603	108.3120
6	157.5006	50.8079	206.2711	0.0560	37.9959	453.3446
60	71.1313	11.6410	7.2532		77.6370	167.6625
61	67.2286	7.7343	11.0072	1.5403	33.7826	121.2930
62	102.2155	5.8914	4.8186		39.3187	152.2443
63	120.0804	16.5233	3.8898	0.8627	32.2574	173.6137

1	2	3	4	5	6	7
64	83.2180	5.1676	12.8360		13.7150	114.9367
65	158.8308	7.8883	18.3408		10.5418	195.6018
66	164.9912	6.8501	9.5616		19.7891	201.2242
67	156.4104	7.9857	6.4964		21.8932	192.8109
68	124.0853	7.7306	15.2965		28.9837	176.3409
69	90.6474	8.8484	15.6871		26.2680	141.8131
7	283.3335	37.6333	148.9513	3.1455	67.3320	540.5950
70	55.0884	9.9511	22.5627		31.6236	119.2259
71	64.3018	4.4626	0.7751		21.9190	91.7194
72	159.2764	9.3727	6.6824		41.9593	217.4762
73	142.1853	10.5136	15.9214		52.9691	221.5894
74	139.1737	11.7606	0.0696	5.6254	39.1212	195.9003
75	163.2502	18.1750	3.1393		77.4208	262.5300
76	138.9687	13.1469	1.5792		70.3783	224.1735
77	94.4435	19.7646	2.6076		61.9220	178.7379
78	139.6487	9.2747	1.1660		56.3603	206.4497
79	140.6487	18.7678	0.8409	7.2297	59.1627	226.6498
790	208.7934	16.9425	0.6120		31.6619	258.0098
791	249.2885	31.4425	4.5693		95.8697	381.1701
792	138.2406	19.9885	11.6002		54.9058	224.7590
793	147.7437	15.5603	8.5785		48.1814	220.1078
8	283.2638	62.7623	251.2218	20.2693	34.6884	653.2283
80	187.9644	6.5972	0.7607	1.2411	22.0560	218.6194
81	133.0681	12.7489			57.5477	203.3647
82	109.6737	16.8437	12.4448		77.8629	216.8250
83	83.9764	9.9059	13.0295	5.5067	59.3762	171.7947
84	23.4830	15.5202	9.2906		83.7366	132.0304
85	67.4221	22.4919	0.4757	18.2193	81.6363	190.2453
86	138.3165	12.9609	0.2205		35.0524	186.5504
87	129.8954	13.7505	0.2904		40.1672	184.1035
88	151.7313	11.7967	0.5599		44.5335	208.6213
89	163.5029	11.6028	1.1267		27.6659	203.8996
9	205.5359	26.2604	40.9921		52.9480	325.7364
90	81.3605	18.1940	2.3910		94.7928	196.7585
91	100.4202	42.1338	4.0280	34.8191	101.1039	282.5116
949	120.8213	13.0470	3.4099	0.8304	55.9944	194.1382
950	78.2811	20.7254	11.6967		33.4126	144.1158
951	156.0000	19.7071	8.0085		48.1588	231.8744

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
952	176.6614	18.2642	0.7016		58.7869	254.4143
953	170.2271	17.4021	2.3395	24.5278	42.4513	257.0299
954	106.9827	16.1733	2.7719	1.0561	51.0666	178.1293
955	126.7192	18.5405	8.8763	13.0632	46.3083	213.6757
<b>Grand Total</b>	<b>25639.5110</b>	<b>5244.7967</b>	<b>9056.4170</b>	<b>226.4006</b>	<b>14693.7797</b>	<b>54882.2164</b>



Appendix No. LXXI

The Guidelines Issued By PCCF(P&M) on  
Natural Regeneration Techniques.

1

**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS,  
(HoFF) MAHARASHTRA STATE, NAGPUR**  
Van Bhawan, Ramgiri Road, Civil Lines, Nagpur 440001.

No.D-14/WP/NR&AR/(13-14)/ 721 /13-14  
Nagpur, dated 25/10/2013.

Conservator of Forest  
Working Plan,  
Amravati

To, Chief Conservator of Forests (T) (All)  
To, Chief Conservator of Forests,  
Working Plans (All)  
To, Conservator of Forest,  
Working Plan, (All)

वनसंरक्षक  
कार्य. आयोजना विभाग  
अमरावती यांचे कार्यालय  
बौद्धिक क्रमांक 410. ---  
दिनांक 25/10/13

Sub :- Guidelines for carrying out Natural Regeneration, CBO and Cleaning works as per approved Working Plan.

Ref :- This Office Letter No. D-14/WP/NR&AR/(13-14)/708 /dated 24/10/2013.

With reference to this office letter cited above, it is inform you that a meeting was organized to discuss various practical aspects/problems in carrying out operation related to Natural Regeneration /CBO/ Cleaning in forest areas as per approved Working Plans in order to streamline these activities. In this meeting it has been emphasized on the maintenance of existing Natural Regeneration of ecologically valuable important species (both seed origin & coppice origin) and have been concluded that it is very important for protection & development of forests and to restore healthy growing stock & maintaining the overall stocking of forest. These seedlings have to survive overcoming all odds of natural calamity and adverse impacts. Conservation, care & maintenance of these seedlings would result in better Forest cover at low cost. It has also been emphasized that regeneration process is extremely important to restore the health and overall productivity of the forest.

2.00 The officers present in the meeting expressed their views/problems in respect of these activities in their circles/divisions and on the basis of above discussion, the officers present in the meeting unanimously opined to identify important valuable seedlings of seed origin & coppice origin shoots in the first year at the time of main felling & to carry out tending of NR & coppice shoot in B-type of area along with CBO works in harvested area (D-type) next year of main felling, which would give better result.

3.00 On the basis of discussions and decisions taken in the said meeting, following instructions are issued for implementation of Working Plan prescriptions to carry out Natural Regeneration works, CBO and Cleaning in working coupes.

1. For protection & development of natural regeneration of important species (both seed & coppice origin) as well as for management of malformed rooted stock/ shoots, tending of NR & rooted stock

have to be done properly & in proper time. Estimates will be prepared and technically sanctioned and administratively approved by Competent Authority as per G.R. No. MSC-2011/C.R.175/F-5 dated 30/9/2011. Plantation Registers will be maintained on the lines of AR areas.

2. All seedlings and saplings of seed origin of valuable species, more than 60 cm in height as well as healthy coppice shoots would be identified in the first year, which will be nursed as future crop. Spacing operations, if required, would be carried out to leave nearly 400 saplings per ha at an average of 5 m spacing. Spacing out operation may be in favour of ecologically valuable species and species rarely found in the area.
3. Tending of Natural Regeneration & coppice shoot management, Cut-back-operation (CBO) & Artificial Regeneration may be carried out in the next year of main felling.
4. All treatment type areas will be shown distinctively on the map, including the areas suitable for planting, areas having adequate promising natural regeneration & rooted stock and areas prone to soil erosion. For this purpose, grid maps (100 m X 100 m) with GPS reading should be used, which is available in respective Working Plan office.
5. Immediately, after completion of demarcation of the coupe, RFO should prepare the *Treatment map* of the coupe by clearly showing various *Treatment-type* areas by laying a base line and 100 m X 100 m grid on the ground as well as on the map. The concerned ACF will verify the treatment map and make corrections, if necessary, before submission to the DCF for approval.
6. The treatment map shall bear the date of preparation by the Range Forest Officer and the date of verification by the Assistant Conservator of Forests and their official seals and signature with name.
7. Preparation of treatment map may preferably be done one year in advance of the main felling. Timely preparation would facilitate necessary checking and corrections, if any in time.
8. Demarcation of areas & preparation of treatment map must be carried out under the close supervision of the RFO and under guidance of ACF concerned. DCF should himself inspect at least 50 % of coupes to ensure proper demarcation of areas suitable for *Natural Regeneration & Rooted Stock Management*.
9. *Coupe Demarcation Certificate* for Natural Regeneration should be given by RFO in prescribed format, which would be verified on ground for suitability of such areas for NR works by ACF & countersigned/attested.
10. Immediately after seeking approval of the treatment map, site-specific Work Plan for the entire coupe should be prepared by the RFO, verified by the ACF concerned and approved by the DCF.
11. Action Plan (Estimates) should be prepared for each working coupe on the basis of treatment prescribed for various *Treatment-types areas* marked on the treatment map and got approved by the competent authority, well before the start of main felling.
12. As per requirement of site, weeding, soil working should be proposed and it should be done after inspection *of site by CCF*. Model estimate for tending of NR as per the prescription of approved Working Plans should be approved by concerned CCF (T).
13. The areas poor in natural regeneration should be artificially regenerated by Teak, important miscellaneous species and Bamboo as per the actual site condition.

14. Involvement of JFMCs, giving benefit to JFMCs from cutback, stump dressing etc. should be considered as per government guidelines.
15. The natural regeneration should be assisted and encouraged by soil working and mulching around them, wherever needed as per provisions of approved Working Plan in the following manner.

**16. TENDING OF NATURAL REGENERATION.**

**First Year Operations i.e. subsequent to main felling year:** Weeds in one-meter diameter around saplings of valuable species should be cleared during the first week of July/ August. Uprooted weeds, grasses and leaf-litter should be mixed in the upper layer of soil as the organic mulch and facilitate loosening and aeration of the soil by worms and insects. One soil working should be carried out in October/ November.

**Second year operations:** The soil working should be repeated in the following year in the month of October in the seedlings of seed origin. However, one scrap weeding of one-meter diameter should be carried out in the first week of August/October around the shoots of seedlings of coppice origin within the rootstock management area.

**Third year operations:** Singling of coppice shoots, management of damaged and malformed saplings, climber cutting and shrub clearance should be repeated as third year operations.

17. **ROOT STOCK AND COPPICE MANAGEMENT:** In the areas where there are no sufficient seedlings of seed origin (*at least 400 healthy and established saplings*) are found, the existing root stock should be managed to increase the density and productivity of the crop. Preference should be given to encourage the ecologically valuable species. Tending of rootstock (ecologically valuable species) in the B-1 type may be carried out as following :

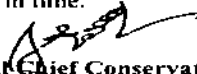
- **Singling of Coppice Shoots:** One healthy and promising coppice shoot will be retained on the stumps and the rest be removed. However, coppice shoots interfering with promising saplings of seed origin would be removed. Such coppice shoots should also be close enough to the ground so that it would not topple after gaining volume and weight and would be able to develop root system of its own subsequently.
- **Coppice Management of Damaged and Malformed Saplings:** The saplings and poles of up to 45 cm gbh having one third of the stem damaged and malformed should be coppiced by cutting flush to the ground. Such coppicing, however, should not expose the ground, causing erosion and leading to soil loss. Poles having at least 2.50 meter of clean bole would not be treated as malformed.

18. Instructions issued by the then APCCF (P &M) M.S., Nagpur dated 2<sup>nd</sup> July 2010 for demarcation & preparation of treatment map should be followed strictly. The letters issued in this regard from this office as well as from Government have been attached as **Annexure No. I**.
19. All such sites selected for Tending of Natural Regeneration & Root Stock and Coppice Management should be *geo-referenced on the digital map of that division by taking GPS reading* of at least four corners of the said site, which may be compared later with the Satellite imagery of division for any change in vegetation cover.

20. A proper record, in the form of NR Register, should be maintained at Range level as well as Division level regarding all activities of Regeneration. Records such as Register, No. of seedlings identified, cleaned saplings, maps, GPS reading, operations, photographs etc. should be maintained on regular basis.
21. All entries should be made in the relevant *Coupe Control Forms and Compartment History Forms*. In case of Artificial Regeneration, proper Plantation Registers should be maintained at Range as well as Division levels.
22. In Case of any deviation from the prescriptions of approved Working Plans, proposal for deviation should be submitted and got approved by competent authority in time.

Encl :- As above

Draft approved by PCCF (P & M) M.S., Nagpur

  
For, Principal Chief Conservator of Forests,  
(Production & Management) M.S. Nagpur.

Copy forwarded with compliments along with enclosures to :-

1. Principal Chief Conservator of Forests, (HoFF) M.S., Nagpur,
2. Principal Chief Conservator of Forests, (Wildlife) M.S., Nagpur.

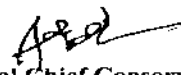
Copy along with enclosures forwarded to :-

1. Additional Principal Chief Conservator of Forests (CAMPA), M.S., Nagpur.
2. Additional Principal Chief Conservator of Forests (NTFP & Evaluation), M.S., Nagpur.
3. Additional Principal Chief Conservator of Forests (BP & D), M.S., Nagpur.
4. Additional Principal Chief Conservator of Forests (Conservation), M.S., Nagpur.
5. Additional Principal Chief Conservator of Forests & Nodal Officer, M.S., Nagpur.
6. Additional Principal Chief Conservator of Forests (R & U), M.S., Nagpur.
7. Additional Principal Chief Conservator of Forests (HRM & Subordinate Services), M.S., Nagpur.
8. Additional Principal Chief Conservator of Forests (IT, Policy & Strategic Planning), M.S., Nagpur.
9. Additional Principal Chief Conservator of Forests (Protection), M.S., Nagpur.
10. Additional Principal Chief Conservator of Forests, (Working Plan-East) Nagpur.
11. Additional Principal Chief Conservator of Forests, (Working Plan-West) Pune.
12. General Manager, WFP & Afforestation Region, FDCM Ltd., Nagpur

Copy along with enclosure forwarded to :-

1. Dy. Conservator of Forests (I) (All)

Draft approved by PCCF (P & M) M.S., Nagpur

  
For, Principal Chief Conservator of Forests,  
(Production & Management) M.S. Nagpur.

**Appendix No. LXXII**  
**The Guidelines Issued By CCF(T) Amravati**  
**On Beat Inspections.**

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- 556 -



मुख्य वनसंरक्षक (प्रादेशिक) अमरावती वनवृत्त, कॅम्प अमरावती -  
444602

ISO 9001: 2008 CERTIFIED OFFICE

कार्यालयीन दुरध्वनी 2662090/2662593. 2662680 (वैयक्तिक), फॅक्स-2663314

वनसंपर्क दुरध्वनी (निशुल्क) 155314 (फक्त लॅंड लाईन वरून संपर्कासाठी)

वेब साईट - [ccftamt.gov.in/](http://ccftamt.gov.in/) ई मेल पत्ता [ccftamravati@mahaforest.gov.in](mailto:ccftamravati@mahaforest.gov.in)

[/aticcfa@gmail.com](mailto:/aticcfa@gmail.com)

आदेश क्रमांक: ३७७


अमरावती, दि. ३१/१२/२०१४

विषय- नियत क्षेत्र तपासणी करतांना अवलंबावयाच्या कार्य पध्दतीबाबत.

शासन निर्णय क्रमांक टिआरएस-०४/२०१४/प्र.क्र ७२/फ-६, मुंबई, दि.१३ ऑगस्ट, २०१४ अन्वये वनसंरक्षणाचे मापदंड निर्धारित करण्यात आले आहे. त्यात इतर बाबी व्यतीरिक्त नियतक्षेत्र तपासणी संदर्भात सुचना देण्यात आलेल्या आहे. नियतक्षेत्र तपासणी करतांना वृत्तस्तरावर एकसुत्रता रहावी व नियतक्षेत्र तपासणीमुळे वनसंरक्षणाचे कामात सुधारणा व्हावी या दृष्टीने माहे जानेवारी २०१५ पासून तपासणीबाबत अवलंबावयाच्या कार्यपध्दतीबाबत पुढील निर्देश देण्यात येत आहेत.

१. कॅलेन्डर वर्षात नियतक्षेत्र तपासणी कार्यक्रम निर्धारित करतांना संबंधित वनपालाने ज्या महिन्यात तपासणी केली आहे त्या पुढील महिन्यात प्रादेशिक वनक्षेत्रपाल हे तपासणीसाठी जातील या दृष्टीने कार्यक्रम आखावा. त्याचप्रमाणे प्रादेशिक वनक्षेत्रपाल यांनी तपासणी झाल्यानंतर पुढील महिन्यात संबंधित सहायक वनसंरक्षक प्रादेशिक किंवा फिरते पथक यांचेकडून तपासणी होईल, याची दक्षता घ्यावी. अश्या प्रकार कनिष्ठांनी केलेल्या काही उणीवा लक्षात आल्यास त्याबाबत सुधारणा वरिष्ठांकडून होणे अभिप्रेत राहिल.
२. नियतक्षेत्र तपासणी अधिकारी यांनी तपासणीचे तारखेबद्दल संबंधित बिट वनरक्षक आणि संबंधित वनपाल यांस पुर्व कल्पना द्यावी.
३. बिट तपासणीचे प्रथम दिवशी नियतक्षेत्र तपासणी अधिकारी यांनी बिट वनरक्षकाकडून प्राथमिक वनगुन्हा नोंदवही ताब्यात घेवुन शेवटी नोंदविण्यात आलेल्या वनगुन्हे रिपोर्टवर स्वाक्षरी करावी.
४. तपासणी सुरु करण्यापुर्वी तपासणी अधिकारी यांनी संबंधित बिट वनरक्षकाकडे असलेल्या जप्ती हॅमर तपासणी होईपर्यंत स्वतःच्या ताब्यात ठेवावा.
५. नियतक्षेत्र तपासणी अधिकारी यांनी संबंधित बिट वनरक्षकाचा हॅमर न वापरता स्वतःचा हॅमर वापरावा.
६. नियतक्षेत्रातील सर्व वनखंड तपासले जातील अश्याप्रकार नियोजन करावे.
७. तपासणी करतांना तपासणी अधिकारी यांनी अवैध वृक्षतोडी बरोबरच अवैध चराई, अतिक्रमण, वनवणवा, अवैध खोदकाम, सिमा बुरुज तपासणी, वन्यप्राण्यांचे अधिवासास इजा इत्यादी बाबतची नोंद घ्यावी. अश्या आढळून आलेल्या बाबीबाबत पुर्वी नोंदविण्यात आलेले नसल्यास त्याबाबतचे वनगुन्हे नोंदवावेत.
८. बिट वनरक्षकाने पुर्वी जप्त केलेल्या मालाची नोंदवही तपासावी म्हणजे त्याअनुषंगाने वनरक्षकाच्या ताब्यात असलेल्या मालात तफावत आढळून येत असेल तर त्याची नोंद करावी. तसेच शासकीय आगारात वाहतुक न झालेल्या मालाबाबत तपासणी अधिकारी यांनी संबंधित वनरक्षक, वनपाल व वनक्षेत्रपाल यांना सुचना द्यावी.
९. तपासणी अधिकारी यांनी वनरक्षकाचे दप्तर, हॅमर, थुट नोंदवही, प्रथम वनगुन्हा अहवाल नोंदवही, आदेश पुस्तिका, नियतक्षेत्र नकाशा, टोपोशिट इत्यादीची तपासणी करावी. सदरचे साहित्य वनरक्षकाकडे आहे किंवा कसे? याबाबत शहानिशा करावी.

१०. नियतक्षेत्र तपासणी झाल्यानंतर तपासणी अधिका-यांने सोबत जोडलेले प्रपत्र काळजीपूर्वक भरावे. त्यावर नियतक्षेत्र वनरक्षकाची स्वाक्षरी घ्यावी. त्याची एक प्रत वनक्षेत्रपाल व सहाय्यक वनसंरक्षक यांना द्यावी.
११. वनक्षेत्रपाल व सहाय्यक वनसंरक्षक यांनी नियतक्षेत्र तपासणीचे वेळी वनहक्क कायद्यातील (वैयक्तिक व सामुहीक) बाबींचा आढावा घेवुन नामंजुर वनहक्क क्षेत्र वन विभागाच्या ताब्यात घेण्यात आले किंवा नाही, याची खात्री करावी व तशी नोंद ठेवावी.
१२. या आदेशाची प्रत सर्व वनरक्षक व वनपाल यांचे दफ्तरासोबत कायमस्वरूपी राहावी याची खातरजमा करावी.
- सहपत्र- वरीलप्रमाणे

  
(सजीव गौड)  
मुख्य वनसंरक्षक  
(प्रादेशिक) अमरावती

क्रमांक.मुवसंप्रा/कक्ष-३/संरक्षण/वसंमादआ/ ४४५२ /२०१४-१५  
अमरावती दिनांक: ३१/१२/२०१४

प्रति,

उप वनसंरक्षक, (सर्व)

"उक्त आदेशातील सुचनाबाबत नियंत्रणाखालील सहाय्यक वनसंरक्षक, वनक्षेत्रपाल, वनपाल व वनरक्षक (सर्व) यांना अवगत करावे व त्यांनी त्यांचे स्तरावरून कार्यवाही सुचना निर्गमित कराव्यात."

प्रतिलिपी- आदेश प्रत

## बिट निरीक्षणामध्ये तपासावयाच्या बाबी

१	अवैध वृक्षतोड
२	अवैध गवत चराई
३	अवैध बांबु कटाई
४	बिटाची सिमा- दगडी बुरुज,सिमेंटचे पील्लर,(व्यवस्थित/तुटलेले), गुरे प्रतिबंधक चर, असल्यास त्याची स्थिती(बुजलेले/बुजविलेले)
५	अतिक्रमण- नविन/जुने अंदाजित क्षेत्र.
६	अंगार स्थिती- जळालेले क्षेत्र. अंदाजित कालावधी,जारी वनगुन्हा क्रमांक व दिनांक
७	वन्यप्राणी अस्तित्व- प्रत्यक्ष/अप्रत्यक्ष,खुणा/पाऊलखुणा
८	बिटमधील रोपवने- क्षेत्र . रोपवन वर्ष, प्रजाती व सद्यस्थिती
९	पाणवठे अस्तित्व- सिमेंट बांध, मातीचा बांध,वनतळे, असल्यास नग व बांधाची स्थिती चांगले/फुटलेले, पाणी असलेले/कोरडे.
१०	बिट क्षेत्रात आढळणा-या प्रजाती, मौल्यवान फळ

## **Appendix No. LXXIII**

### **(Para No. 3.6.15)**

#### **Notional Age And Thinning**

A write up with data and graph is given below to understand Notional age and its relevance in thinning. The data was collected for an old plantation of Amravati forest division. Thinnings were not carried out in this plantation as per schedule. Hence Volume, basal area and girth class wise tree distribution data are not matching with the yield table. Under such circumstances reducing the number of trees/ha to the level of yield table will disturb the crop. Hence, basal area and crop girth of the existing growing stock of the plantation shall be worked out to determine the notional age of the plantation, corresponding to it, the number of trees in the yield table are observed and one stage next to the crop girth is identified and tree numbers (girth class wise) corresponding to this stage shall be the base to thin plantation, so that without giving any shock, plantation growth parameters will be improved.

A sample plot was laid in the plantation and every tree was enumerated for its girth, origin (seed/coppice), species. The data was tabulated as given below. Age of the plantation was obtained from the old records and site quality was determined by measuring the tree heights. The basal area and crop girth of the trees of one ha was calculated. The corresponding age of the plantation to that of the crop girth of the existing growing stock was tallied from the yield table and the graph is drawn to understand the distribution of teak, non teak, total trees, desired population and base line population.

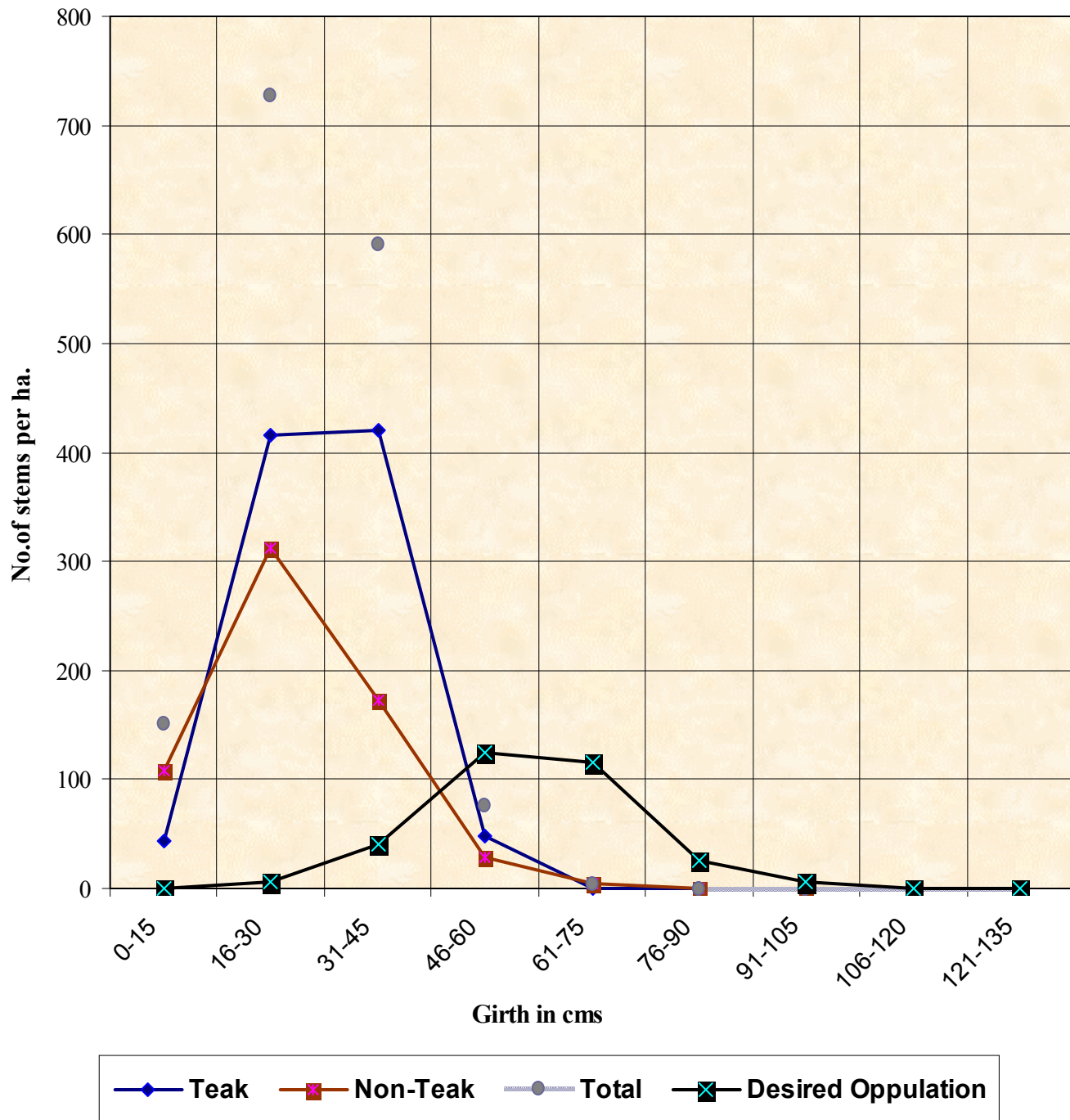
### ABSTRACT OF ENUMERATION

<b>Range : Morshi</b>	<b>S.C.I.Working Circle</b>	<b>Compartment No. : 77</b>
<b>Area of sample plot : 0.25 ha.</b>	<b>Average Top Height : 19.5 m.</b>	<b>Site quality : III/IV</b>
<b>Year of Plantation : 1964</b>		

Species	No. of trees in various girth classes (in Cms.)									Total	QG Volume in cmt.
	0-15	16-30	31-45	46-60	61-75	76-90	91-105	106-120	121-135		
Teak	11	104	105	12	0	0	0	0	0	232	8.389
Non-Teak	27	108	43	7	1	0	0	0	0	156	4.347
Total	38	182	148	19	1	0	0	0	0	388	12.736
Teak coppice	0	0	0	0	0	0	0	0	0	0	0
Non-Teak coppice	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0
Mid Point	7.5	22.50	37.50	52.50	67.50	82.50	97.50	112.50	127.50	-	-
Teak	44	416	420	48	0	0	0	0	0	928	33.556
Non-Teak	108	312	172	28	4	0	0	0	0	624	17.388
Total	152	728	592	76	4	0	0	0	0	1552	50.944
Desired Population	0	6	41	125	115	26	6	0	0	319	58.749



# Graph



**APPENDIX NO. LXXIV**















**Chart showing the All India Teak site Quality**

Top height in meters (50yrs of age)	All India Teak Site Quality	C P Teak Site Quality	Top height in meters (mature dominant teak trees)	
39	SITE QUALITY I	SITE QUALITY I	39	
38			38	
37			37	
36			36	
35			35	
34			34	
33			33	
32			32	
31			31	
30			30	
30	SITE QUALITY II	SITE QUALITY I	29	
29			28	
28			27	
27			SITE QUALITY II	27
26				26
25	SITE QUALITY III	SITE QUALITY II	25	
24			24	
24		SITE QUALITY III	23	
23			22	
22			21	
21	SITE QUALITY IV	SITE QUALITY III	21	
20			20	
19			19	
18		SITE QUALITY III	18	
17			17	
16	QUALITY IV <sup>a</sup>	SITE QUALITY III	16	
15			15	
14		SITE QUALITY III	14	
13			13	
12	SITE QUALITY IV <sup>b</sup>	SITE QUALITY III	12	
11			11	
10		SITE QUALITY IV <sup>b</sup>	10	
9			9	
8			8	
7	SITE QUALITY IV <sup>b</sup>	SITE QUALITY IV <sup>b</sup>	7	
6			6	
5			5	
4			4	
3			3	
2	SITE QUALITY IV <sup>b</sup>	SITE QUALITY IV <sup>b</sup>	2	
1			1	







Courtesy – Shri. Tasneem Ahmad, PCCF (Retd.)

**APPENDIX NO. LXXV**

**Signs, Symbols and Colours used in Stock Mapping**

S. No	Type	Quality	Description	Conventional signs
1	2	3	4	5
A	Teak	I	Blue (Cobalt Blue) Single vertical lines	
		II	Blue (Cobalt Blue) Double horizontal lines	
		III	Blue (Cobalt Blue) Tripe diagonal lines (Top right & Bottom left)	
		IV-a	Blue (Cobalt Blue) Diagonal cross hatch	
		IV-b	Blue (Cobalt Blue) Vertical horizontal cross hatch	
		V-a	Blue (Cobalt Blue) Broken vertical lines	
		V-b	Blue (Cobalt Blue) Broken diagonal lines	
B	However, different colours may be used for different dominant species for the state			
C	Special type e.g. Salai, Khair, Babul, Anjan, Chandan etc.	Qualities may be shown if necessary by dark orange lines as per above pattern	Orange wash Particular species to be depicted by symbolic letters prescribed i.e. S for Salai, Kh for Khair, Ch for Chandan, etc with a circle in red	 Salai forest with scattered Khair
D	Shrub	-	Brown	
E	Under- stocked areas	-	Yellow wash (Lemon yellow)	
F	Grasses, etc.	-	Violet colour wash	
G	Existing plantations	-	Green (Emerald Green) faint wash with superimposed symbolic letters for the species add letter 'F' after the letter for species if it is failure and year of plantation below it.	
H	Blank areas	-	No colour	
I	Eroded areas	-	Black dots, heaviness of the erosion will be shown by concentration of the dots.	

S. No	Type	Quality	Description	Conventional signs
1	2	3	4	5
J	Cultivations	-	No colour with letter "Cl" in red	
K	Bamboo: Luxuriant-healthy, uncongested, undamaged and in good condition	Density: A: Well stocked: 100 and above lumps/ha B: Moderately stocked: 50 to under 100 lumps/ha C: Under stocked: Below 50 clumps/ha.	Specification: Black vertical lines Black vertical lines with interrupted lines in between. Interrupted vertical lines in black.	
	Culturable	A: Well stocked 100 clumps/ha. B: Moderately stocked: 50 to 100 clumps/ha. C: Under stocked: Below 50 clumps/ha.	Black diagonal lines top left and bottom right. Black diagonal lines as above with interrupted lines in between. Black interrupted diagonal lines.	
	Degraded	Bamboo forests not capable of being rehabilitated and of Attaining normal productivity		
L	Mixed	Quality I	Red (Crimson lake) Single vertical lines	
		Quality II	Red (Crimson lake) Double horizontal lines	
		Quality III	Red (Crimson lake) Tripe diagonal lines (Top right and Bottom left)	
		Quality IV-a	Red (Crimson lake) Diagonal cross hatch	
		Quality IV-b	Red (Crimson lake) Vertical horizontal cross hatch	
M	Scattered species	Forests mixed with scattered growth of other species for example, khair		
N	Regeneration	Regeneration of the above species to be shown by adding letter 'r' to the above symbol i e teak forests of III quality with teak regeneration		
O	Forest village ( or Forest settlement)	Burnt Sienna Wash		
P	Age class	O-Old, M-Middle aged, Y-Young with + and - signs to show intermediate stage, the service could be O=, O, O-, M+, M, M- and Y+, Y & Y- the plus and minus signs to be used only when doubt arises.		
Q	Density	It should be shown by decimal points and decimal figures written in black Indian - ink.		

S. No	Type	Quality	Description	Conventional signs
1	2	3	4	5
R	1. Sample plots 2. Experimental Plots 3. Preservation plots	(1) 	(2) 	(3) 
S	Areas suitable for plantation and afforestation 1. Teak- + sign in Red 2. Mixed- + sign in Green 3. Afforestation- + sign in Blue	Teak  1	Mixed  2	Afforestation  3

**Notes:**

- 1) All figures and lettering works should be done in water proof inks.
- 2) In case of scattered important species, the relative incidence of the species should be indicated by manipulating the concentration of the respective symbolic letter.
- 3) If any species other than those shown above are considered necessary to be shown, suitable lettering pattern should be used after the approval from the Head, Working Plan Wing of the state.
- 4) The thickness of the lines and dimensions of letter and numbers thickness should be used which will enhance the allround get up of the map as a whole.

**Appendix No LXXVI**  
**Volume Table for Teak Site Quality**

TECTONA GRANDIS

Top Height by site, quality and age

Site Quality	I			II			III			IV		
	2.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0	2.0	1.0	0.0
Age in Years	Top Height In Meters											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
5	12.8	11.3	10.1	10.1	8.5	7.3	7.3	6.1	4.9	4.9	4	3
6	14.3	12.5	11.3	11.3	9.8	8.2	8.2	7	5.8	5.8	4.6	3.4
7	15.5	13.7	12.5	12.5	10.7	9.4	9.4	7.9	6.4	6.4	4.9	3.7
8	16.8	14.9	13.4	13.4	11.6	10.1	10.1	8.5	7	7	5.5	4
9	17.7	15.8	14.3	14.3	12.5	11	11	9.1	7.6	7.6	5.8	4.3
10	18.9	17.1	15.2	15.2	13.4	11.6	11.6	9.8	8.2	8.2	6.4	4.6
11	19.8	18	16.2	16.2	14	12.2	12.2	10.4	8.5	8.5	6.7	4.9
12	20.7	18.6	16.8	16.8	14.9	12.8	12.8	11	9.1	9.1	7	5.2
13	21.6	19.5	17.7	17.7	15.5	13.4	13.4	11.6	9.4	9.4	7.3	5.5
14	22.6	20.4	18.3	18.3	16.2	14	14	11.9	9.8	9.8	7.9	5.8
15	23.2	21	18.9	18.9	16.8	14.6	14.6	12.5	10.4	10.4	8.2	5.8
16	24.1	21.6	19.5	19.5	17.4	14.9	14.9	12.8	10.7	10.7	8.5	6.1
17	24.7	22.6	20.1	20.1	17.7	15.5	15.5	13.1	11	11	8.8	6.4
18	25.3	22.9	20.7	20.7	18.3	15.8	15.8	13.7	11.3	11.3	9.1	6.7
19	25.9	23.5	21	21	18.6	16.2	16.2	14	11.6	11.6	9.1	7
20	26.5	24.1	21.6	21.6	19.2	16.8	16.8	14.3	11.9	11.9	9.4	7
21	27.1	24.4	21.9	21.9	19.5	17.1	17.1	14.6	12.2	12.2	9.8	7.3
22	27.4	25	22.6	22.6	19.8	17.4	17.4	14.9	12.5	12.5	10.1	7.6
23	28	25.3	22.9	22.9	20.4	17.7	17.7	15.2	12.8	12.8	10.4	7.6
24	28.3	25.9	23.2	23.2	20.7	18.3	18.3	15.5	13.1	13.1	10.7	7.9
25	29	26.2	23.8	23.8	21	18.6	18.6	15.8	13.4	13.4	10.7	8.2
26	29.3	26.5	24.1	24.1	21.3	18.9	18.9	16.02	13.7	13.7	11	8.2
27	29.6	27.1	24.4	24.4	21.6	19.2	19.2	16.5	13.7	13.7	11.3	8.5
28	30.2	27.4	24.7	24.7	21.9	19.5	19.5	16.8	14	14	11.3	8.8
29	30.5	27.7	25	25	22.3	19.8	19.8	17.1	14.3	14.3	11.6	8.8
30	30.8	28	25.3	25.3	22.6	19.8	19.8	17.1	14.3	14.3	11.6	9.1
31	31.1	28.3	25.6	25.6	22.9	20.1	20.1	17.4	14.6	14.6	11.9	9.1
32	31.4	28.7	25.9	25.9	23.2	20.4	20.4	17.7	14.9	14.9	12.2	9.4
33	31.7	29	26.2	26.2	23.5	20.7	20.7	18	15.2	15.2	12.2	9.4
34	32	29.3	26.5	26.5	23.8	21	21	18.3	15.2	15.2	12.5	9.8
35	32.3	29.6	26.8	26.8	23.8	21	21	18.3	15.5	15.5	12.8	9.8
36	32.6	29.9	27.1	27.1	24.4	21.3	21.3	18.6	15.8	15.8	12.8	10.1
37	32.9	30.2	27.4	27.4	24.4	21.6	21.6	18.9	15.8	15.8	13.1	10.4
38	33.2	30.5	27.7	27.7	24.7	21.9	21.9	19.2	16.2	16.2	13.1	10.4
39	33.5	30.8	28	28	25	22.3	22.3	19.2	16.2	16.2	13.4	10.7
40	33.8	31.1	28	28	25.3	22.3	22.3	19.5	16.5	16.5	13.7	10.7

//2//

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(1)
41	34.1	31.4	28.3	28.3	25.6	22.6	22.6	19.8	16.8	16.8	13.7	11	41
42	34.4	31.7	28.7	28.7	25.6	22.9	22.9	19.8	16.8	16.8	14	11	42
43	34.7	31.7	29	29	25.9	22.9	22.9	20.1	17.1	17.1	14	11.3	43
44	35.1	32	29.3	29.3	26.2	23.2	23.2	20.4	17.4	17.4	14.3	11.3	44
45	35.4	32.3	29.3	29.3	26.2	23.5	23.5	20.4	17.4	17.4	14.3	11.6	45
46	35.7	32.6	29.6	29.6	26.5	23.8	23.8	20.7	17.7	17.7	14.6	11.6	46
47	36	32.9	29.9	29.9	26.8	23.8	23.8	20.7	17.7	17.7	14.6	11.9	47
48	36	33.2	30.2	30.2	27.1	24.1	24.1	21	18	18	14.9	11.9	48
49	36.3	33.2	30.2	30.2	27.1	24.1	24.1	21	18	18	14.9	12.2	49
50	36.6	33.5	30.5	30.5	27.4	24.4	24.4	21.3	18.3	18.3	15.2	12.2	50

**Volume Table for Site Quality**  
**(Top height 18.3 meters at 50 yrs. Age)**

**Yield Per hectare (Tectona grandis) for Site Quality III/IV  
(Top height 18.3 meters at 50 yrs. Age)**

YIELD PER  
Site quality III / IV top height 18.3

Age	Main Crop							Thinning					
	Average diameter	Average girth	Average height	Total basal area	Number of trees	Stem timber form factor	Stem small wood form factor	Standing volume stem timber	Standing volume stem small wood	Total standing volume stem timber and stem small wood	Stem timber	Stem small wood	Total stem timber and stem small wood
Yrs	Cms	Cms	Mts	Sq.Mts	Per. ha			Cmt	Cmt	Cmt	Cmt	Cmt	Cmt
(1)	(2)	2(a)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
5	...	...	...	...	...	...	...	...	...	...	...	...	...
10	8.6	27	7.3	7.8	1.332	0	0.466	0	26.534	26.534	0	10.846	10.846
15	10.9	34	9.04	8.3	882	0.007	0.475	0.546	37.06	37.606	0	10.496	10.496
20	12.7	40	11.3	8.5	670	0.021	0.487	2.017	44.855	46.472	0	9.796	9.796
25	14.5	45	12.8	9	544	0.036	0.452	4.147	52.07	56.217	0	9.096	9.096
30	16	50	13.7	9.2	457	0.052	0.431	6.554	54.323	60.877	0	8.397	8.397
35	17.5	55	14.9	9.4	390	0.07	0.403	9.904	56.444	66.248	0	7.347	7.347
40	19.1	60	15.8	9.9	346	0.086	0.371	13.452	58.032	71.484	0	6.647	6.647
45	20.3	64	16.8	10.3	319	0.105	0.339	18.169	58.661	76.83	0.36	5.598	5.948
50	21.6	68	17.7	10.8	294	0.124	0.304	23.704	58.113	81.817	1.399	4.898	6.297
55	22.9	72	18.3	11.2	274	0.144	0.272	29.514	55.749	85.263	2.099	4.198	6.297
60	24.1	76	19.2	11.7	257	0.165	0.24	37.066	53.914	90.98	2.799	3.848	6.647
65	25.4	80	19.8	12.2	240	0.189	0.212	45.655	51.211	96.866	3.149	3.499	6.648
70	26.9	85	20.4	12.9	227	0.213	0.189	56.053	49.737	105.79	3.499	2.799	6.298
75	28.2	89	21	13.3	215	0.247	0.17	68.987	47.481	116.468	3.499	2.449	5.948
80	29.5	93	21.6	13.8	203	0.282	0.153	84.059	45.606	129.665	3.499	2.449	5.948

grandis  
 HECTARE  
 meters at 50 years

Final yield			Accumulated yield of thinning			Total yield			Mean annual increment		Current annual increment		Age
Stem timber	Stem small wood	Total stem timber and stem small wood	Stem timber	Stem small wood	Total stem timber and stem small wood	Stem timber	Stem small-wood	Total stem timber and stem small wood	Stem timber	Total stem timber and stem small wood	Stem timber	Total stem timber and stem small wood	Yrs
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
													5
0	37.38	37.38	0	10.846	10.846	0	37.38	37.38	0	3.738			10
0546	47.556	48.102	0	21.342	21.342	0.546	58.402	58.948	0.036	3.93	0.109	4.314	15
2.017	54.651	56.668	0	31.138	31.138	2.017	75.993	78.01	0.101	3.901	0.294	3.812	20
4.147	61.166	65.313	0	40.234	40.234	4.147	92.304	96.451	0.166	3.858	0.426	3.688	25
6.554	62.72	69.274	0	48.631	48.631	6.554	102.954	109.508	0.218	3.65	0.481	2.611	30
9.804	63.791	73.595	0	55.978	55.978	9.804	112.422	122.226	0.28	3.492	0.65	2.544	35
13.452	64.679	78.131	0	62.625	62.625	13.452	120.657	134.109	0.336	3.353	0.73	2.377	40
18.519	64.259	82.778	0.35	68.223	68.573	18.519	126.884	145.403	0.412	3.231	1.013	2.259	45
25.103	63.011	88.114	1.749	73.121	74.87	25.453	131.234	156.687	0.509	3.134	1.387	2.257	50
31.613	59.947	91.56	3.848	77.319	81.167	33.362	133.068	166.43	0.607	3.026	1.582	1.949	55
39.865	57.762	97.627	6.647	81.167	87.814	43.713	135.081	178.794	0.729	2.98	2.07	2.473	60
48.804	54.71	103.514	9.796	84.866	94.462	55.451	135.877	191.328	0.853	2.944	2.348	2.507	65
59.552	52.536	112.088	13.295	87.465	100.76	69.348	137.202	206.55	0.991	2.951	2.779	3.044	70
72.486	49.93	122.416	16.794	89.914	106.708	85.781	137.395	223.176	1.144	2.976	3.287	3.325	75
87.558	48.055	135.613	20.293	92.363	112.656	104.352	137.969	242.321	1.304	3.029	3.714	3.829	80

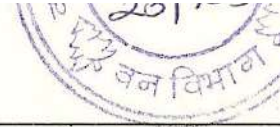
**Yield Per hectare (*Tectona grandis*) for Site Quality IV  
(Top height 18.3 to 12.2 meters at 50 yrs. Age)**

TABLE  
Tectona  
YIELD PER

Site quality IV top height 18.3.12.2

Age	Main Crop						Thinning						
	Average diameter	Average girth	Average height	Total basal area	Number of trees	Stem timber form factor	Stem small wood form factor	Standing volume stem timber	Standing volume stem small wood	Total standing volume stem timber and stem small wood	Stem timber	Stem small wood	Total stem timber and stem small wood
Yrs	Cms	Cms	Mts	Sq.Mts	Per. ha			Cmt	Cmt	Cmt	Cmt	Cmt	Cmt
(1)	(2)	2(a)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
5	...	...	...	...	...	...	...	...	...	...	...	...	...
10	7.6	24	5.8	7.3	1611	0	0.461	0	19.519	19.519	0	7.347	7.347
15	9.4	30	7.6	7.8	1124	0	0.471	0	27.921	27.921	0	6.997	6.997
20	10.9	34	9.1	8	857	0	0.476	0	34.653	34.653	0	6.298	6.298
25	12.2	38	10.4	8	687	0	0.479	0	39.853	39.853	0	5.598	5.598
30	13.2	41	11.3	8.3	603	0.007	0.477	0.657	44.738	45.395	0	4.898	4.898
								0	0				
35	14.2	45	11.9	8.5	534	0.014	0.471	1.416	47.642	49.058	0	4.198	4.198
40	15.2	48	12.8	8.7	479	0.025	0.463	2.784	51.56	54.344	0	3.499	3.499
45	16	50	13.4	9	440	0.035	0.449	4.221	54.149	58.37	0	3.149	3.149
								0	0				
50	17	53	14.3	9.2	400	0.048	0.431	6.315	56.702	63.017	0	2.799	2.799
55	18	57	15.2	9.4	371	0.068	0.405	9.716	57.866	67.582	0.35	2.449	2.799
60	19.1	60	15.8	9.9	346	0.089	0.372	13.921	58.188	72.109	0.7	2.449	3.149
								0	0				
65	19.8	62	16.5	10.3	329	0.115	0.342	19.544	58.123	77.667	1.05	2.449	3.499
70	20.8	65	17.1	10.8	311	0.141	0.311	26.04	57.435	83.475	1.399	2.449	3.848

HECTARE  
meters at 50 years



Final yield			Accumulated yield of thinning			Total yield			Mean annual increment		Current annual increment		Age
Stem timber	Stem small wood	Total stem timber and stem small wood	Stem timber	Stem small wood	Total stem timber and stem small wood	Stem timber	Stem small-wood	Total stem timber and stem small wood	Stem timber	Total stem timber and stem small wood	Stem timber	Total stem timber and stem small wood	Age
Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Cmt	Yrs
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
0	26.866	26.866	0	7.347	7.347	0	26.866	26.866	0	2.687	..	..	1
0	34.918	34.918	0	14.344	14.344	0	42.265	42.265	0	2.818	0	3.08	1
0	40.951	40.951	0	20.642	20.642	0	55.295	55.295	0	2.765	0	2.606	2
0	45.451	45.451	0	26.24	26.24	0	66.093	66.093	0	2.644	0	2.16	2
0.657	49.636	50.293	0	31.138	31.138	0.657	75.876	76.533	0.022	2.551	0.131	2.088	3
1.416	51.84	53.256	0	35.336	35.336	1.416	82.978	84.394	0.04	2.411	0.152	1.572	3
2.784	55.059	57.843	0	38.835	38.835	2.784	90.395	93.179	0.0				
4.221	57.298	61.519	0	41.984	41.984	4.221	96.133	100.354	0.0				
6.315	59.501	65.816	0	44.783	44.783	6.315	101.485	107.8	0.126	2.156	0.419	1.489	5
10.066	60.315	70.381	0.35	47.232	47.582	10.066	105.096	115.164	0.183	2.094	0.75	1.473	5
14.621	60.637	75.258	1.05	49.681	50.731	14.971	107.869	122.84	0.25	2.047	0.981	1.535	6
20.594	60.572	81.166	2.1	52.13	54.23	21.644	110.253	131.897	0.333	2.029	1.335	1.811	6
27.439	59.884	87.323	3.499	54.579	58.078	29.539	112.014	141.553	0.422	2.022	1.579	1.931	7
34.303	58.133	92.436	4.898	57.028	61.926	37.802	112.712	150.514	0.504	2.007	1.653	1.792	7
42.178	57.925	100.103	6.297	59.477	65.774	47.076	114.953	162.029	0.588	2.025	1.855	2.303	8

TECTONA GRANDIS

Spacement by crop age and site qualities

Crop age	Site Quality							Crop age
	IV	III/IV	III	II/III	II	I/II	I	
Yrs.	Mean spacement in meters (triangular spacing)							Yrs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(1)
5	..	..	2.3	2.5	2.7	2.8	2.9	5
10	2.7	2.9	3.1	3.5	3.7	4	4.3	10
15	3.2	3.6	4	4.3	4.7	5.1	5.5	15
20	3.7	4.2	4.6	5.1	5.6	6.1	6.8	20
25	4.1	4.6	5.2	5.8	6.4	7.1	7.9	25
30	4.4	5	5.7	6.4	7.2	7.9	8.7	30
35	4.7	5.4	6.1	6.9	7.7	8.6	9.5	35
40	4.9	5.8	6.5	7.3	8.3	9.2	10.1	40
45	5.1	6	6.8	7.7	8.7	9.7	10.7	45
50	5.4	6.3	7.1	8.1	9.2	10.1	11.1	50
55	5.6	6.5	7.4	8.5	9.5	10.4	11.4	55
60	5.8	6.7	7.6	8.8	9.8	10.8	11.6	60
65	5.9	6.9	7.9	9.1	10.1	11.1	11.7	65
70	6.1	7.1	8.2	9.3	10.3	11.3	11.9	70
75	6.3	7.3	8.4	9.5	10.5	11.4	12.1	75
80	6.5	7.5	8.6	9.7	10.8	11.6	12.2	80

## TECTONA GRANDIS

## Spacement by crop girth and site qualities

Crop girth	Site Quality							Crop girth
	IV	III/IV	III	II/III	II	I/II	I	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(1)
Cms.								Cms.
16	1.9	1.9	1.9	1.9	..	..	..	16
24	2.7	2.7	2.7	2.7	2.7	..	..	24
32	3.5	3.4	3.4	3.3	3.3	3.3	3.3	32
40	4.2	4.2	4	3.9	3.9	3.9	3.8	40
48	4.9	4.8	4.7	4.6	4.5	4.4	4.4	48
56	5.5	5.5	5.4	5.2	5.1	5	4.9	56
64	6	6	6	5.8	5.7	5.6	5.4	64
72	6.5	6.5	6.5	6.4	6.2	6.1	5.9	72
80	..	6.9	6.9	6.9	6.8	6.6	6.4	80
88	..	7.3	7.3	7.3	7.2	7.1	6.9	88
96	..	7.7	7.7	7.7	7.7	7.5	7.4	96
104	..	..	8.2	8.2	8.2	7.9	7.8	104
112	..	..	8.5	8.5	8.5	8.4	8.3	112
120	..	..	..	8.9	8.9	8.8	8.7	120
128	..	..	..	9.2	9.2	9.2	9.1	128
136	..	..	..	9.5	9.5	9.5	9.5	136
144	..	..	..	10	10	10	10	144
152	..	..	..	..	10.2	10.2	10.2	152
160	..	..	..	..	10.5	10.5	10.5	160
168	..	..	..	..	10.8	10.8	10.8	168
176	..	..	..	..	11.3	11.3	11.3	176
184	..	..	..	..	..	11.4	11.4	184
192	..	..	..	..	..	11.6	11.6	192
200	..	..	..	..	..	11.9	11.9	200
208	..	..	..	..	..	..	11.9	208
216	..	..	..	..	..	..	12.1	216
224	..	..	..	..	..	..	12.2	224

STAND TABLE (MAIN CROP)

Showing number of trees per hectare in different girth classes at successive 5 year age period  
Site Quality III / IV

Age in years	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	Age in years
Crop girth in cms.	0	27	34	40	45	50	55	60	64	68	72	76	80	85	89	93	Crop girth in cms.
Girth limits	Number of trees																Girth limits
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(1)
0-10	..	72	9	2	..	..	..	..	..	..	..	..	..	..	..	..	0-10
10-15	..	128	22	4	..	..	..	..	..	..	..	..	..	..	..	..	10-15
15-25	..	665	255	67	33	11	4	1	1	..	..	..	..	..	..	..	15-25
25-35	..	400	379	264	132	72	33	16	10	6	3	2	1	..	..	..	25-35
35-45	..	59	179	223	240	151	92	58	36	19	12	8	6	3	1	1	35-45
45-60	..	8	35	84	152	183	163	157	125	100	77	57	35	23	16	8	45-60
60-75	..	..	..	6	16	37	67	93	115	114	110	98	88	69	55	40	60-75
75-90	..	..	..	..	1	3	9	19	26	47	57	71	78	76	75	67	75-90
90-105	..	..	..	..	..	..	2	2	6	6	13	17	28	44	48	51	90-105
105-120	..	..	..	..	..	..	..	..	..	2	2	4	6	10	16	20	105-120
120-135	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	4	120-135
135-150	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	135-150
150-165	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	150-165
165-180	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	165-180
180-195	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	180-195
195-210	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	195-210
210-225	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	210-225
225-240	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	225-240
240-255	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	240-255
255-270	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	255-270
Total number of trees	0	1332	882	670	544	457	390	346	319	294	274	257	240	227	215	203	Total number of trees

✓STAND TABLE (MAIN CROP)

Showing number of trees per hectare in different girth classes at successive 5 year age period

✓Site Quality IV

Age in years	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	Age in years
Crop girth in cms.		24	30	34	38	42	45	48	50	53	57	60	62	65	69	72	Crop girth in cms.
Girth limits	Number of trees																Girth limits
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(1)
0-10	..	32	40	5	5	7	..	..	..	..	..	..	..	..	..	..	0-10
10-15	..	291	69	22	6	3	..	..	..	..	..	..	..	..	..	..	10-15
15-25	..	822	493	250	110	57	34	17	11	8	4	1	1	..	..	..	15-25
25-35	..	282	412	369	291	214	146	96	68	42	24	16	11	6	4	3	25-35
35-45	..	31	96	174	267	219	198	171	146	110	81	58	45	26	19	12	35-45
45-60	..	3	14	33	66	102	139	168	176	175	169	153	137	119	93	77	45-60
60-75	..	..	..	..	4	7	17	26	36	57	81	96	108	117	113	..	60-75
75-90	..	..	..	..	..	..	..	1	3	8	16	19	23	34	49	67	75-90
90-105	..	..	..	..	..	..	..	..	..	..	2	2	4	6	8	13	90-105
105-120	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	105-120
120-135	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	120-135
135-150	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	135-150
150-165	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	150-165
165-180	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	165-180
180-195	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	180-195
195-210	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	195-210
210-225	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	210-225
225-240	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	225-240
240-255	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	240-255
255-270	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	255-270
Total number of trees	..	1611	1124	857	687	603	534	479	440	400	371	346	329	311	292	277	Total number of trees

Quarter Girth Yield Per Hectare

Site Quality III/IV

Age	Volume before thinning			Thinning Yield			Volume after thinning (Main Crop)			Age
Years	Stem Timber	Small Wood	Total	Stem Timber	Small Wood	Total	Stem Timber	Small Wood	Total	Years
(1)	cmt.	cmt.	cmt.	cmt.	cmt.	cmt.	cmt.	cmt.	cmt.	(1)
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(10)	(1)
5	..	..	..	..	..	..	..	..	..	5
10	0	29.343	29.343	0	8.514	8.514	0	20.829	20.829	10
15	0.429	37.331	37.76	0	8.239	8.239	0.429	29.092	29.521	15
20	1.583	42.901	44.484	0	7.69	7.69	1.583	35.211	36.794	20
25	3.255	48.015	51.27	0	7.14	7.14	3.255	40.875	44.13	25
30	5.145	49.235	54.38	0	6.592	6.592	5.145	42.643	47.788	30
35	7.696	50.076	57.772	0	5.767	5.767	7.696	44.309	52.005	35
40	10.56	50.773	61.333	0	5.218	5.218	10.56	45.555	56.115	40
45	14.537	50.443	64.98	0.275	4.394	4.669	14.262	46.049	60.311	45
50	19.706	49.464	69.17	1.098	3.845	4.943	18.608	45.619	64.227	50
55	24.816	47.058	71.874	1.648	3.295	4.943	23.168	43.763	66.931	55
60	31.294	45.343	76.637	2.197	3.021	5.218	29.097	42.322	71.419	60
65	38.311	42.947	81.258	2.472	2.747	5.219	35.839	40.2	76.039	65
70	46.748	41.241	87.989	2.747	2.197	4.944	44.001	39.044	83.045	70
75	56.902	39.195	96.097	2.747	1.922	4.669	54.155	37.273	91.428	75
80	68.733	37.723	106.456	2.747	1.922	4.669	65.986	35.801	101.787	80

**Quarter Girth Yield Per Hectare**  
**Site Quality IV**

Age	Volume before thinning			Thinning Yield			Volume after thinning (Main Crop)			Age
Years	Stem Timber cmt.	Small Wood cmt.	Total cmt.	Stem Timber cmt.	Small Wood cmt.	Total cmt.	Stem Timber cmt.	Small Wood cmt.	Total cmt.	Years
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(1)
5	..	..	..	..	..	..	..	..	..	5
10	0	21.09	21.09	0	5.767	5.767	0	15.323	15.323	10
15	0	27.411	27.411	0	5.493	5.493	0	21.918	21.918	15
20	0	32.147	32.147	0	4.944	4.944	0	27.203	27.203	20
25	0	35.679	35.679	0	4.394	4.394	0	31.285	31.285	25
30	0.516	38.964	39.48	0	3.845	3.845	0.516	35.119	35.635	30
35	1.112	40.694	41.806	0	3.295	3.295	1.112	37.399	38.511	35
40	2.185	43.221	45.406	0	2.747	2.747	2.185	40.474	42.659	40
45	3.313	44.979	48.292	0	2.472	2.472	3.313	42.507	45.82	45
50	4.957	46.708	51.665	0	2.197	2.197	4.957	44.511	49.468	50
55	7.902	47.347	55.249	0.275	1.922	2.197	7.627	45.425	53.052	55
60	11.477	47.6	59.077	0.55	1.922	2.472	10.927	45.678	56.605	60
65	16.166	47.549	63.715	0.824	1.922	2.746	15.342	45.627	60.969	65
70	21.54	47.009	68.549	1.098	1.922	3.02	20.442	45.087	65.529	70
75	26.928	45.634	72.562	1.098	1.922	3.02	25.83	43.712	69.542	75
80	33.11	45.471	78.581	1.098	1.922	3.02	32.012	43.549	75.561	80

**STAND TABLE (MAIN CROP) TECTONA GRANDIS**  
**Showing the number of trees per hectare in different girth classes at successive years**  
**Site Quality III/IV**

*STAND TABLE*  
 Showing number of trees per hectare in Site

Age in years	10	11	12	13	14	15	16	17	18	19
Crop girth in cms.	27	28	30	31	33	34	35	36	38	39
Girth limits	Number									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
0-10	72	59	47	34	22	9	8	6	5	3
10-15	128	107	86	64	43	22	18	15	11	8
15-25	665	584	502	421	339	258	224	190	155	121
25-35	400	396	392	387	383	379	356	333	310	287
35-45	59	83	107	131	155	179	188	197	205	214
45-60	8	13	19	24	30	35	45	55	64	74
60-75	..	..	..	..	..	..	1	2	4	5
75-90	..	..	..	..	..	..	..	..	..	..
90-105	..	..	..	..	..	..	..	..	..	..
105-120	..	..	..	..	..	..	..	..	..	..
120-135	..	..	..	..	..	..	..	..	..	..
135-150	..	..	..	..	..	..	..	..	..	..
150-165	..	..	..	..	..	..	..	..	..	..
165-180	..	..	..	..	..	..	..	..	..	..
180-195	..	..	..	..	..	..	..	..	..	..
195-210	..	..	..	..	..	..	..	..	..	..
210-225	..	..	..	..	..	..	..	..	..	..
225-240	..	..	..	..	..	..	..	..	..	..
240-255	..	..	..	..	..	..	..	..	..	..
255-270	..	..	..	..	..	..	..	..	..	..
Total number of trees	1332	1242	1153	1061	972	882	840	798	754	712

(MAIN CROP)  
different girth classes at successive years  
Quality III/IV

20	21	22	23	24	25	26	27	28	29	30	Age in years.
40	41	43	44	45	46	47	48	48	49	50	Crop girth in cms.
of trees											Girth limits
(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(1)
2	2	1	1	..	..	..	..	..	..	..	0-10
4	3	2	2	1	..	..	..	..	..	..	10-15
87	76	65	55	44	33	29	24	20	15	11	15-25
264	238	211	185	158	132	120	108	96	84	72	25-35
223	220	218	215	213	210	198	186	175	163	151	35-45
84	98	111	125	138	152	158	164	171	177	183	45-60
6	8	10	12	14	16	20	24	29	33	37	60-75
..	..	..	1	1	1	1	2	2	3	3	75-90
..	..	..	..	..	..	..	..	..	..	..	90-105
..	..	..	..	..	..	..	..	..	..	..	105-120
..	..	..	..	..	..	..	..	..	..	..	120-135
..	..	..	..	..	..	..	..	..	..	..	135-150
..	..	..	..	..	..	..	..	..	..	..	150-165
..	..	..	..	..	..	..	..	..	..	..	165-180
..	..	..	..	..	..	..	..	..	..	..	180-195
..	..	..	..	..	..	..	..	..	..	..	195-210
..	..	..	..	..	..	..	..	..	..	..	210-225
..	..	..	..	..	..	..	..	..	..	..	225-240
..	..	..	..	..	..	..	..	..	..	..	240-255
..	..	..	..	..	..	..	..	..	..	..	255-270
670	645	618	596	569	544	526	508	493	475	457	Total number of trees.

**STAND TABLE (MAIN CROP) TECTONA GRANDIS**  
**Showing the number of trees per hectare in different girth classes at successive years**  
**Site Quality IV**

STAND TABLE

Showing number of trees per hectare in Site

Age in years	10	11	12	13	14	15	16	17	18	19
Crop girth in cms.	24	25	26	28	29	30	31	32	32	33
Girth limits	Number									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
0-10	182	154	125	97	68	40	34	28	21	15
10-15	291	247	202	158	113	69	60	50	41	31
15-25	822	756	690	625	559	493	444	396	347	299
25-35	282	308	334	360	386	412	403	395	386	378
35-45	31	44	57	70	83	96	112	127	143	158
45-60	3	5	7	10	12	14	18	22	25	29
60-75	..	..	..	..	..	..	..	..	..	..
75-90	..	..	..	..	..	..	..	..	..	..
90-105	..	..	..	..	..	..	..	..	..	..
105-120	..	..	..	..	..	..	..	..	..	..
120-135	..	..	..	..	..	..	..	..	..	..
135-150	..	..	..	..	..	..	..	..	..	..
150-165	..	..	..	..	..	..	..	..	..	..
165-180	..	..	..	..	..	..	..	..	..	..
180-195	..	..	..	..	..	..	..	..	..	..
195-210	..	..	..	..	..	..	..	..	..	..
210-225	..	..	..	..	..	..	..	..	..	..
225-240	..	..	..	..	..	..	..	..	..	..
240-255	..	..	..	..	..	..	..	..	..	..
255-270	..	..	..	..	..	..	..	..	..	..
Total number of trees	1611	1514	1415	1320	1221	1124	1071	1018	963	910

(MAIN CROP)

different girth classes at successive years  
Quality IV



20	21	22	23	24	25	26	27	28	29	30	Age in years
34	35	36	36	37	38	39	40	40	41	42	Crop girth in cm
of trees											Girth limits
(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(1)
9	8	7	5	4	3	3	2	2	1	1	0-10
22	19	16	12	9	6	5	5	4	4	3	10-15
250	222	194	166	138	110	99	89	78	68	57	15-25
369	353	338	322	307	291	276	260	245	229	214	25-35
174	181	187	194	200	207	209	212	214	217	219	35-45
33	40	46	53	59	66	73	80	88	95	102	45-60
..	1	2	2	3	4	5	5	6	6	7	60-75
..	..	..	..	..	..	..	..	..	..	..	75-90
..	..	..	..	..	..	..	..	..	..	..	90-105
..	..	..	..	..	..	..	..	..	..	..	105-120
..	..	..	..	..	..	..	..	..	..	..	120-135
..	..	..	..	..	..	..	..	..	..	..	135-150
..	..	..	..	..	..	..	..	..	..	..	150-165
..	..	..	..	..	..	..	..	..	..	..	165-180
..	..	..	..	..	..	..	..	..	..	..	180-195
..	..	..	..	..	..	..	..	..	..	..	195-210
..	..	..	..	..	..	..	..	..	..	..	210-225
..	..	..	..	..	..	..	..	..	..	..	225-240
..	..	..	..	..	..	..	..	..	..	..	240-255
..	..	..	..	..	..	..	..	..	..	..	255-270
857	824	790	754	720	687	670	653	637	620	603	Total number of trees.