WORKING PLAN

FOR

THE FORESTS OF

SAGAR DIVISION

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Arayan Bhavan
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ACKNOWLEDGEMENT

Working plans have been the instruments of planning in forest department and have ably served the purpose for which they were evolved, for over a century. They are the scientific written documents, prescribing the viable tools of forest management in the light of the past records and the present status of the forests on scientific and silvicultural principles for not only sustainable yields keeping in view the prevailing Forest Policy but also to protect and conserve the ecologically sensitive Bio-diversity rich areas for future use. Working plans are quite essential for the forest management. Development of the forests largely depends upon the quality of the Working plans and prescriptions proposed. Therefore the Working plans are written keeping in view the prevailing Forest policy, various Acts and rules that are in force and government orders issued from time to time. But due to certain reasons Working plans were not written on time during the past.

The Honorable Supreme court of India in W.P No. 202 of 1995, in T. N. Godavarman Thirumalapad V/s Union of India and others with Writ petition Not. 171 of 1996, in Environment awareness forum V/s State of J & K and others vide. Judgement dated 15-1-1998, have ordered as follows.

"That working plans for all the forest divisions shall be prepared by the state governments and got approved from the government of India. Forest working shall be carried out strictly in accordance with the approved prescriptions of the working plans. The working plans should be prepared within a period of two years. During the interregnum the forests shall be worked according to annual felling program approved by the MOEF which shall be incorporated in the concerned working plan. In case a working plan is not prepared within this time frame future fellings will remain suspended till the regular working plan is prepared and got approved."

In order not only to comply the Honorable Supreme Court, but also to prepare the scientific management plan / Working plan essential for forest management, sincere efforts have been made to write the plan and submit the same to MOEF for further sanction.

District level decentralized planning is the ultimate solution for alround development of rural India. It is in this regard integration of working plan with district level plan will be the ultimate step we have to aim for. It is in this endeavor even Sri. Maslekar Committee constituted by the government of India for working plans in the year 1997 has also recommended for writing the working plan for revenue district. But here in this case Working plan is prepared for the division comprising 4 taluks of Shimoga district. This is mainly because of the fact that, this division has been maintained as a distinct unit over the last 3-4 decades. However plan has been developed keeping in view the Range as the basic unit for administrative and management reasons.

Since there is a shift in the policy frame work from revenue oriented policies of earlier years, to the conservation oriented policy of 1988, due care is taken to lay more emphasis on environmental protection and conservation, Bio-diversity conservation, Soil conservation, Eco-development and people's participation (JFPM) to meet the needs of the local community.

Actual field inventory started in the year 1994- 95 and completed in 1999-2000. Method of sampling adopted is of simple random one as there is more or less homogenous type of forests occurring in the Division. The data collected has been carefully analyzed based on which working plan for a period of 10 years prepared. Efforts have been made to utilize GIS (Geographical Information System) in preparing the plan specially in the field of preparation of maps by using interpreted spatial data showing forest types and densities. Non spatial data has been linked to the interpreted data and the same has been utilized for strategic planning. This Working Plan is brought out focussing little stress on the summary of facts on which proposals are based on the past systems of management and more stress on the detailed prescriptions to achieve the objectives envisaged in the plan.

In other words it gives a detailed Plan and account on the strategies to be adopted for achieving the management objectives.

I am greatly indebted to **M/s DFID** (Department for International Development) for extending support to the working plan wings of the Karnataka Forest Department by providing technical training and infrastructure facilities, which facilitated to utilize the modern tools for bringing out this report in time. I am thankful to **INRIMT** (Indian Resource Information & Management Technologies PVT.Ltd, Bangalore), for providing the digitized map data linked with the interpreted data on non spatial aspects, which facilitated in producing a most scientific document by making use of the most advanced technology the GIS for the planning. It is indeed a great pleasure to place on record the Co-operation and encouragement extended by Shri **B.S. Adappa IFS.** The Principal Chief Conservator of Forests, in the preparation of this Draft Working Plan. I greatly acknowledge the suggestions and literature made available by **Dr.S.N Rai IFS**. PCCF(EWPRT), and **Dr.Swaminath IFS**. Conservator of Forests, H.Q Bangalore, which has been used in planning. I am also equally grateful to **Sri. A.K. Varma IFS**, Chief Conservator of Forests, WPR&T, Bangalore for his valuable guidance through out the exercise in bringing out this report in stipulated time. Thanks are also due to **Shri S.Rajanna IFS**. Conservator of Forests for his suggestions to improve the plan. My thanks are due to **Sri G.S. Gowda** Asst. Conservator of Forests, Working Plan division Shimoga, who has rendered most valuable assistance not only in the preparation of the draft and compilation of records but also in corroborating the analyzed data with the field conditions. My thanks are also due to **Shri Umesh Shastri**, Asst. Conservator of Forests who has rendered help in the compilation of records. Thanks are also due to **Shri K.N Lakshminarayan**, Asst. Conservator of Ayanur Sub Division who has contributed much useful information to the plan in the form of Discussions. Thanks are due to **Sri. Narayana Murthy**, draughtman of this office who has done an excellent job in updating the maps up to compartment level, which has been utilised by Indian Resources Information & Management Technologies Pvt Ltd. for digitization. Further I also thank all those including the staff of this division who have either directly or indirectly responsible for the production of this plan. At last I also thank the Computer operators, who have done a marvelous job to bring out this plan in such a nice form.

Dharwar
6-2-2002

V. RANGASWAMY IFS.
Conservator of Forests, Training &
Ecotourism

FOREWORD

Sagar Forest Division is a part of Shimoga district. Sagar Forest Division has Tropical Rain forests, Semi-evergreen forests, Moist Deciduous and Dry Deciduous forest. The Division also was well known for its Sandal Reserves. Another interesting feature of the Division is presence of Kan forests, which are like pockets of Tropical Rain forests surrounded by Moist Deciduous vegetation. One of the characteristic species of these 'Kans' is White Cedar. The main occupation of the people in this area is agriculture and they depend on forests for a variety of things. They generally have a large number of cattle which also causes considerable pressure due to grazing.

The tallest water falls of the county, Jog falls is situated in this area. One of the major hydel projects Sharavathi is also located here. There are other hydel projects also. Due to a number of such projects quite a considerable forest area of the Division has been submerged. The Division also has the Wildlife Sanctuary and a Bird Sanctuary.

The first Working Plan for the division was prepared in the year 1891. In the earlier days Working Plans were prepared for certain Reserve Forests or for a group of them. During 1977 the first Working Plan covering entire Forest Division was prepared. The present Working Plan covers all the Reserve Forests, Minor Forests, 'Kan' Forests and Sandal Reserves of the Division.

The Forest department in Karnataka (Mysore State) was created during the year 1864. Before the formation of the Forest department Sandalwood was being collected by agents of the princely State and timber was being sold on license basis. Initially only teak and other economically important trees were extracted from these forests. Sandalwood of course was one of the important materials to be extracted. A Sandal Oil factory was started in 1936 in Shimoga and around the same time Iron & Steel Works and Mysore Paper Mills were also started at Bhadravathi. These three industries made heavy demands on the forests of Shimoga district for firewood, charcoal and bamboos. A wood preservation plant was set up at Shimoga to treat soft wood material for railway sleepers and also Balagi (*Poeciloneuron indicum*) poles as transmission poles. A factory for production of match sticks was also started in the district. Practically, therefore, starting from 1920 till about 1970 there was very heavy demand on the forests of Shimoga district which resulted in considerable degradation. During the past the forests were looked at as a source of revenue generation, therefore as a result most of the accessible portions of the important forests were heavily exploited and were severely denuded of teak and other species.

Until about 1980 and more so till 1970 there was emphasis on generation of revenue and meeting the requirement and as a result working of the forests was not really systematic. During 1980 a conscious decision was taken to stop clear felling the forest areas for converting them into plantations. In 1991 felling of the green trees in the forests was banned, except in case of thinnings and in fuel wood plantations. As a result it could be said that 1980 marked the beginning of conservation oriented forestry and there have been progressive initiatives in this direction, since then.

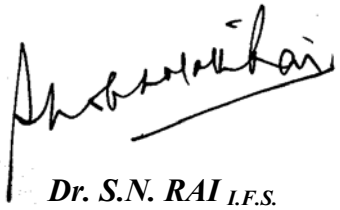
This document is a composite Working Plan for the Sagar Forest Division and the main thrust of this Working Plan is conservation and restoration. The real thrust to preparation of the Working Plans was provided by the orders dated 12.12.96 of the Hon'ble Supreme Court of India in Writ Petition No. 202 of 1995.

We are thankful to Ministry of Environment and Forests, Govt. of India through their Regional office of the Chief Conservator of Forests, Southern Zone, Bangalore and their officers who have approved this Working Plan vide their No. F(C)A/11.6/126/MISC/KAR dated 8th July 2002.

We are grateful to the Govt. of Karnataka for having sanctioned the Working Plan of Sagar Forest Division under G.O. No. FEE 140 FAP 2000, Bangalore dated 27.07.2002 for the period 2001-02 to 2010-2011.

While acknowledging that there is scope to improve upon the present document out aim in the first place has been to have a Working Plan document and revive the professional approach of managing the forests through a Working Plan. I am sure my colleagues will take this into consideration while managing the forests of Sagar Forest Division.

Sri. V. Rangaswamy, I.F.S., Deputy Conservator of Forests, Working Plan, Sagar under the able guidance of Sri. A. K. Varma and Sri. Dipak Sarmah, CCF, Working Plans, Bangalore, has done a good job in preparing this Working Plan. Sri. V. Rangaswamy, and his team deserve our appreciation.



***Dr. S.N. RAI** I.F.S.*
Principal Chief Conservator of Forests
Evaluation, Working Plan, Research and Training,
Karnataka Forest Department,
Bangalore, dt: 5th September 2002

Government of India
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No.F(C)A/11.6/126/MISC/KAR

Dated: 8.7.2002

To,

The Principal Secretary to
Government of Karnataka
Forest, Environment and Ecology Department,
M.S. Building, Dr. Ambedkar Veedhi
Bangalore – 560 001.

Subject : Approval of working plan of Sagar Forest Division – reg.

Reference : (i) State Govt's lr. No. FEE 140 FAP 2000 dated. 5.3.2002.

Sir,

Kindly refer to the subject and reference cited above. I am to inform you that the revised draft working plan of Sagar Forest Division for the period 2001-2002 to 2010-2011 received from State Government vide letter referred to above has been examined with reference to the provisions of Forest (Conservation) Act, 1980 and National Forest Policy, 1988. After careful consideration, I am directed to convey the Central Government's approval to the working plan of Sagar Forest Division for the period 2001-2002 to 2010-2011 under Section '2' of Forest (Conservation) Act, 1980 subject to the following conditions:

(i) The felling of trees in areas having slope more than 30 degree and along the bank of river / streams shall not be undertaken.

(ii) The construction of new roads in forest area shall not be taken up for the purpose of extraction of timber etc.

(iii) The fire protection measures shall be taken up annually and adequate funds for the purpose shall be made available by State Govt.

(iv) It may be ensured that no non-forestry activity is permitted / taken up in forest area in violation of the provision of Forest (Conservation) Act, 1980.

(v) In case the regeneration works in the areas worked in a year are not taken up in the subsequent year, then felling of trees in forest area shall not be undertaken unless facts

are apprised to Central Government and concurrence is obtained for taking up felling operations as per the working plan prescriptions.

(vi) The standing instructions issued by the Hon'ble Supreme Court from time to time in W.P.No.202/95 as well as similar writ petitions shall meticulously be followed.

(vii) The errata mentioned in the annexure enclosed herewith shall be corrected before the implementation of the prescriptions of the working plan.

It may please be ensured that provisions of Forest (Conservation) Act, 1980 and guidelines issued there-under are strictly followed while implementing working plan prescriptions. The Central Government reserves the right to review, modify or withdraw this approval if any of the conditions of approval are not implemented or amendment to plan is necessitated keeping in view the provisions of Forest (Conservation) Act, 1980, guidelines issued thereunder or general instructions issued by Central Government for scientific management of forests. The working plan will be due for revision in the year 2011-2012 and timely steps may please be initiated for revision of working plan.

Yours faithfully,

-Sd-
(K.S.P.V. Pavan Kumar)
Deputy Conservator of Forests (C)

Copy for information and necessary action to:

1. The Director General of Forests and Special Secretary to Government of India, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi – 110 003

2. The Principal Chief Conservator of Forests, Forest Department, Government of Karnataka, Aranya Bhavan, Malleshwaram, Bangalore.

3. The Chief Conservator of Forests (Working Plan), Forest Dept., Govt Of Karnataka, Aranya Bhavan, Malleshwaram, Bangalore – 3.

-Sd-
(K.S.P.V. Pavan Kumar)
Deputy Conservator of Forests (C)

PROCEEDINGS OF THE GOVERNMENT OF KARNATAKA

Sub: Approval of Working Plan of Sagar Forest Division

READ: 1) Correspondence ending with the Chief Conservator of Forests (Working Plan) Letter No: A1 / DWP / WP / Sagar / 99-2000 dated: 19-02-2002.

2) Letter No: F(C)A / 11.6 / 126 / Misc / KAR Dated 08-07-2002 of the Ministry of Environment and Forests, Government of India.

PREAMBLE

1) The Government of Karnataka vide letter No. FEE 140 FAP 2000, dated: 5-03-2002 has submitted the revised draft working plan for Sagar Forest Division for the period 2001-2002 to 2010-2011 after incorporating the modifications proposed in Government of India's communication dated 06.11.2001 for approval.

2) The Government of India in their letter Dated: 08-07-2002 referred at (2) above, after examining with reference to the provisions of The Forest (Conservation), Act, 1980 and National Forest Policy 1988, have accorded approval to the working plan of Sagar Forest Division for the period 2001-2002 to 2010-2011 subject to certain conditions specified in their letter. Hence the following order.

GOVERNMENT ORDER NO; FEE 140 FAP 2002, BANGALORE, DATED: 27.07.2002

3) Sanction is accorded for the Working Plan of Sagar Forest Division for the period 2001-2002 to 2010-2011 under Section (2) of the Forest (Conservation) Act 1980 subject to the following conditions: -

(i) The felling of trees in areas having slope more than 30 degree and along the bank of river/streams shall not be undertaken.

(ii) The construction of new roads in forest area shall not be taken up for the purpose of extraction of timber etc.,

(iii) The fire protection measures shall be taken up annually and adequate funds for the purpose shall be made available.

(iv) It may be ensured that no non-forestry activity is permitted / taken up in forest area in violation of the provision of Forest (Conservation) Act, 1980.

(v) In case the regeneration works in the area worked in a year are not taken up in the subsequent year then felling of trees in forest area shall not be undertaken unless facts are appraised to Central Government and concurrence is obtained for taking up felling operations as per the working plan prescriptions.

(vi) The standing instructions issued by the Hon'ble Supreme Court from time to time in W.P. No 202/95 as well as similar other writ petitions shall meticulously be followed.

(vii) The following corrections & incorporations suggested shall be undertaken before the implementation of the prescriptions of the working plan.

(a) Para 28 (Chapter I, Section II, Page 7) is incompleted.
(b) The Government of India's order No. and date be given in respect of forest areas diverted for non forestry purpose (Para 29, Chapter I, Section II, Page 7)
(c) The area figures mentioned in Para 53 (Chapter II, Section 2, Page 13) shall be reconciled.
(d) The census data of 2001 shall be incorporated in Para 70 (Chapter IV, Section 2, Page 17).
(e) The Para 121 & Annexure 25 may be modified by incorporating regeneration details.

4) It shall be ensured that provisions of Forest (Conservation) Act, 1980 and guidelines issued thereunder are strictly followed while implementing Working Plan prescriptions. The Central Government reserves the right to review, modify or withdraw this approval if any of the conditions of approval are not implemented or amendment to plan is necessitated keeping in view the provisions of Forest (Conservation) Act, 1980, guidelines issued thereunder or general instructions issued by Central Government for scientific management of forests.

5) The working plan will be due for revision in the year 2011-2012 and timely steps shall be initiated for revision of working plan. The modified copy of the working plan incorporating the condition No. (i) and (ii) above shall be furnished to Government of India as the earliest.

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

-Sd-
(K.N. Gayathri)
Under Secretary to Government
Forest, Environment and Ecology Dept.,

To:

1. The Account General (Accounts / Audit), Karnataka, Bangalore.
2. The Principal Chief Conservator of Forests, Aranya Bhavan, Malleshwaram, Bangalore –3.
3. The Principal Chief Conservator of Forests (EW&PRT), Aranya Bhavan, Malleshwaram, Bangalore.
4. The Chief Conservator of Forests (Working Plan), Aranya Bhavan, Malleshwaram, Bangalore.
5. The Deputy Conservator of Forests, Sagar.
6. Copy with complements to the Chief Conservator of Forests (C), Kendriya Sadan, IV Floor, E & F Wings, 17th main road, II Bolck, Koramaganala, Bangalore – 560034.
7. Section guard file/weekly Gazette (4 copies)/Spare copies.

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INTRODUCTION

Sagar Forest Division has the total Forest area of 1,47,829.40 ha of forests. Apart from this it also has many other forests such as forests of C & D class lands and Private Forests. However the private forests are not included under the prescription of the present Working Plan, as the department does not have full control over private forests.

During previous years, the villagers used the forests. Fellings of teak and other important trees of all age classes were carried out in more easily accessible areas. The forests were subjected to ground fires annually. This is mainly due to the local villagers who set fires to forests to get tender grass, which is more palatable to cattle. Further forests were also cleared for the purpose of cultivation. Till 1864 there was no any forest management. It was only in 1864, forest department was formed by the then ruler of Mysore. It was only after this the malpractices were put down to a little extent. But the forests continued to deteriorate due to frequent fire hazards, illicit cuttings by the local villagers. The forests were leased to highest bidders. Illicit fellings were very common and indiscriminate fellings by the bidders was often noticed. During 1890 to 1895, the forests were very heavily worked for extraction of Railway sleepers, which contributed to the depletion of teak forests. Even other Species were also extracted.

Some of the Forests were brought under the protection as per the Working Plan prescriptions consequent to the establishment of the forest department in 1864. Karadibetta SF was earliest to come under protection. Shri H.S Narayana Rao wrote the first W.P for Karadibetta State forest in 1891. Subsequently many other Forests were also brought under the working schemes. Maximum number of forests for which the Working Plan was written are 5 and they are Malandur SF, Chipli SF, Malali SF, Gangavvanasara SF and Belandur SF.

In 1903, the Belandur forest was brought under a provisional working scheme, which fixed the exploitable girths of timber species and prescribed half of the exploitable stocks to be removed during the felling cycle of 30 years. Only sound trees of important species continued to be removed. Shri. H.S. Narayan Rao drew up a regular Working Plan in 1917. The following lines extracted from it indicates the trend of thought at that time.

"In the absence of demand for unsound and unmarketable produce in the shape of fuel, no marked improvement in the growing stock can be effected. Further even marketable timber like Jambe, Dindiga, Ubulu and Channangi cannot be exploited in view of the prohibitive cost of transport. If the supply of firewood for the iron smelting industry be taken up and facilities for transport be afforded by the introduction of tram ways, the improvement of growing stock will not be a difficult matter".

Mr. H.S. Narayan Rao's working plan prescribed improvement felling with a felling cycle of 20 years commencing from July 1918.

Goverdhanagiri S.F: This was notified as state forest in June 1908. On account of apparently of the inaccessible nature of the country, a serious attempt for the exploitation of timber from the forest have not been made till 1910-11. Since then, some fellings have been made in the neighborhood of Nagavalli and Chanekodlu under the method of Selection fellings

according to which all exploitable trees above the prescribed girth limit were felled. A working plan written by Sri. K. Revanna. prescribed Selection fellings.

The Sagar division became a separate administrative unit under the Divisional Forest Officer for the first time in the year 1916

Shri.P.Krishna Swmy Rao's W.P for Gilalgundi Forest came into force from July 1922. It prescribed “Improvement fellings” with a felling cycle of 20 years. Only unsound or over mature stocks had to be removed. Minimum exploitable girths were prescribed for useful timbers.

Shri. P. Krishnaswamy Rao’s working plan for Malandur SF of 1922 prescribed “Improvement felling” with a felling cycle of 20 years. The yield was prescribed by area and the removal of only unsound dead and dying trees was recommended

In the year 1930 a scheme was drawn up and an, exploitable girth of 4½' was fixed for teak, 6' for Mathi, Nandi, Honne, Rose wood, Hunal, and Yethyaga and 4' for Jambe and other kinds. The felling cycle was 20 years. Unfortunately, even after 1930 only sound marketable timber was removed and the unsound stock left behind. In 1918 the Working Plan prepared by Shri. H. S. Narayana Rao replaced the provisional working scheme of 1903. The forest was sub-divided into two types based on the presence or other wise of teak in the crop. In type I forest, a valuation survey was carried out and the yield of teak was limited to the rate of increment. Improvement felling was prescribed for type II. Half the exploitable stock was prescribed for removal from annual coupes.

A provisional working scheme was introduced in 1930-31 for Kolagi forest, which prescribed removal of half the exploitable stock in annual coupes. The felling cycle was fixed at 20 years.

During 1932 the division was abolished and all forests, till then administered by the Divisional Forest Officer, Sagar were again merged in Shimoga division with a forest sub-division at Sagar.

In 1935, Sagar division was again revived and a forest Sub-division officer was posted to Shikaripur.

Working Plan for all the State Forests of Sagar Division was written by Shri N.G Veerappa and was for a period of 10 years from June 1977 to June 1987. Not much emphasis was laid on the implementation of the plan because of the policy changes in the State such as clear felling ban on natural forests issued by the Government of Karnataka in 1983 and emphasis on the afforestation and Social forestry. Some of the thinnings were carried out in plantations but records have not been maintained. Same is the case with removal of timber from the Forest also. However the fact remains that the concentrated teak plantations have been raised in the past. But their maintenance is rather poor. Efforts have also been made to raise eucalyptus hybrid plantations in various soil types with different degree of rainfall. In the past only dead and fallen material both timber and fire wood has been extracted and the revenue obtained for the past 8 years has been given in the plan yearwise.

Timber and other marketable produce have been removed in the past. Due to the increased activities under Five year plans, large-scale extraction of timber and other forest produce has been done. Softwoods were extracted from evergreen and Semi-evergreen forests to feed the industries like Indian Plywood manufacturing Company, the Mysore Commercial Union, WIMCO, etc. Supply of Charcoal to Vishweshvaraiah Iron and Steel Works Ltd., Bhadravathi was also undertaken from regeneration and Sharavathi valley hydroelectric project submersion areas. Firewood has also been supplied to Sandal Oil factory from regeneration areas. In the past large-scale extraction of timber, to feed various Government departments and to meet the requirement of public was undertaken. 31,080.53 ha of forest area were clear felled for the SVHEP (Sharavathi Valley HydroElectric Project), which was subsequently called MGHEP (Mahatma Gandhi Hydro Electric Project), which is now called KPC Ltd (Karnataka Power Corporation Ltd). In the Evergreen forests tending and canopy lifting operations in addition to Selection felling with 45 years felling Cycle and in Moist deciduous Forests with a selection felling, with a felling cycle of 30 years and in Bamboo areas extraction with a felling cycle of 4 years have also been carried out in the past. Bamboo was worked mainly with a view to supply raw material to MPM Ltd.

After the expiry of this plan, no Working Plan was written. In the mean time operations were restricted to thinning of teak plantations, salvaging of dead and fallen material, and extraction of canes and bamboos. Mature *Acacia auriculiformis* plantations were also extracted to meet the fuel wood requirement of the local people. The present WP covering all the forest areas of Sagar Division is for a period of 10 years (2000-2010). It is hoped that this Working Plan will be able to direct the systematic management of the forests of this division and shall become a basis for future management.

This Working Plan prescribes treatment for the forest areas, protected areas, degraded bamboo areas, encroached lands, degraded forest areas, barren lands, non forest areas, and plantations. Thinning of plantations, extraction of plantations, extraction of silviculturally matured trees, salvaging the dead and fallen timber and fire wood, treating new areas with species of economically and ecologically important ones, affording rigid protection to the bio-diversity rich areas, development of wildlife habitat and promotion of ecotourism, are some of the treatments proposed. Implementation of JFPM in the degraded forests having density of forests 0.25 and less, that too, which are situated in the vicinity of villages upto a distance of 5 km is another main area of activity in this plan. Further stress also has been laid on the management of Non Wood Forest products (NTFP), bamboo management, cane management, Kan forests and Sandal wood management in the plan.

Forest inventory has been carried out since 1994 and has been completed in the year 1999-2000. The preliminary Working Plan was prepared by the Conservator of forests, Shimoga Circle, Shimoga, in consultation with the DCF, Working Plans Division, Shimoga and DCF, Sagar Division, Sagar and submitted to the Chief conservator of forests, Working Plans, Bangalore vide dtd November 1998 for approval. The approval of the preliminary Working Plan was received vide letter No. A5.TA.WP.CR.8/ 98 –99 dtd 15.4.99 with some suggestions. In accordance with that final draft of the Working Plan has been prepared. Some of the additional inputs, which were not covered in the PWP were also given in final draft in the interest of the forest development.

Draft Working Plan has been prepared after analyzing the inventory data collected from the year 1994 to 1999-2000. This plan has been written for a period of 10 years from 2001-2002 to 2010-2011 prescribing the management options / prescriptions for all the forest areas covering all the 10 Territorial Ranges, excluding the wildlife areas. The special features of this plan are:

1. Stress on the ecological conservation rather than exploitation.
2. People participation, the main thrust area on which the plan is based.
3. Plan is holistic in its approach rather than confining to the narrow field of Forestry.
4. Creation of maps by digitizing the existing 1:50,000 scale topo sheets of Survey of India.
5. Use of ARC-INFO Software for digitizing the spatial data.
6. Maps could be viewed as well as copies could be obtained in ARC-View -3.1, software, which is user friendly.
7. Non spatial data collected through RAMIS (Range Management Information System) is linked to the Spatial data.
8. GIS-Geographical Information system along with ground data is utilized for classifying the areas into different Working circles in the plan.
9. Census data 1991 has been linked to the GIS, which could be viewed and updated if required.
10. Working circles are also linked to the GIS.

The Committee for finalisation of Working Plan on 14.8.2000 discussed the draft Working Plan. The draft was revised in accordance with the suggestions made by the Committee and final draft was submitted on 5.5.2001 for the approval of the Government of India. This draft has been further revised as per suggestions received from the Government of India on 6.11.2001.

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Abbreviations and Acronyms

- SF - State Forests.
- MF - Minor Forests.
- RF - Reserved Forests.
- DF - District Forests.
- RL - Reserved Land.
- WB - Wooded Block.
- SR - Sandal Reserve.
- P - Plantation.
- WP- Working Plan.
- DCF- Dy. Conservator of Forests.
- ACF- Assistant Conservator of Forests.
- RFO- Range Forest Officer.
- KFD- Karnataka Forest Department.
- WC- Working Circle.
- KFDC- Karnataka Forest Development Corporation Ltd.
- KSFIC- Karnataka State Forest Industries Corporation Ltd.
- MPM- Mysore Paper Mills LTD.
- GIS- Geographical Information System.
- RAMIS- Range Management Information System.
- MIS- Management Information System.
- PB's- Polythine Bags.
- HDPE- High Density Poly Ethylene.
- SSP- Site Specific Plan.
- WGFP- Western Ghats Forestry Project.
- OECF- Overseas Economic Co-Operation Fund.
- SHG- Self-Help Group.
- Sd- Sound.
- USD- Un Sound.
- BDCWC - Bio-diversity conservation Working Circle.
- BDHS- Bio-diversity hor-spots
- WLM- Wild Life Management
- ET- Eco-Tourism
- GWRWHS- Ground water re-charge and water harvesting structures.
- MFPWC- Minor forest produce overlapping working circle.
- SWOWC- Sandalwood overlapping working circle.
- APMWC- Afforestation and plantations management working circle.
- AFPSTF- Afforestation for production of Small timber and fuelwoood.
- IWC- Improvement working circle.
- BOWC- Bamboo overlapping working circle.
- FWPM- Fuel wood plantation management.
- CrPM- Casuraina plantation management.
- CPM- Cashew plantation management.
- EPM- Eucalyptus plantation management.
- JFPM- Joint forest planning and management.
- CM- Cane management
- KLM- Kan Land management.
- PWP- Preliminary working plan.

PART I

SUMMARY OF FACTS ON WHICH THE PROPOSALS ARE BASED

CHAPTER 1

DESCRIPTION OF THE TRACT DEALT WITH.

Section 1.
NAME AND SITUATION

This Working Plan for Sagar forest division covers all the State Forests, Reserved forests, Minor forests, Kan lands, Sandal Reserves, Timber Reserves, other Government lands with the Forest department and areas notified under Section 4 (1) of Karnataka Forest Act, 1963. Sagar division is situated in Shimoga revenue district and comprises of the revenue taluks of Sagar, Hosnagar and Shikaripura and Soraba. The division is named after Sagar town, which is also its headquarters. The division has three sub-divisions with head quarters at Sagar, Hosnagar and Shikaripura. There are ten ranges, namely Sagar, Hosnagara, Nagara, Shikaripura, Shiralkoppa, Soraba, Ambligola, Anandapura, Anavatti and Kargal. During 1992, parts of Kargal range coming under Sharavathi wildlife sanctuary were carved out of Sagar territorial division and included in a separate division, namely, Shimoga wildlife division.

2. The division is situated approximately within latitude 13^{o} 36` and $14^{o}$ 38` North and longitudes 74^{o} 38` and $75^{o}$ 32`east of Greenwich.

Section 2.
CONFIGURATION OF THE GROUND.

3. The tract is very hilly to undulating. The slopes are generally moderated to steep and precipitous. The highest point in the division is Kodachadri, which is 1341m above mean sea level. The Bangalore-Honnavar road passes through Sagar town. The world famous Jog Falls on the course of river Sharavati is situated in the division, about 32 kilometers west of Sagar town.

4. Administrative boundaries of Sagar Division with ranges and forests are given in **map-1.** Slopes as per the Satellite interpreted data are given in **map-2.** Details of different Sections and Beats with Road network are given in **map-3.** Details of types of forests as per the satellite interpreted data are given in **map-4**. Details of plantations recorded by the satellite are given in **map-5**. Details of administrative boundaries with village layers are shown in **map-6**. Details of various ranges are shown in **map-7 to 16.** All these maps are provided in the document after the Annexures.

Section 3.
GEOLOGY – ROCK AND SOIL.

5. The underlying rocks are of an igneous origin. These generally comprise of quartzes and quartzite, schists, granites, gneisses, chlorite schists, mica schist, hornblendic schists, etc. The soils vary widely in depth and fertility. The valleys and lower slopes generally contain deep sandy loam with a good covering of the decaying organic material. Such areas are well drained and admirably suited for tree growth. In certain places, the soil is poor and sustains poor tree growth. Lateritic out-crops are found in some places.

Section 4.
CLIMATE AND RAINFALL.

6. The maximum and minimum temperatures recorded in the year 1993 are 36.30^0C and 13.40^0 C in the months of May and January respectively. The rainfall varies from year to year and from month to month. The maximum and minimum rainfalls recorded in the division were 2492.10 mm and 1708.10 mm in 1994 and 1996 respectively. The Southwest monsoons bring most of the rain, commencing usually in the early part of June and with very short interruptions. Heavy and continuous rainfall is received up to September. Pre-monsoon showers occur during May. November, December and January are colder months. The summer is severe in the low rainfall zone towards the eastern part of the division. Hottest months are March and May when the streams and Nallas go dry. A statement showing the maximum, minimum and mean annual temperature (1991-1998) in the division is given in the **Annexure-1**. A statement of annual rainfall pattern (1989-1998) in the Division is given in the **Annexure-2.**

Section 5.
WATER SUPPLY.

7. The important rivers flowing in the division are Sharavathi, Kumudwathi, Varada, Varahi and Chakra. The Sharavathi river rises at Ambuthirtha near Kavaledurga in Thirthahalli Taluk. It flows in northwesterly direction and meets the tributaries Haridravathi and Yenne hole. Near the border of the district, it bends to the west and hurls down the Ghats near Jog where it is known as Jog waterfalls. The river is harnessed for generating electricity. It discharges into the Arabian Sea at Honnavar in Uttara Kannada district. It flows for a distance of 32.20 kilometers in the division. According to the legend, the name Sharavathi means "Arrow born" and the river was formed from a dart of Shri Ramachandra's arrow.

8. The Kumadvathi or Chordi, a tributary to the Tungabhadra river, rises in Agastya Parvatha or the Billeswara Betta near Humcha. It flows north near Kumsi and Shikaripura and continuing in the same direction, it forms the large Madaga tank on the border of the district, from where turning north east it runs in to the Tunga Bhadra at Mudanur. It flows for a distance of 17.7 kilometers in the division.

9. The Varada another tributary of the Tungabhadra rises at Varada Moola near Hikkeri in Sagar Taluk, runs north past Chandragutti in Soraba Taluk and Banavasi in Uttara kannada district and runs to the northeast. After entering the Dharwar district it flows north bending round gradually to the northeast. South of Bankapura and Savanur, it runs with an easterly course into the Tungabhadra at Galaganatha below Havanur.

10 The Varahi river rises in Agumbe Ghats and flows towards the west for a distance of about 72 kilometers and joins Arabian Sea near Kundapura. In its course between 23rd and 24th kilometers at a distance of about 4 kilometers southwest of Hulikal, the river falls from a height of about 353 m at nine different stages, the approximate height of the highest fall being 57 m and that of the lowest being 19 m. This is called Kunchkal Abbey (Kunchikal falls), where Hulikal forebay is constructed to generate electricity. There is a Muzarai temple dedicated to Lakshminarasimha and Chandikamba shrine.

11. The Chakra river rises near Malali village of Hosanagara taluk and flows westward through Kilandur State forest, meets Savehakkalu hole from Kavaledurga State forest and turns to the southwest direction near the district border of Shimoga and Udupi (Kundapur taluk). Further it continues to run in the same direction up to Baregundi Reserved forest, then runs to south and then west, taking several turns and discharges in to the Arabian Sea at Kundapur.

12. Generally, there is no scarcity of water except in summer. Some of the streams in the locality are perennial.

Section 6:
DISTRIBUTION OF FORESTS IN THE DIVISION.

13. The Working Plan report deals with all the State Forests (SF - Notifications issued prior to the promulgation of the Karnataka Forest Act 1963), Reserve Forests (RF - Notifications issued subsequent to the promulgation of the Karnataka Forest Act, 1963), Minor Forests (MF), Sandal Reserves (SR), wooded blocks (WB), Timber Reserves (TR) areas notified under Section 4 of the Karnataka Forest Act, 1963 and plantations raised in non forest lands **(3533.46 ha)** coming under the jurisdiction of Sagar Forest division.

14. Details of distribution of forests in Sagar division before transfer of wildlife areas to Shimoga wildlife division are given in **Annexure-3**. An abstract is given below:

Abstract of the forests of Sagar forest division (in ha).

Sl. No.	Forest Range	SF	MF	RF	SR	Plantn	TR	Block	TOTAL
1	Ambligola	10536.84	3115.80	-	-	-	-	-	13652.64
2	Anandpuram	10835.89	1582.27	72.06	-	-	-	-	12490.22
3	Anavatti	3710.36	3200.95	140.83	756.87	226.63	-	-	8035.64
4	Hosanagara	7601.22	172.37	8335.64	-	-	-	-	16109.24
5	Kargal	31860.17	-	443.49	-	-	-	-	32303.66
6	Nagara	18652.49	-	2816.93	-	-	-	-	21469.42
7	Sagar	5965.43	337.11	784.20	-	-	-	-	7086.74
8	Shikaripura	9083.54	2998.72	-	1334.50	202.35	174.03	678.07	14471.20
9	Shiralkoppa	4185.43	4129.49	-	-	-	-	-	8314.92
10	Soraba	7676.68	5565.62	653.52		-	-	-	13895.72
	Total	**110108.07**	**21102.24**	**13246.64**	**2091.37**	**428.98**	**174.03**	**678.07**	**147829.40**

15. The total extent of forest area transferred from Sagar territorial division to Shimoga wildlife division is 21400.86 ha. The details are as follows:

Area details of Sharavathi Valley wildlife sanctuary.

SL No	Name of the Forest	Legal Status	Block No.	Compt No.	Area in Ha.
1	Govardhanagiri	SF	XX	1-34 (34)	13474.11
2	Karni	SF	XXI	1-17 (17)	5283.98
3	Muppani Block A	SF	XIX	4,5,6,7, (4)	961.77
4	Muppani Block B	SF	XIX	8,9,10,11 (4)	628.35
5	Channagonda (P)	SF	XIX	13 (P)	156.10
6	Attigodu	SF	XIX	1,2,3, (3)	763.65
7	Talakalale SF	SF	XVIII	3(P)	106.90
			XVIII	4(P)	26.00
				Total	**21400.86**

16. The above figure of 21,400.86 ha includes 173.00 ha of plantations with the MPM limited and 44.00 ha under encroachment. The forest proper area transferred from Sagar territorial division to Shimoga wildlife division is 21,183.86 ha. The areas with the wildlife wing have not been included in the present Plan, as the management of these areas is done as per an exclusive Management Plan, for Sharavathi wildlife sanctuary. Besides 6,396.77 hectares and 3,494.50 hectares of forestland have been transferred to the Karnataka Forest Development Corporation (KFDC) limited and the Mysore Paper Mills (MPM) limited respectively for raising plantations. These plantations are managed by these organisations as per separate management plans. These areas have also been excluded from the purview of the present Plan. The Total extent of forest proper area included in the Plan is therefore 1,16,754.27 ha.

17. The Government of Karnataka vide GO No. RD 54 LGP 78-dated 8-5-78 had ordered the transfer of C and D class lands to the Forest department. The Government had vide GO No. RD 106 LGP 88 dated 13-1-91 ordered to retransfer all the C and D class lands, expect those that have already been notified as Reserved forest, from the Forest department to the Revenue department. In view of this, the following categories of land are included in the Plan:

(a) Areas already notified under Section 4 of the Karnataka Forest Act, 1963 for constituting as Reserved forest.
(b) Area where plantations have been raised by the Forest department.

18. An extent of 27,151.39 hectares of revenue land including 3070.17 hectares of C and D class lands has been notified under Section 4 of the Karnataka Forest Act, 1963 for constituting as Reserved Forest. Details are giving in **Annexure-21**. These areas have been included in the Plan.

19. Plantations have been raised in some of the non-forest land yet to be notified under Section-4 of the Karnataka Forest Act 1963, Such areas are included in the Plan. The total extent of such land is 3533.46 hectares. These include 2897.26 ha of *Acacia auriculiformis* plantations, 402.53 hectares of Teak plantations, 152.00 hectares of *Casurina* plantations and 81.67 hectares of miscellaneous species plantations.

20. The total area covered by the Plan is 147439.12 hectares as indicated in the table below:

Area covered by the Working Plan for Sagar forest division.

Sl No	Type of area covered	Extent
1	Forest Proper	1,16,754.27
2	Section 4 notified area	27,151.39
3	Plantations on non-forest lands	3,533.46
	Total	**1,47,439.12**

Section7.
SURVEY POSITION.

21. Most of the Forests have been surveyed and their printed maps are available on 4 inches to one mile scale. However some of the maps are not available. In such cases, survey has not been carried out. Topo sheets of 1: 50, 000 scale and 1: 2,50,000 from Survey of India are available in the Territorial and Working Plan divisions. Due to commissioning of a number of hydroelectric and irrigation projects for harnessing the water resources of the Sharavathi, Chakara and Varahi rivers, considerable portions of a number of State forests have been submerged. Since the details are not forthcoming, they could not be included. The submerged portion of Sharavathi valley is included in the Sharavathi valley Wildlife Sanctuary, which is under the administrative control of Shimoga wildlife division. The survey of India maps (Topo sheets) 1:50,000 have been digitised and maps as desired are created by using GIS tool.

Section 8.
STATE OF BOUNDARIES.

22. Cut lines have demarcated the boundaries of forests. In some cases there are no proper demarcation lines. The present condition and maintenance of the demarcation lines is not satisfactory. A large number of forests are scattered all over the division and their demarcation lines have considerable length. Financial allocations for the maintenance of demarcation lines have not been adequate.

Section 9.
LEGAL POSITION.

23. The State Forests and the Reserve forests are the property of the State, subject to certain specified rights and concessions admitted at the time of settlement. The details of Government notifications declaring these areas as Reserve Forest are given in the **Annexure-4**. This includes notifications of Minor forests, Sandal reserves, Timber reserves, Wooded blocks and plantations under the control of the Forest department. They are the property of the government subject to certain conditions laid down in the Karnataka Forest Act 1963. The Survey number-wise details are included in the book entitled "Notification and Survey number wise details of different Forests of Bhadravathi and Sagar Forest Divisions with Rights and Concessions allowed" compiled by the author of this Plan.

Section 10.
RIGHTS AND CONCESSIONS.

24. **General Rights**: - Rights of way over forest roads, cart-tracks and foot paths, rights of worship at the shrines situated in forest areas, right to use the water in forest streams wherever admitted, as per notifications. Rights to forest produce wherever admitted as detailed in notifications. In the interest of fire protection it is necessary to induce the goodwill and co-operation of people in keeping the forests free from fire and control of illicit removal of forest produce.

25. **Concessions**: - The concessions granted in the State Forests is enabling the department to get labour for all sorts of forest works when called upon. In return to the concession they may also be induced to undertake fire protection and the general protection of the forests near their villages. Good relationship with local people is very important to protect the forests and the regeneration areas from fire. JFPM introduced in 1993 by the Government of Karnataka has become handy in this endeavor. The rights and privileges allowed in State forests, Reserved forests, Minor forests and other types of forests are indicated in the book "Notification and Survey number-wise details of different forests of Bhadravathi and Sagar divisions with Rights and Concessions allowed" compiled by the author of this Plan.

Section 11.
DIVERSION OF FORESTLANDS FOR NON FORESTRY PURPOSES.

26. Karnataka forest department has handed over an extent of 97.00 acres out of (150.00) acres of forest land from survey number 13 of Horogoppa Minor forest as per Government order No 353 FGl-66 dated 3-1-1968 for the purpose of rehabilitating the Scheduled Caste families consisting of Shri Krishna Naik and 23 others of the village. The displacement was due to implementation of the multipurpose co-operative rehabilitation project scheme. This was confirmed by the order of the office of the Asst. Conservator of Forests, Sagar Sub Division Vide order No Dis.F2.LND (SC) SR.2/71-72 dtd 3-6-1971.

27. An extent of 39.60 ha in Kyasanur State forest of Soraba Range was diverted for the purpose of drawing power line by the Karnataka Power Corporation limited. However, details are not available.

28. A total extent of 70.00 ha of Jog forest was transferred to Karnataka Power Corporation limited for the establishment of Mahatma Gandhi Hydro Electrical Project at Jog. However, details are not available.

29. Other details of forest areas diverted for non-forestry purpose are as follows:

Range	Location (SY No)	Extent in ha	Purpose
Hosnagara Sub Division.			
Nagara	Varahi Project (Reservoir)	2668.00	Project
	Chakra Project (Reservoir)	1326.00	"

	Savehaklu (Reservoir)	853.00	
	Kavaribylu to Mkbyle road	600.00	Road
	Channal Cutting	40.00	
	Under Submersion	24460.00	Submersion
Hosnagar	Under Submersion		Submersion
Sagar Sub Division.			
Sagar	Under Submersion	8840.00	Submersion
	Sagar to Sorab 110KV line	39.60	New connection KEB
Shikaripura Sub Division.			
	Under Submersion	743.00	
Sorab Sub Division.		- Nil -	

Section 12.
LANDS DIVERTED TO KFDC AND MPM LTD.

30. Details of areas transferred from Sagar division of Karnataka Forest Development Corporation (KFDC) limited are given in **Annexure – 17**. Details of areas transferred from Sagar division to Mysore Paper Mill (MPM) limited are given in **Annexure-16**.

CHAPTER-II.

THE FOREST.

Section 1.
COMPOSITION AND CONDITION OF THE CROP.

31. The growing stock is mixed and irregular and falls under South Indian tropical forest comprising of both the evergreen and deciduous types. According to the "Revised Survey of Forest types of India by Champion and Seth" the forests are broadly classified as follows:

1. Southern tropical wet evergreen forests. (1A/C4)
2. Southern tropical semi evergreen forests. (2A/C2)
3. Southern tropical moist deciduous forests. (3B/C2)
4. Southern tropical dry deciduous forests. (5A/C2)

32. The typical wet evergreen forests mainly occur in Hosanagara, Nagara, Kargal and Sagar Ranges. Of late the forests are showing tendency towards deterioration and changing from evergreen to semi-evergreen type and from semi-evergreen type to moist deciduous type because of biotic pressures.

33. The deciduous types are spread over in all the other ranges of the division. Champion in his classification of forest types describes "Southern tropical wet evergreen" as follows: -

> "Lofty, dense, evergreen forests 45 m or more high, characterized by the large number of species of trees which occur together. Consociations (gregarious dominants) are rarely met with and ordinarily two third or more of the upper canopy trees are of species individually contributing not more than one per cent of the total number; a few species, however, do occur semi-gregariously. Some species of the top storey are trees with clear boles 30 m long and 5 m or more in girth, and may be briefly deciduous without affecting the evergreen nature of the forest as a whole. The canopy is extremely dense; it has been demonstrated that apart from the scattered giants which project well above the general canopy, differentiation into definite canopy layers probably does not exist. Epiphytes are numerous especially aroids, ferns, mosses and orchids. Climbers vary greatly in amount being sometimes conspicuous but often not so; on the whole they are less characteristic than in the semi-evergreen and moist deciduous forests. Ground vegetation in typical cases may be almost absent; elsewhere a carpet of *Strobilanthus* or *Selaginella* and ferns may occur; grasses are absent. The undergrowth is often a tangle of canes, creeping Bamboos and palms, which may replace high forest as cane brake along the streams. Erect bamboos are unusual, but may occur locally. Long cylindrical boles usually with thin smooth bark are typical but plank buttresses are also frequently seen. The leaves are thick and glossy, only rarely finely pinnate or hairy and are very often white or pink when young. Cauliflory may be relatively common".

34 Troup, in his classical book "Silviculture of Indian trees" calls this zone of forests as "Tropical evergreen or Rain-Forests". He describes these as follows: -

> "**The tropical evergreen** or **rain forests** are characterized by the great luxuriance of their vegetation which consists of several tiers the highest containing lofty trees, often with buttressed bases, reaching a height of 150 feet. The intermediate tiers consist mainly of evergreen trees crowded through and struggling for light. There is luxuriant growth of climbers".

35. The Important species are: *Alstonia scholaris* (Maddale), *Amoora canarana* (Hottenola), *Calophyllum elatum* (Surhonne), *Canarium strictum* (Kaidhupa), *Cedrela toona* (Gandhagarige), *Cinnamomum* Species (Dalchinni), *Dipterocarpus indicus* (Dhuma), *Dysoxylum malabaricum* (Devadari), *Elaeocarpus tuberculatus* (Sataga*), Holigarna arnottiana* (Holiger), *Aglaia odorata* (Kempunola), *Hopea parviflora* (Kiralbogi), *Hopea wightiana* (Hyga), *Symplocos spicata* (Chunga), *Lophopetalum wightianum* (Bilehebbalasu), *Machilus macrantha* (Gulmavu), *Mastixia arborea* (Gulle), *Mesua ferrea* (Nagasampige), *Palaquium ellipticum* (Hadsale) *Poeciloneuron indicum* (Balagi), *Schleichera trijuga* (Kendala), etc.,

36. The **semi-evergreen** type is very variable and difficult to define except in comparative terms, being intermediate between the tropical evergreen and moist deciduous but usually includes groups or patches typical of both. The number of species is high, but less so than in the true evergreen, many of the biggest evergreens being absent. Buttressed stems continue to be frequent. The general canopy is typically less dense than in the true evergreen and the evergreen undergrowth is rather more copious; climbers tend to be very heavy. The important species met with are *Lagerstroemia lanceolata, Holigarna arnottiana, Lophopetalum wightianum, Hopea parviflora, Artocarpus hirsuta,* etc.,

37. The **moist deciduous** type of forest is not a very dense one. It is formed by a mixture of trees, which are deciduous during dry season, usually for several months though some for a short period only. Although intimate mixture of species is the rule, a relatively small numbers of species form the greater part of the canopy and relatively pure associations are frequently met with. The height is up to 25m. In some localities evergreen species are present. They are conspicuous during dry season and are mainly confined to the moist and more sheltered spots. The chief features of moist deciduous type of forest is a leafless period in the dry season, which may or may not begin with the cold weather but is typical in March and April, when the upper canopy is almost entirely leafless, though there is a sprinkling of evergreens in the under-wood and shrub cover. An appreciable number of deciduous trees, however come into new leaf long before the monsoon, unexpectedly spreading their new foliage at a time when one would expect them to experience great difficulty in obtaining enough moisture for the intense transpiration which must take place. Teak drops its leaves early in the cold weather in localities, which are relatively dry. An under-growth of shrubs is usually present but enough light gets in to permitting grass growth. Bamboos are present. Large woody species of climbers are also met with.

38. The important species are *Lagerstroemia lanceolata* (Nandi), *Terminalia tomentosa* (Mathi), *Xylia xylocarpa* (Jambe), *Pterocarpus marsupium* (Honne), *Terminalia paniculata* (Hunal), *Anogeissus latifolia* (Dindiga), *Tectona grandis* (Teak), *Adina cordifolia* (Yethyaga),

Dalbergia latifolia (Beete), *Bombax cieba* (Boorga), *Mangifera indica* (Mango), *Santalum album* (Srigandha), *Cassia fistula* (Amaltas), *Emblica officinalis* (Nelli) etc.,

39. A mixture of trees forms the **Dry deciduous** type practically all of which are deciduous during the dry season, usually for several months. Most of the species also occur in the moist deciduous forest where they reach better growth, the height of the dry deciduous forest being 10-15 m. The number of species is much less. Undergrowth of shrubs is usually present. Climbers are comparatively few.

40. The important species are *Terminalia tomentosa, Lagerstroemia parviflora, Anogeissus latifolia, Terminalia chebula, Santalum album, and Cassia Fistula.*

Section 2.
INJURIES TO WHICH THE CROP IS LIABLE.

41. Little or no damage is caused by the climatic factor. Frost is unknown and except windfall no damage results from natural causes.

42. (a) **Man**: - The chief source of injury or damage to the vegetation is man. Theft of forest produce in almost all the forests in the neighborhood of towns and villages is common. It is difficult if not impossible to check this. The system of removal of firewood on prepaid license was in vogue but has been stopped since 1974. However, illicit removal by cart men is persisting. They usually cut green trees from the forests and allow these to dry for sometime and later transport to the consuming centers as firewood. Head loaders are again a threat to the forests. They too follow the same tactics as the cart men do. Thefts of forest produce even from plantations are of common occurrence. Smuggling of Sandalwood is very rampant with the result that mature Sandal wood trees are hardly found in the forests. The smugglers have now resorted to illicit removal of Sandalwood stumps from the forests. Unauthorized cultivation and encroachments are serious problems.

43. (b) **Fire**: - Fire does extensive damage to forest and is greatly responsible for the destruction of seedlings and coppice regeneration. Fire damages natural regeneration and consequently saplings and poles are deficient. Normally the fires are ground fires that burn grass and fallen leaves. Although grown up trees can withstand damages caused by fire younger regeneration may be killed because of fire.

44. In the evergreen/semi-evergreen zone, fires are less frequent except on the hillocks covered with grasses where fire causes serious damages. Fire problem is more acute in the deciduous belt. Fire occurs mainly because of intentional/accidental reasons, as biotic interference is more in these areas. Burning of grass by graziers before the onset of the monsoon for getting good flush of grass, is one of the reasons of the spread of fire in forests. The problem gets further aggravated because of thick mat of fallen leaves on the forest floor. It creates gaps in the forest, which gradually is covered by the invasion of weeds like *Eupatorium or Lantana.* The period between February and April is the driest and the intensity of fire during this period is very severe. In view of this there is urgent need for effective fire control measures including burning of the fire lines. However, unless timely and complete action is taken there is all possibility that such measures become totally futile.

45 (c) **Grazing**: - Grazing by domestic cattle in forest areas is on the increase. Excessive trampling by cattle renders the soil surface very hard and compact, thereby obstruction the growth of natural regeneration. Some seedlings like Boorga, Honne and Sandal are heavily browsed.

46. (d) **Wild Animals**: - Bison, Sambar, and spotted deer do some damage by browsing the regeneration of various species especially Beete and Honne. They also strip the bark of younger saplings. Pigs, porcupines and rodents often cause large-scale destruction of younger bamboo shoots and also in nurseries.

47. (e) **Insects**: - Owing to the mixed nature of the forests, damage by insects is not found to be considerable. Two varieties of caterpillars have been observed on Teak. Gall insects are commonly seen in the Teak plantations and they are harmless.

48. (f) **Offenses**: - In all the forest areas, forest offenses are on the increase. Smuggling of Teak and Rose wood is very prevalent in Shikaripura, Shiralkoppa, Anandapuram and Soraba Ranges. Smugglers with bi-cycles or bullock carts do major damage since they can transport bigger timber logs on bicycle or by bullock carts. Smuggling of timber on head loads is also common. There is large scale smuggling of fire wood in forest areas adjoining habitations. It is estimated that at least 200 kgs of firewood is transported in every bi-cycle in Shikaripura area.

49. There are instances of Sandalwood smuggling all over the division. It is very common around Shikaripura and Shiralkoppa. The enforcement of Section 71 of the Karnataka Forest Act 1963, which provides for powers to confiscate the vehicles involved in forest offence cases has brought down the number of offences to certain extent.

50. (g) **Poaching**: - Poaching of Sambar and Spotted deer is prevalent in the forests adjoining to villages.

51. (h) **Encroachment**: -Encroachment of forest land for extension of cultivation has caused considerable damage to the forests. Cultivation of Cotton, Rubber, and Pineapple has lured people of the surrounding villages to encroach upon forestlands.

52. The details of encroachment taken place in different forest areas as per the figures furnished by the division are as follows.

Sl No	**Year**	**Actual Encroachment**		**Govt. of India's approval received**		**Balance to be evicted**					
						Name of families			**Area in Ha.**		
		No. of families	**Area in Ha.**	**No. of families**	**Area in Ha.**	**SC & ST**	**Others**	**Total**	**SC & ST**	**Others**	**Total**
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
1	Prior to 27.04.1978	2216	1401.62	2216	1401.62	- NIL -					
		2216	**1401.62**	**2216**	**1401.62**	-	-	-	-	-	-
2	27.04.1978 to 30.04.1998	8779	6792.95	-	-	827	7952	8779	714.58	6078.37	7892.95
		8779	**6792.95**	**-**	**-**	**827**	**7952**	**8779**	**714.58**	**6078.37**	**7892.95**

1	2	3	4	5	6	7	8	9	10	11	12
3	01.05.1988 to	4815	4002.2	-	-	864	3951	4815.00	833.06	3169.14	4002.20
	05.05.1997	**4815**	**4002.2**	**-**	**-**	**864**	**3951**	**4815**	**833.06**	**3169.14**	**4002.20**
4											
	06.05.1997 to	21	21.17	-	-	-	21	21	-	21.17	21.17
	31.03.1999	**21**	**21.17**	**-**	**-**	**-**	**21**	**21**	**-**	**21.17**	**21.17**
	GRAND TOTAL	**15831**	**12217.94**	**2216**	**1401.62**	**1691**	**11924**	**13615**	**1547.6**	**9268.68**	**11916.32**

53. However, as per the stock maps prepared based on the inventory, the extent of forest areas encroached is **18213.23 ha**. In this Plan, the figure of **18213.23 ha** is considered as encroachment in Sagar Division. The details of encroachment taken place in Sagar Division is given in **Annexure – 8**.

CHAPTER III.

UTILIZATION OF THE PRODUCE.

Section 1.
AGRICULTURAL CUSTOMS AND WANTS OF THE PEOPLE.

54. The population of the division is largely dependent on agriculture. Agriculture which was much neglected in the past has been considerably extended and is now of great importance. The main crops are Paddy, Sugarcane, Areca, Banana, etc.

55. Large farms adopting modern techniques in agriculture constitute a very small percentage. The age-old ploughs drawn by drought cattle are in vogue. There is considerable demand for timber and other forest produce for agricultural implements, construction or repair to dwelling house, firewood, green leaves, fencing material, etc. The agriculturists mainly rely on the forest in meeting their bonafide requirements. Illicit removal of forest produce is quite common. This is impossible to check. The good will of the villagers living close to forest is a necessity. In view of the increase in price of timber and other forest produce, theft not only for bonafide use but also for trade is very often resorted to.

56. Most of the villagers maintain large number of cattle mainly for the purpose of farmyard manure. These animals are not properly looked after by their guardians and consequently they depend on forest for existence.

Section 2.
MARKETS AND MARKETABLE PRODUCTS.

57. **Markets**: - Various kinds of timber from dead and fallen and teak poles are removed to timber depots. From the depots timber is supplied to Government departments, and public at retail sale rates for bonafide purpose. These rates are revised from time to time. Timber left after making these supplies is auctioned periodically. Merchants from Shimoga, Bangalore and other places including Kerala states attend these auction sales.

Marketable products:

58. **Timber**: - Timber is the principal marketable produce. The principal kinds of timber in general demand are Teak, Mathi, Nandi, Honne, Beete, Hunal, Surhonne, Hebbalasu, Yethyaga, Bilidevdar and Neralu. Teak poles obtained from thinning of teak plantations have high demand in periodical auction sales.

59. **Transmission poles**: - In the past, Balagi poles were supplied to the Karnataka State Electricity Board for erecting as transmissions poles. However, this has been stopped totally as reinforced cement poles are being used for this purpose

60. **Firewood:-** The local demand for firewood from the villages situated close to forest is negligible as the population density in these areas is less. However, there is great demand for

firewood from semi-urban and urban areas. In order to alleviate the firewood problem *Acacia auriculiformis* plantations are harvested on the rotation age of 8 years. Some firewood is also made available from the plantations raised and harvested by the Mysore Paper Mills limited. As per the lease agreement 12.5 % of the harvested material from these plantations is to be given to the Forest department as lease rent for the land.

Minor Forest Produce:

61. **Bamboos**: - There is unlimited demand for green bamboo for local consumption, small scale industries and also for supply to Medars of adjoining and nearby areas like Harihar, Davanagere, Chitradurga, etc. In order to meet requirement of local people and others, green bamboo is removed as per silvicultural principles. However, the total demand of green bamboo is including that from outside cannot be met with Lops and tops of green bamboo and dead bamboo are removed for supply to Mysore Paper Mills Ltd. Bhadravathi.

62. **Sandal Wood:-** Sandalwood resource of the division has been depleted considerably due to smuggling, as it fetches very high rate in the market. Though it is the exclusive property of the Government, smuggling is rampant. Now, the Forest department has undertaken the task of extracting the stumps of trees that have been illicitly felled and removed by smugglers. Extracted Sandalwood is sent to Government Sandalwood depot at Shimoga for further conversion and disposal.

63. Other important minor forest products collected are Tamarind, Beedi leaves, Canes, Dalchinni leaves, Honey, Wax, Tannin material and non-edible oil seeds, etc.

Section 3.
MODES OF TRANSPORT.

64. **Road**: - The Chief means of communication and transport of forest produce within and to places outside the division are roads. The Bangalore-Honnavara State Highway passes through Sagar. Apart from this a network of well-maintained roads connects all the ranges in the division.

65. **Rail**: - There is a Metre gauge Railway line from Talguppa to Shimoga via Sagar. Shimoga is linked to Bangalore, Hubli, etc. by a Broad gauge Railway network.

Section 4.
METHOD OF EXPLOITATION AND COST.

66. Since 1987, no extraction of timber by way of felling of trees has been done in the division due to the existing ban on green felling. Extraction of dead and fallen timber and firewood has been carried out either departmentally or through contractors. Thinning of some of the Teak plantations has been carried out but records are not maintained properly. *Acacia auriculiformis* plantations have been clear felled to meet the fuel wood requirement of the local people. After the trees are marked, sawn and converted into logs and firewood, the prepared material is removed by means of lorries to various timber depots. The logs are classified as per the standard classification and stacked in the depots. Departmental elephants are sometimes used

for dragging timber, poles from inaccessible and difficult parts of forests to places where the logs can be carted.

Section 5.
PRICES.

67. The revenue obtained in the division by sales of timber, fire wood bamboo and Minor forest produce is given in the table **"Capital value of expenditure" in Chapter VI.**

CHAPTER IV

ESTABLISHMENT AND LABOUR.

Section 1.
ESTABLISHMENT

68. Details of staff working in Sagar Division numbering 352 are given as under:

Dy. Conservator of Forests	1
Asst. Conservator of forests	4
Range Forest Officer	11
Gazetted Manager	1
Superintendent	2
First Division Assistant	11
Second Division Assistant	12
Typist	2
Driver	6
Peons	15
Forester	97
Forest Guard	158
Forest watcher	11
Care taker	16
Cleaner	4
Pump set operator	1

69. The total budget required for the above staff for the year is estimated to be around Rs. 250 lakhs, calculated for the year 2001-2002.

Section 2.
LABOUR.

70. There are **934** villages within the jurisdiction of Sagar Division. The total population of the division as per census data of 1991 is **3,25,096**. On an average **348** persons are living in a village. Density of population per square kilometer is **61.29**. Villages are not so thickly populated and there is scarcity of local labour for some of the forestry operations. Some of the communities do not go for forestry work, as they are busy in their own farmlands. However, there is no dearth for local labour for carrying out works like survey and demarcation and fire line clearance, as the labour required for such works is limited. Local labour is plenty in Shiralkoppa, Shikaripura and Soraba ranges. In Nagara, Hosanagara and Kargal Ranges labour is in short supply and has to be imported from other places for executing forestry works. For works such as timber and firewood, extraction, sometimes labour has to be imported from far off places like Harapanahally, Hadagali and Uttara Kannada. The busy agricultural season in the month of May-June and October-December coincides with the periods of sowing, planting of forest crops and other forestry operations. This clash is inevitable and only proper planning and maintenance of cordial relations by the range staff with the villagers can mitigate the problem. Range-wise population details are given in **Annexure-5.**

CHAPTER V.

PAST SYSTEMS OF MANAGEMENT.

Section 1.
GENERAL HISTORY OF FOREST MANAGEMENT.

71. **History**: Sagar division became a separate administrative unit under a Divisional Forest Officer for the first time in 1916. Its headquarters were at Sagar town. During 1932 the division was abolished and merged in Shimoga division with a forest sub-division at Sagar. In 1935, Sagar division was again revived. A sub-division was formed with headquarters at Shikaripur.

72. Before 1977 there was no composite Working Plan for the whole of Sagar forest division. Some of the important forests of the division were worked based on working plans prepared for these forests. Brief history of management of these forests is given below:

73. **Karadibetta**: This forest was reserved between the year 1888-1891 and is the oldest to come under protection. The final notification appeared in the Mysore Gazette on 6th June 1895. Even before that, the forest was worked heavily in accessible localities for Teak, Honne and Mathi timber and the timber was supplied to forest depots at Shikaripur and Ayanur.

74. About the year 1903, a scheme was drawn up and an exploitable girth of 4½ feet was fixed for teak, 6 feet for Mathi, Nandi, Honne, Rosewood, Hunal and Yethyaga and 4 feet for Jambe and other kinds. The felling cycle was 20 years. However, even after 1903, only sound marketable timber was removed and the unsound stock left behind. In 1918 the working plan prepared by Shri. H. S. Narayana Rao replaced the provisional working scheme of 1903. The forest was sub-divided into two types based on the presence or other wise of teak in the crop. In type I forest, a valuation survey was carried out and the yield of teak was limited to the rate of increment. Improvement felling was prescribed for type II. Half the exploitable stock was prescribed for removal from annual coupes.

75 **Koragi**: This was notified, as state forest during 1926 and very little is known of its history before that date. It was subjected to exploitation of timber for a long time. A provisional working scheme was introduced in 1930-31, which prescribed removal of half the exploitable stock in annual coupes. The felling cycle was fixed at 20 years.

76 **Gilalgundi**: Before the year 1914 this forest was reported to be a good timber area. After reservation, the department permitted purchasers to remove Nandi timber and bamboos at prescribed seigniorage rate. Working plan written by Shri.P.Krishna Swamy Rao came into force from 1st July 1922. It prescribed "Improvement fellings" with a felling cycle of 20 years. Only unsound or over mature stocks had to be removed. Minimum exploitable girths were prescribed for useful timbers.

77 **Malandur**: This was one of the earliest forests to be reserved. It was brought under the protection of the department in the year 1891 and was notified under Section 17 of Mysore

Forest Act in January 1895. Shri. P. Krishnaswamy Rao's working plan of 1922 prescribed "Improvement felling" with a felling cycle of 20 years. The yield was prescribed by area and the removal of only unsound dead and dying trees was recommended.

78 **Chipli and Malali**: These forests came under the protection of the department in 1919. These forests were also worked under a provisional working scheme, which prescribed removal of half the stocks of exploitable trees from the annual coupes with a cycle of 20 years.

79. **Gangavanasara**: Part of this forest was worked in the past for small timber and firewood. Fellings were confined to teak in accessible localities. A provisional scheme prescribed "Coppice with Standards" under a felling cycle of 30 years. This did not improve matters, for the coupes were laid out and worked only where teak was available. The above remarks apply to **Markande, Yerekatte and Gogga** state forests as well. Only the villagers have subjected these to un-restricted fellings for a longer period than Gangavanasara as the reservation of these forests took place much later.

80. **Belandur**: This was notified as state forest between the years 1888 and 1891, being finally notified in1895. Timber was removed and supplied to depots at Shikaripur and Shiralkoppa. About 1903, the forest was brought under a provisional working scheme which fixed the exploitable girths of timber species and prescribed half of the exploitable stocks should be removed during a felling cycle of 30 years. Only sound trees of important species continued to be removed. Shri. H.S. Narayan Rao drew up a regular working plan in 1917. Shri. H.S. Narayan Rao's working plan prescribed improvement felling with a felling cycle of 20 years commencing from 1st July 1918.

81. **Ullur**: This was declared as state forest in 1912 and was subjected to unsystematic fellings before being placed under protection. A provisional working scheme prescribed "Improvement felling".

82. **Kalkoppa**: This was constituted as state forest in the year 1929. Owing to its accessibility, all useful timber seems to have been removed even before it was placed under special protection which prescribed "Improvements fellings.

83. **Goverdhanagiri**: This was notified as state forest in June 1908. Because of the inaccessible nature of the terrain, there was little demand for timber from this forest and any serious attempt at the exploitation of timber does not seem to have been made untill 1910-11. Since then, some fellings have been made in the neighbourhood of Nagavalli and Chanekodlu under the method of selection fellings according to which all exploitable trees above the prescribed girth limit were felled. A working plan written by Sri. K. Revanna, prescribed selection fellings.

Working Plan for the forests of Sagar Division:

84. Shri N.G Veerappa wrote a composite Working Plan for all the State Forests of Sagar division for a period of 10 years from June 1977 to June 1987. The Plan prescribed eight working circles.

(1) Teak conversion working circle.
(2) Evergreen selection-cum-improvement working circle.
(3) Deciduous selection-cum-improvement working circle.
(4) Plantation working circle.
(5) Softwood working circle.
(6) Sandalwood overlapping working circle.
(7) Bamboo overlapping working circle.
(8) Protection working circle.

Teak conversion working circle.

85. The object of management of this working circle was to exploit the marketable timber etc and conversion of existing growing stock into valuable teak plantations. The silvicultural system prescribed was clear felling followed by artificial regeneration of teak. Ten felling series were formed. Conversion period was eighty years. A rotation period of eighty years was fixed for teak with an exploitable girth of 4.5 feet.

Evergreen selection-cum-improvement working circle.

86. This working circle extended over whole of the economically exploitable localities of the evergreen and semi-evergreen forests of the division. The silvicultural system prescribed was Selection-cum-improvement fellings. There were eight felling series. Minimum exploitable girths ranging from 5 feet to 7 feet for various species were prescribed. The felling cycle was forty-five years. Rotation was fixed at 135 years.

Deciduous selection-cum-improvement working circle.

87. This working circle extended over typical moist deciduous and semi-evergreen forests. The silvicultural system prescribed was Selection-cum-improvement fellings with gap planting. There were two felling series. Minimum exploitable girths ranging from 4 feet to 6 feet for various species were prescribed. The felling cycle was 30 years. Planting of Hebbalasu, Mango, Boorga, White Cedar and other suitable species in the gaps was prescribed.

Eucalyptus Plantation working circle.

88. Areas fit for concentrated regeneration of Eucalyptus were included in this working circle. The silvicultural systems prescribed were clear felling followed by artificial regeneration in the first rotation and simple coppice system in the subsequent rotation. The conversion period was forty years. There were three felling series.

Softwood working circle.

89. Areas suitable for artificial regeneration of softwood species were included in this working circle. The silvicultural system prescribed was clear felling followed by artificial regeneration with *Ailanthus malabaricum, Grevillea robusta, Gmelina arborea*, *Evodia roxburghiana*, etc. There were four working series.

Sandalwood overlapping working circle.

90. The Sandalwood overlapping working circle included all Sandal areas in the division such as State forest. Minor forests, District forests, Hiduvali lands (private lands). Villages sites, Gomal, etc. Sandalwood was prescribed to be extracted by the natural selection system confining to dead and dying trees and supplementing with artificial regeneration. There were five felling series. A felling cycle of seven years was adopted.

Bamboo overlapping working circle.

91. The Bamboo overlapping working circle comprised of all the bamboo bearing areas under the control of the Forest department. A felling cycle of four years was prescribed. There were five felling series. Exploitation of bamboo was prescribed on silvicultural principles to meet the local demand of the people. Exploitation for commercial purpose was not recommended in the Plan.

Protection working circle.

92 This working circle comprised area not included under Teak conversion. Evergreen selection - cum - improvement. Deciduous selection – cum - improvement. Eucalyptus plantation and Softwood working circle. Areas that were inaccessible, precipitous and rocky were included in this working circle. The object of management of the working circle was to give complete protection to the vegetation except removal of dead trees.

93. The Working Plan prepared for all the forests by Shri N.G. Veerappa expired in 1987. Various prescriptions of the Plan do not appear to have been followed rigidly. Concentrated teak plantations have been raised in the past. Eucalyptus hybrid plantations were raised in various soil types with varying rainfall. Some thinning operations were carried out in the teak plantations for improvement but proper records have not been maintained for verification. Similarly, records regarding removal of timber from the forest are also not readily available. During the Plan period and before it, large-scale extraction of timber and other forest produce had been done. Softwood (matchwood and plywood) logs were extracted from evergreen and Semi-evergreen forests to supply to the industries like Indian Plywood Manufacturing Company, the Mysore Commercial Union, WIMCO, etc. Supply of charcoal to Vishweshvariah Iron and Steel Works Ltd., Bhadravathi was also undertaken from regeneration and Sharavathi valley hydroelectric project submersion areas. Firewood had also been supplied to Sandal Oil Factory from regeneration areas.

Section 2.
RECENT MANAGEMENT.

94. After the expiry of the above Plan no Working plan has been revised or written for Sagar division. During the eighties, protection of natural forests and Social forestry had gained importance in the State. Clear felling of natural forest for the purpose of taking up afforestation had been stopped in 1983. Felling of green trees from evergreen and semi-evergreen forests was banned from 1987. This was followed by a ban on felling of green trees from any type of natural forests. With the State Government's policy to ban clear felling and felling of green trees,

forestry operations in the division have been conservation oriented. Removal of dead and fallen trees is being carried out in a limited scale.

95. Details of timber and firewood salvaged from dead and fallen trees in Sagar division during the last ten years are given below:

Sl No	Year	Timber (cum)	Firewood (cum)
1	1990-91	2411.275	13681.911
2	1991-92	2283.583	5147.967
3	1992-93	230.291	9924.790
4	1993-94	685.310	6153.875
5	1994-95	542.967	6131.678
6	1995-96	1708.800	5958.940
7	1996-97	262.273	7087.965
8	1997-98	282.324	7552.000
9	1998-99	50.964	557.908
10	1999-2000	1822.207	8558.729

96. Details of artificial regeneration carried out in the division during the last ten years are given below:

Sl No	Year	Extent of artificial regeneration (ha)	Expenditure incurred (Rs in lakhs)
1	1990-91	1024.05	98.341
2	1991-92	985.00	62.687
3	1992-93	252.60	29.017
4	1993-94	340.00	27.641
5	1994-95	460.50	48.093
6	1995-96	495.50	27.710
7	1996-97	216.00	15.980
8	1997-98	861.00	104.229
9	1998-99	624.00	138.992
10	1999-2000	914.00	129.272

97. Details of revenue realised and expenditure incurred in the division during the period 1988-89 to 1997-98 are given in **Annexure-25.**

98. A number of Working Schemes for Sagar division have been approved by the Government of India. The details are as follows:

(a) Approval for extraction of 680.82 hectares of *Acacia auriculiformis* plantations during 1999-2000 was accorded vide letter No. F(C)A/11.6/126/KAR dated 31.12.1999.

(b) Approval for extraction of dead and fallen trees proposed for the year 1998-99 was accorded vide letter No. F(C)A/11.6/126/KAR dated 14/15-2-2000. The area approved for working was 5508.84 hectares.

(c) Approval for extraction of dead and fallen trees proposed for the year 1999-2000 was accorded vide letter No. F(C)A/11.6/126/KAR dated 3-10-2000. The area approved for working was 1475.72 hectares.

Section 3.
MANAGEMENT OF KAN LANDS.

99. Kans are special kinds of forest lands met with in Sagar Division. Kan lands have typical microclimate sustaining evergreen and semi-evergreen vegetation otherwise surrounded by deciduous forests. These lands are very rich in bio-diversity, occur more or less adjoining to villages and are vulnerable to encroachment. These lands need to be conserved with all care.

Past History:

100. Based on the recommendations of Major Hunter, the then Conservator of Forests, the Kans of Soraba taluk were closed to public and were classified as reserve forests in the year 1866.

101. In 1867, Lt. Vansomere expressed that reservations of all the Kans were not called for. He proposed that such of the Kan lands that were not to be conserved should be thrown open to riyaths. Accordingly, the Commissioner directed to cancel the proposal of the reservation of Kans. However the holders of Kans were prevented from felling timber.

102. In 1868 Dr. Brandis submitted a report on the Kans according to which Kans were proposed into two types.

1. Occupied Kans
2. Unoccupied Kans

103. The holders of Occupied Kans were to have the produce of the Kans such as coffee, pepper, toddy, honey, gum etc., whereas the Government had the full right upon the timber. However the holder was allowed to cut unreserved timber, branches and leaves for his own use but not for sale. The Unoccupied kans were regarded as Government property.

104. In 1872 the concession granted in 1868 to the Kan holders to cut unreserved timber trees for their bonfide use was withdrawn. However, the rights of collection of pepper, coffee, fruits, gum, honeys and other produce by the Kan holders continued. Permission was also given to he Kan holders to clear undergrowth and clip trees where necessary for the growth of pepper vine and for manuring purposes. The right of tapping toddy trees was issued subject to the Abakari (Excise) Rules vide notification 201 dated 8th of 1864.

105. In April 1878, the Commissioner for survey settlement suggested that if the Kan holder wished to cultivate coffee he should apply for permission and that the land so cultivated with coffee should be liable to such rate of assessment as may be fixed for coffee land in Mysore and this was approved vide notification dtd 2.7.1878. For Nagar taluk. the Chief Commissioner passed the order on 3.7.1878 permitting the cultivation of coffee in Kans. In respect of

Thirthahalli taluk, the Chief Commissioner had no objection whatsoever for the cultivation of coffee being carried on in Kans after obtaining permission from the Deputy Commissioner on the advise of forest officer as to suitability of the land for cultivation of coffee.

106. Under the proceedings dated 3.7.1878 The Chief Commissioner observed that for reasons of apprehended injury to trees Kans possessing valuable timber could not be made available for coffee cultivation. Accordingly all applications for coffee cultivation since July 1878 were ordered to be rejected. However, about 902 acres of Kan lands in Shimoga district in which coffee cultivation was carried out without patta were not disturbed and ban on cultivation of coffee in Kans in future was imposed.

107. The rights of Kan holders are laid in notification dated 15.4.1879. Collection of leaves for manure was restricted to the Kan itself. Lopping of reserved trees for leaves and cultivation of coffee were prohibited on Kans.

108. Details of Kan lands and their present status are given in **Annexure – 24.**

CHAPTER VI.

STATISTICS OF FOREST STOCKING, GROWTH AND YIELD.

109. In order to have a general idea of the composition of the growing stock of the forests of Sagar division, enumeration of 0.25 percent intensity was carried out at the compartment level from 1994-95 to 1999-2000. The data collected have been analysed for the purpose of the plan and the results are appended.

110. Stump analysis of *Tectona grandis* was carried out in the forests of Doddamatti of Kumsi State forest of Ayanur Range, situated adjacent to the forests of Chordi range of Sagar division and curves were drawn, which corroborated the MAI recorded for teak. In the Linear Tree Increment (LTI) plots, measurements for all the species have not been maintained. Even in respect of the species for which measurements were taken, these were not recorded periodically. Therefore, in order to understand the annual incremental pattern of teak and other species, girth measurements of all the stems present in plots of 0.1ha each in seventy plantations of known formation years from 1886 to 1991 in five ranges of Sagar division having 3942 trees were analyzed. It was found that the MAI of teak is 1.88 cm (GBH) and average height 12.18m. For other species, it was not possible to ascertain the MAI, as there were no pure plantations of these species. In order to fix the possible exploitable limit for other species M.R.S. Pearson's record for Kalinadi High forests has been taken as the guide. Further this was also compared with the growth pattern recorded by Erappa in his Working Plan for Kundapur. In general it is observed that the growth rate reduces with the age of the crop. It is also evident from the Pearson's table that after attaining the age of 120 years, there is a reduction of annual increment in all species except Rosewood, which continues to put on an appreciable growth up to the age of 170 years up to which the records are available. After attaining the age of 120 years the fall in the annual growth is to the tune of 44% and this is the age at which the rotation is to be fixed and harvested for maximum revenue besides maintaining the hygiene of the forest.

Diameter in Cms (Pearson's table)

Sl. No.	Age in Years	Mathi	Nandi	Kindal	Jambe	Beete	Honne
1	10	5.54	6.86	5.33	4.83	5.33	4.19
2	20	10.16	12.45	10.41	9.14	9.80	8.66
3	30	14.63	17.09	14.73	13.08	14.22	13.74
4	40	18.95	21.67	19.30	17.17	18.29	18.90
5	50	20.13	26.11	24.13	21.08	22.30	23.55
6	60	26.80	30.07	28.45	25.63	25.98	28.55
7	70	29.79	33.81	32.26	29.82	30.23	31.37
8	80	32.51	36.25	36.83	33.68	33.86	80.98
9	90	35.89	41.05	41.15	37.49	36.78	39.52
10	100	39.40	44.45	45.21	40.77	39.24	43.69
11	110	42.72	47.65	49.28	44.15	42.32	47.17
12	120	45.97	49.07	52.32	47.45	45.72	49.63

13	130	48.79	52.32	57.15	49.20	-	49.20
14	140	52.71	54.61	56.64	50.55	51.92	56.18
15	150	55.78	57.40	61.47	52.32	55.32	61.77
16	160	58.67	58.37	62.48	54.36	56.39	66.80
17	170	61.01	61.47	65.28	57.48	-	69.09
18	180	62.89	62.74	67.82	60.20	-	-
19	190	65.02	-	-	-	-	-
20	200	-	65.79	-	-	-	-
21	210	-	67.056	-	-	-	-

111. In addition to the above, girth measurements recorded for evergreen species in Linear Tree Increment plots at Agumbe by the Silviculturist. Northern zone and those recorded in the book entitled **"Long term Research Sites In Tropical Forests of India"** by S.N. Rai were referred to.

Sl No	**Species**	**Girth**		**Girth MAI**	**MAI Dia in cm as per "LTRSITFI" by S.N. Rai**
		1987	**1992**		
1	Balagi	*106*	*110*	0.80	-
2	Dhuma *(Dipterocarpus indicus)*	134.37	137.59	0.64	0.42
3	Hadsale	188.00	197.75	1.95	-
4	Kadjeeraka *(Garcinia tinctoria)*	126.55	128.14	0.32	0.34
5	Karimara *(Diospyros ebenum)*	93.94	96.64	0.54	-
6	Nagasampige *(Mesua ferrea)*	175.73	178.55	0.56	0.32
7	Powli	87.33	96.50	1.83	-
8	Genasu *(Stereospermum xylocarpum)*	96.27	98.91	0.53	0.36

112. Inventoried forms from all the sample plots (935) laid out in the forests of Sagar forest division have been utilized for analysis. Major species have been recorded separately, whereas the rest of the species are classified under others.

Mean Annual Increment (Diameter) of some of the important species.

Sl No	**Species**	**Common names**	**MAI in cm. Dia**	**MAI in Cm (girth)**	**No of years required for attaining 180 cm girth**	**Source.**
1.	*Adina cordifolia*	Yellow teak	0.29	0.911	197	Rai 1989
2.	*Anogeissus latifolia*	Dindiga	0.39	1.225	140	Mathuda 1955
3.	*Artocarpus hirsuta*	Hebbalasu	0.48	1.508	120	Rai & Sharma 1993

4.	*Bombax cieba*	Boorga	0.59	1.854	97	Inventory 2000
5.	*Dalbergia latifolia*	Beete	0.25	0.786	231	Rai 1978
6.	*Grewia tiliaefolia*	Thadasalu Daman	0.33	1.037	174	Rai & Sharma 1993
7.	*Lagerstroemia lanceolata*	Nandi	0.30	0.943	191	Rai 1981
8.	*Mitragyna parviflora*	Kadavalu	0.49	1.540	117	Rai 1989
9.	*Pterocarpus marsupium*	Honne	0.30	0.943	191	Mathuda 1955
10.	*Santalum album*	Srigandha	0.22	0.691	260	Rai & Sharma 1986
11.	*Tectona grandis*	Teak (Natural)	0.35	1.100	165	Rai 1989
12.	*Tectona grandis*	Thega (Plantation crop)	0.59	1.854	97	Inventory 2000
13.	*Terminalia belerica*	Tare.	0.36	1.131	159	Mathuda 1955
14.	*Terminalia paniculata*	Kindal/ Hunal	0.30	0.943	191	Rai 1981
15.	*Terminalia tomentosa*	Mathi	0.34	1.068	169	Inventory 2000
16.	*Xylia xylocarpa*	Jambe	0.33	1.037	174	Inventory 2000
		Average	**0.369**	**1.161**	**167**	

113. The Basal area, class-wise and the compartment-wise have been calculated by using the formula $\prod r^2/ha$. Further, volume has been derived by applying the formula Basal area x Height x Form factor. The volume per hectare and for the compartment has been calculated taking into account the net area for the assessment of growing stock after deducting areas diverted for other purposes. Though plantations form part of the forest area, they are not included for arriving at the net area, as they do not possess any timber yielding trees. Totally degraded areas also have not been included for net area calculations, as they do not have mature tree growth.

114. On an average, the rate of annual girth increment in case of all the miscellaneous hard wood species excluding plantation teak is **1.16** cm. In case of plantation teak it is **1.86** cm. On an average, the miscellaneous species take 162 years to attain girth of 180 cm at breast height. Keeping this in view and to cover possible errors crept in at the time of collection of data, 10% is deducted from the annual girth rate of increment for determining the exploitable girth. Accordingly the same is utilized for the determination of exploitable girth class trees. In other words the annual diameter increment works out to be around 3.5mm (0.35cm).

115. Data collected through the inventory has been analysed rangewise and divisionwise. Number of trees present in different diameter class has been computed and found that maximum number of trees are found in the 5-10 cm dia class showing that regeneration states is comparatively higher. Further as they mature, the number gets reduced showing inverted "J" pattern (exponential curve). The table showing distribution of trees in different class range wise are given below.

Statement Showing the Distribution of Trees in different Diameter Class and Their Relative Abundance in Sagar Forest Division (Range Wise

Number of trees in Diameter class in cms. Sd=Sound Usd=unsound

Sl. No.	Name of species	Species Code	5 Sd	10 Usd	10 Sd	20 Usd	20 Sd	30 Usd	30 Sd	40 Usd	40 Sd	50 Usd	50 Sd	60 Usd	60 Sd	70 Usd	70 Sd	80 Usd	80 Sd	90 Usd	90 Sd	Total	
1	**Ambligola Range**																						
1	Adina cordifolia (Yethiga)	008	7818	0	1138	0	1387	0	434	0	1209	0	1301	0	820	0	961	0	1094	0	747	16909	0
2	Cordia macloodi (Hadaga)	227	4333	0	5939	0	3678	0	641	0	458	0	134	0	0	0	0	0	0	0	0	15183	0
3	Dalbergia latifolia (Beete)	002	5475	0	7982	0	6683	0	7903	0	1909	0	888	0	375	0	0	0	0	0	0	31215	0
4	Lagerstroemia lancelolata (Nandi)	005	46436	0	54208	0	31623	0	11711	0	12229	0	2076	0	1863	0	1168	0	797	0	0	162110	0
5	Pterocarpus marsupium (Honne)	004	873	0	811	0	444	0	111	0	50	0	50	0	371	0	134	0	688	0	0	3532	0
6	Santalum album (Sandal)	003	371	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	371	0
7	Syzygium cumini (Neralu)	012	349	0	349	0	100	0	0	0	100	0	449	0	87	0	0	0	0	0	323	1757	0
8	Tectona grandis (Teak)	001	39017	0	37953	0	11740	0	2477	0	516	0	414	0	0	0	0	0	0	0	0	92117	0
9	Terminalia belerica (Thare)	061	1455	0	2759	0	599	0	4318	0	2927	0	2251	0	321	0	922	0	375	0	928	16855	0
10	Terminalia paniculata (Hunalu)	007	211780	0	112620	0	58383	0	36886	0	20688	0	11844	0	6537	0	1969	0	0	0	845	461551	0
11	Terminalia tomentosa (Mathi)	006	57074	0	11234	0	19509	0	6438	0	8849	0	5158	0	1880	0	3625	0	0	0	826	114592	0
12	Xylia xylocarpa (Jambe)	017	169927	0	101559	0	110499	0	67076	0	22839	0	4844	0	1344	0	797	0	460	0	0	479345	0
13	Miscellaneous		263992	0	166861	0	131601	0	82933	0	66775	0	21069	0	11236	0	10296	0	2430	0	3559	760752	0
		TOTAL	**808899**	**0**	**503412**	**0**	**376244**	**0**	**220928**	**0**	**138549**	**0**	**50478**	**0**	**24834**	**0**	**19872**	**0**	**5844**	**0**	**7228**	**2156288**	**0**
2	**Shikaripura Range**																						
1	Adina cordifolia (Yethiga)	008	0	0	203	0	293	0	0	0	0	0	0	0	0	0	0	0	0	0	0	496	0
2	Dalbergia latifolia (Beete)	002	14278	0	7206	0	2464	0	747	0	0	0	0	0	0	0	0	0	0	0	0	24695	0
3	Lagerstroemia lancelolata (Nandi)	005	28432	0	1688	0	1237	0	51	0	0	0	0	0	0	0	0	0	0	0	0	31408	0
4	Pterocarpus marsupium (Honne)	004	47179	0	4778	0	4907	0	996	0	0	0	0	0	0	0	0	0	0	0	0	57860	0
5	Santalum album (Sandal)	003	8030	0	886	0	443	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9359	0
6	Tectona grandis (Teak)	001	59876	0	16453	0	1556	0	654	0	0	0	0	0	0	0	0	0	0	0	0	78539	0
7	Terminalia belerica (Thare)	061	1770	0	1029	0	2115	0	1203	0	240	0	710	0	0	0	710	0	0	0	0	7777	0
8	Terminalia paniculata (Hunalu)	007	77641	0	11083	0	2057	0	1716	0	720	0	0	0	0	0	0	0	0	0	0	93217	0
9	Terminalia tomentosa (Mathi)	006	49122	0	11291	0	12617	0	996	0	443	0	0	0	0	0	0	0	0	0	0	74469	0
10	Xylia xylocarpa (Jambe)	017	27378	0	5172	0	1738	0	480	0	0	0	0	0	0	0	0	0	0	0	0	34768	0
11	Miscellaneous		685569	0	124659	0	44137	0	18262	0	6276	0	3550	0	355	0	355	0	145	0	0	883308	0
		TOTAL	**999275**	**0**	**184448**	**0**	**73564**	**0**	**25105**	**0**	**7679**	**0**	**4260**	**0**	**355**	**0**	**1065**	**0**	**145**	**0**	**0**	**1295896**	**0**
3	**Shiralkoppa Range**																						
1	Adina cordifolia (Yethiga)	008	0	0	134	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14	162	0
2	Cordia macloodil (Hadaga)	227	365	0	752	0	213	0	156	0	0	0	0	0	0	0	0	0	0	0	0	1486	0
3	Dalbergia latifolia (Beete)	002	570	0	714	0	235	0	184	0	115	0	0	0	0	0	0	0	0	0	0	1818	0
4	Lagerstroemia lancelolata (Nandi)	005	9167	0	4394	0	1733	0	1543	0	1222	0	627	0	41	0	315	0	77	0	0	19119	0
5	Neolitsea zeylanica (Massi)	029	312	0	312	0	192	0	156	0	0	0	0	0	0	0	0	0	0	0	0	972	0
6	Pterocarpus marsupium (Honne)	004	1676	0	5225	0	836	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7737	0
7	Syzygium cumini (Neralu)	012	731	0	143	0	41	0	214	0	224	0	376	0	450	0	406	0	64	0	156	2805	0
8	Tectona grandis (Teak)	001	2685	0	810	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	0	3587	0
9	Terminalia belerica (Thare)	061	277	0	572	0	388	0	584	0	545	0	1028	0	238	0	402	0	114	0	84	4232	0
10	Terminalia paniculata (Hunalu)	007	33774	0	8878	0	6847	0	3747	0	3719	0	1979	0	1364	0	574	0	410	0	699	61991	0
11	Terminalia tomentosa (Mathi)	006	33272	0	13713	0	4362	0	1670	0	1720	0	1075	0	108	0	277	0	0	0	60	56257	0
12	Vitex altissima (Naviladi)	016	729	0	308	0	1053	0	209	0	182	0	262	0	193	0	246	0	0	0	0	3182	0
13	Xylia xylocarpa (Jambe)	017	25905	0	8621	0	5557	0	4829	0	3263	0	663	0	96	0	313	0	0	0	0	49247	0
14	Miscellaneous		97198	0	40344	0	20471	0	10645	0	5538	0	6501	0	4460	0	2204	0	986	0	739	189086	0
		TOTAL	**206661**	**0**	**84920**	**0**	**41928**	**0**	**24043**	**0**	**16528**	**0**	**12511**	**0**	**6950**	**0**	**4737**	**0**	**1651**	**0**	**1752**	**401681**	**0**

Sl. No.	Name of species	Species Code	Number of trees in Diameter class in cms. Sd=Sound Usd=unsound 5 Sd	5 Usd	10 Sd	10 Usd	20 Sd	20 Usd	30 Sd	30 Usd	40 Sd	40 Usd	50 Sd	50 Usd	60 Sd	60 Usd	70 Sd	70 Usd	80 Sd	80 Usd	90 Sd	90 Usd	Total	
4	**Nagara Range**																							
1	Adina cordifolia (Yethiga)	008	0	0	0	0	524	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	524	0
2	Artocarpus hirsuta (Hebbalasu)	021	15011	0	9788	0	7008	0	2803	0	2603	0	1624	0	501	0	686	0	63	0	0	0	40086	0
3	Dalbergia latifolia (Beete)	002	1347	0	1259	0	1285	0	871	0	149	0	50	0	149	0	0	0	0	0	0	0	5110	0
4	Lagerstroemia lancelolata (Nandi)	005	11978	0	13295	0	14900	0	19769	0	17520	0	12757	0	14183	0	5931	0	2624	0	9455	0	122412	0
5	Manilkara roxburghiana (Ranja)	258	16945	0	17927	0	13564	0	5141	0	3941	0	3084	0	1506	0	273	0	933	0	210	0	63524	0
6	Neolitsea zeylanica (Massi)	029	7243	0	4225	0	1959	0	1434	0	1427	0	218	0	554	0	0	0	0	0	1090	0	18150	0
7	Pterocarpus marsupium (Honne)	004	1426	0	646	0	149	0	1109	0	0	0	705	0	100	0	50	0	358	0	0	0	4543	0
8	Syzygium cumini (Neralu)	012	24248	0	22190	0	17409	0	14801	0	8866	0	9266	0	2692	0	3856	0	7151	0	4958	0	115437	0
9	Terminalia belerica (Thare)	061	3977	0	6577	0	5028	0	3381	0	1334	0	2450	0	1012	0	0	0	555	0	987	0	25301	0
10	Terminalia paniculata (Hunalu)	007	33302	0	34432	0	25971	0	12086	0	9516	0	5369	0	1987	0	1881	0	1423	825	2185	0	128152	825
11	Terminalia tomentosa (Mathi)	006	31725	0	16453	229	13937	229	10075	0	6661	0	3610	0	2794	0	956	0	467	0	596	0	87274	458
12	Vitex altissima (Naviladi)	016	932	0	4546	0	1374	0	847	0	892	0	215	0	0	0	581	0	130	0	493	0	10009	0
13	Xylia xylocarpa (Jambe)	017	1311	0	219	0	1267	0	0	0	711	0	0	0	0	0	573	0	573	0	0	0	4654	0
14	Toona ciliata (Devadari)	071	3457	0	1071	0	2358	0	1665	0	336	0	1280	0	1004	0	0	0	0	0	0	0	11171	0
15	Miscellaneous		1403579	2176	1346838	2623	768991	1772	398399	457	216502	0	118074	0	84201	457	51541	0	24628	0	48974	0	4461727	7485
		TOTAL	**1556481**	**2176**	**1479466**	**2852**	**875725**	**2001**	**472380**	**457**	**270457**	**0**	**158702**	**0**	**110682**	**457**	**66328**	**0**	**38905**	**825**	**68948**	**0**	**5098073**	**8768**
5	**Sagara Range**																							
1	Adina cordifolia (Yethiga)	008	717	0	1077	0	199	0	402	0	155	0	93	0	155	0	629	0	0	0	0	0	3427	0
2	Cordia macloodil (Hadaga)	227	531	0	576	0	1080	0	0	0	260	130	130	0	130	0	0	0	0	0	0	0	2707	130
3	Dalbergia latifolia (Beete)	002	276	0	4582	0	2954	0	2060	0	2039	0	743	0	1261	0	0	0	0	0	518	0	14433	0
4	Lagerstroemia lancelolata (Nandi)	005	6600	0	8962	0	10015	0	13231	155	10158	0	3901	0	3423	0	464	0	708	0	144	0	57606	155
5	Pterocarpus marsupium (Honne)	004	2142	0	512	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2654	0
6	Santalum album (Sandal)	003	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	0
7	Syzygium cumini (Neralu)	012	2336	0	1970	0	636	0	2744	0	872	0	532	0	1093	0	118	0	0	0	0	0	10301	0
8	Terminalia belerica (Thare)	061	1250	0	1551	0	3303	0	2351	0	3840	0	2467	0	93	0	1066	0	316	0	677	0	16914	0
9	Terminalia paniculata (Hunalu)	007	40933	0	34304	0	28777	0	28780	0	20272	0	10223	0	7501	0	3678	0	1999	0	1329	0	177796	0
10	Terminalia tomentosa (Mathi)	006	12356	0	10590	0	8142	0	7825	0	8084	0	1462	0	826	0	1307	0	893	0	560	0	52045	0
11	Vitex altissima (Naviladi)	016	101	0	438	0	130	0	260	0	101	0	130	0	0	0	0	0	0	0	0	0	1160	0
12	Xylia xylocarpa (Jambe)	017	38822	0	51110	0	43308	0	36507	0	25545	0	9575	0	7309	0	3168	0	1186	0	307	0	216837	0
13	Miscellaneous		121192	0	98445	0	69551	0	44869	0	28917	0	16190	0	11131	0	6286	0	3793	0	1954	0	402328	0
		TOTAL	**227338**	**0**	**214117**	**0**	**168095**	**0**	**139029**	**155**	**100243**	**130**	**45446**	**0**	**32922**	**0**	**16716**	**0**	**8895**	**0**	**5489**	**0**	**958290**	**285**
6	**Soraba Range**																							
1	Adina cordifolia (Yethiga)	008	2654	0	2331	0	2148	0	2276	0	2354	0	711	0	1715	0	620	0	0	0	134	0	14944	0
2	Artocarpus hirsuta (Hebbalasu)	021	237	0	0	0	0	0	800	0	1600	0	0	0	0	0	0	0	0	0	0	0	2637	0
3	Cordia macloodil (Hadaga)	227	135	0	25	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205	0
4	Dalbergia latifolia (Beete)	002	5905	0	2298	0	542	0	1460	0	1174	0	413	0	537	0	0	0	0	0	124	0	12453	0
5	Lagerstroemia lancelolata (Nandi)	005	11667	0	10444	0	11781	0	11168	0	11657	0	12619	0	9431	0	4453	130	926	260	1131	0	85277	390
6	Neolitsea zeylanica (Massi)	029	729	0	883	0	5	0	204	0	456	0	185	0	0	0	40	0	0	0	0	0	2502	0
7	Pterocarpus marsupium (Honne)	004	439	0	1083	0	2415	0	2720	0	1813	0	2122	0	764	0	0	0	0	0	0	0	11356	0
8	Santalum album (Sandal)	003	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	0
9	Syzygium cumini (Neralu)	012	7317	0	8561	0	4643	0	4393	0	3319	0	2977	0	3460	0	1170	0	702	130	3178	0	39721	130
10	Tectona grandis (Teak)	001	197	0	428	0	197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	822	0
11	Terminalia belerica (Thare)	061	4298	0	5637	0	4375	0	8336	0	7818	0	5366	0	4555	0	4041	0	1935	130	1908	0	48269	130
12	Terminalia paniculata (Hunalu)	007	104624	0	82857	0	53637	0	55368	0	50989	0	24600	274	19007	0	8275	390	2829	0	3845	0	406031	664
13	Terminalia tomentosa (Mathi)	006	41453	0	39760	0	49959	0	43988	0	32792	0	15310	0	8179	0	4661	0	1000	0	901	0	238003	0
14	Vitex altissima (Naviladi)	016	0	0	54	0	0	0	54	0	0	0	108	0	0	0	0	0	0	0	0	0	216	0
15	Xylia xylocarpa (Jambe)	017	28191	0	64069	0	87548	0	83572	0	56370	0	20775	0	9438	0	3843	0	594	0	571	0	354970	0
16	Dysoxylum malabaricum (White cedar)		312	0	144	0	237	0	0	0	0	0	212	0	212	0	449	0	0	0	636	0	2202	0
17	Miscellaneous		179158	0	204804	158	159742	0	123501	0	87850	0	72690	411	22546	0	15096	0	6341	0	12219	0	883948	569
		TOTAL	**387432**	**0**	**423378**	**158**	**377274**	**0**	**337840**	**0**	**258194**	**0**	**158087**	**685**	**79843**	**0**	**42648**	**520**	**14327**	**520**	**24648**	**0**	**2103671**	**1883**

Sl. No.	Name of species	Species Code	Number of trees in Diameter class in cms. Sd=Sound Usd=unsound 5 Sd	10 Usd	10 Sd	20 Usd	20 Sd	30 Usd	30 Sd	40 Usd	40 Sd	50 Usd	50 Sd	60 Usd	60 Sd	70 Usd	70 Sd	80 Usd	80 Sd	90 Usd	90 Sd	Total	
7	**Anavatti Range**																						
1	Adina cordifolia (Yethiga)	008	764	0	56	0	621	97	438	0	209	97	359	0	97	0	56	0	0	0	0	2600	194
2	Artocarpus hirsuta (Hebbalasu)	021	0	0	374	0	0	0	0	0	674	0	0	0	0	0	0	0	0	0	0	1048	0
3	Cordia macloodil (Hadaga)	227	4516	0	2879	0	5927	0	0	0	0	0	0	0	59	0	0	0	0	0	0	13381	0
4	Dalbergia latifolia (Beete)	002	277	0	59	97	218	0	424	0	424	0	277	0	59	0	0	0	0	0	0	1738	97
5	Lagerstroemia lancelolata (Nandi)	005	10964	0	3844	0	8017	0	7133	0	2548	0	740	0	1080	0	194	0	540	0	0	35060	0
6	Neolitsea zeylanica (Massi)	029	219	0	0	0	1023	0	0	0	396	0	0	0	0	0	0	0	0	0	0	1638	0
7	Pterocarpus marsupium (Honne)	004	194	0	0	0	0	0	94	0	0	0	0	0	194	0	0	0	0	0	0	482	0
8	Santalum album (Srigandha)	003	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
9	Syzygium cumini (Neralu)	012	1633	0	4250	0	3854	0	4004	0	1905	0	165	0	864	0	886	0	0	0	434	17995	0
10	Tectona grandis (Teak)	001	24644	0	95805	0	135003	0	63938	0	4326	0	56	0	112	0	0	0	0	0	0	323884	0
11	Terminalia belerica (Thare)	061	97	0	9855	0	993	0	786	0	1071	0	1134	0	950	0	194	0	0	0	97	15177	0
12	Terminalia paniculata (Hunalu)	007	11963	0	14297	0	10153	0	3233	97	3565	97	2547	0	1837	0	842	0	59	0	0	48496	194
13	Terminalia tomentosa (Mathi)	006	16717	291	14611	291	3215	194	2166	0	1691	0	1435	0	1314	0	499	0	0	0	0	41648	776
14	Vitex altissima (Naviladi)	016	0	0	905	0	518	0	2343	0	2792	0	4289	0	3528	0	1540	0	374	0	2691	18980	0
15	Xylia xylocarpa (Jambe)	017	8357	0	3933	0	4314	97	9340	0	6033	0	2635	0	518	0	231	0	0	0	0	35361	97
16	Miscellaneous		94505	0	120735	0	96997	97	48302	0	23677	0	17619	0	10771	0	5118	0	2036	0	6569	426329	97
		TOTAL	**174853**	**291**	**271603**	**388**	**270856**	**485**	**142201**	**97**	**49311**	**194**	**31256**	**0**	**21383**	**0**	**9560**	**0**	**3009**	**0**	**9791**	**983823**	**1455**
8	**Karagal Range**																						
1	Adina cordifolia (Yethiga)	008	1635	0	8725	0	4669	0	5371	0	1995	0	327	0	304	0	0	0	0	0	0	23026	0
2	Artocarpus hirsuta (Hebbalasu)	021	4259	0	10121	0	6957	0	6714	0	5522	0	4254	0	2128	0	392	0	392	0	847	41586	0
3	Dalbergia latifolia (Beete)	002	4595	0	1357	0	2582	0	2428	0	935	0	0	0	0	0	0	0	0	0	0	11897	0
4	Lagerstroemia lancelolata (Nandi)	005	91328	0	92007	0	60459	0	62774	0	61752	0	43554	0	23639	0	16254	0	5516	0	6612	463895	0
5	Manilkara roxburghiana (Ranja)	258	70557	0	54070	0	31052	0	22799	0	14618	0	10769	0	4167	0	4489	0	1165	0	236	213922	0
6	Neolitsea zeylanica (Massi)	029	639	0	1289	0	1274	0	430	0	244	0	194	0	776	0	0	0	0	0	0	4846	0
7	Pterocarpus marsupium (Honne)	004	11732	0	9570	0	2348	0	7672	0	3660	0	5796	0	1232	0	1411	0	724	0	304	44449	0
8	Santalum album (Srigandha)	003	1635	0	825	0	1152	0	275	0	0	0	275	0	550	0	0	0	0	0	0	4712	0
9	Syzygium cumini (Neralu)	012	70469	0	59957	0	35106	0	33529	1578	22201	0	14517	0	7013	0	5308	0	3599	5523	6706	258405	7101
10	Terminalia belerica (Thare)	061	9957	0	13677	0	9003	0	9408	789	10957	0	5688	0	6104	0	2668	0	985	0	3593	72040	789
11	Terminalia paniculata (Hunalu)	007	46850	0	49200	0	23463	0	22718	0	13042	0	8574	0	6178	0	4882	0	3744	0	1356	180007	0
12	Terminalia tomentosa (Mathi)	006	54154	0	65113	0	39105	0	43295	0	26593	0	15096	0	8589	0	4086	0	1400	0	2011	259442	0
13	Vitex altissima (Naviladi)	016	42497	0	43184	0	29553	0	15389	789	9992	0	6916	0	4407	0	1409	0	1369	2367	2116	156832	3156
14	Xylia xylocarpa (Jambe)	017	7176	0	598	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7774	0
15	Dysoxylum malabaricum (White cedar)		937	0	592	0	0	0	0	0	0	0	310	0	380	0	0	0	0	0	0	2219	0
16	Miscellaneous		3994942	5523	3615774	1578	1922384	789	1218502	7101	647803	398	419027	398	244035	0	105502	0	38231	3080	41277	12247477	18867
		TOTAL	**4413362**	**5523**	**4026059**	**1578**	**2169107**	**789**	**1451304**	**10257**	**819314**	**398**	**535297**	**398**	**309502**	**0**	**146401**	**0**	**57125**	**10970**	**65058**	**13992529**	**29913**
9	**Anandapura Range**																						
1	Adina cordifolia (Yethiga)		7182	-	4177	-	2154	-	2101	-	1078	-	610	-	893	-	202	-	725	-	1091	20212	0
2	Cordia macloodii (Hadaga)		1184	-	1800	-	2436	-	1771	-	305	-	0	-	0	-	0	-	0	-	0	7496	0
3	Dalbergia latifolia (Beete)		5001	-	3534	-	6866	-	7659	-	5616	-	1170	-	174	-	0	-	53	-	0	30073	0
4	Lagerstroemia lancelolata (Nandi)		16852	-	32720	-	15986	-	12917	-	9313	-	3599	-	1546	-	1765	-	96	-	235	95030	0
5	Neolitsea zeylanica (Massi)		255	-	255	-	809	-	60	-	363	-	244	-	281	-	0	-	0	-	0	2267	0
6	Syzygium cumini (Neralu)		1347	-	1659	-	1084	-	514	-	1253	-	427	-	648	-	270	-	116	-	628	7946	0
7	Tectona grandis (Teak)		8902	-	24415	-	6170	-	1173	-	110	-	-	-	-	-	-	-	-	-	-	40769	0
8	Terminalia belerica (Thare)		1763	-	3332	-	4115	-	8061	-	6388	-	4548	-	3736	-	1239	-	1583	-	802	35567	0
9	Terminalia paniculata (Hunalu)		128012	-	140428	-	68539	-	53925	-	24523	-	12107	-	11529	-	3967	-	2275	786	2899	448204	786
10	Terminalia tomentosa (Mathi)		15737	-	26269	-	20728	-	15651	-	9247	-	2279	-	1750	-	17	-	918	-	449	93044	0
11	Xylia xylocarpa (Jambe)		165235	-	170041	-	150152	-	78185	-	16455	-	3284	-	1382	-	0	-	60	-	0	584794	0
12	Pterocarpus marsupium (Honne)	004	983	0	2096	0	2223	0	6369	0	2637	0	3391	0	2148	0	650	0	364	0	344	21205	0
13	Miscellaneous		17155	-	27466	-	9757	-	6721	-	4664	-	3544	-	1281	-	305	-	0	-	0	70893	0
		TOTAL	**369607**	**0**	**438190**	**0**	**291018**	**0**	**195107**	**0**	**81952**	**0**	**35203**	**0**	**25368**	**0**	**8415**	**0**	**6190**	**786**	**6448**	**1457499**	**786**

Sl. No.	Name of species	Species Code	Number of trees in Diameter class in cms. Sd=Sound Usd=unsound																						
			5 Sd	10 Usd	10 Sd	20 Usd	20 Sd	30 Usd	30 Sd	40 Usd	40 Sd	50 Usd	50 Sd	60 Usd	60 Sd	70 Usd	70 Sd	80 Usd	80 Sd	90 Usd	90 Sd	**Total**			
10	**Hosanagar Range**																								
1	Adina cordifolia (Yethiga)		4291	198	16621	237	7585	-	4101	99	1871	-	1909	-	99	-	99	99	-	-	207	36783	633		
2	Artocarpus hirsuta (Hebbalasu)		274	-	802	-	353	-	353	-	-	-	-	-	274	-	-	-	-	-	-	2056	0		
3	Cordia macloodii (Hadaga)		227	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	158		
4	Dalbergia latifolia (Beete)		3340	-	2872	99	5901	-	3500	-	854	-	139	-	-	-	-	-	8	-	-	16614	99		
5	Diospyros ebenum (Karimara)		290	-	128	-	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	546	0		
6	Hopea parviflora (Bhogi)		-	-	-	-	-	-	-	-	-	-	-	-	274	-	-	-	-	-	-	274	0		
7	Pterocarpus marsupium (Honne)	004	6543	25	2737	17	8734	0	7717	768	2511	0	1739	0	627	0	274	0	808	0	0	31690	810		
8	Lagerstroemia lancelolata (Nandi)		5880	-	9634	99	11744	-	18766	-	12966	-	10368	-	4272	232	1987	-	1152	-	2232	79001	331		
9	Manilkara roxburghiana (Ranja)		1206	-	1090	-	1241	-	737	-	-	-	-	-	-	-	-	-	-	-	-	4274	0		
10	Neolitsea zeylanica (Massi)		345	-	455	-	707	-	2248	-	-	-	690	-	-	-	-	-	-	-	-	4445	0		
11	Santalum album (Srigandha)	003	661	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	661	0		
12	Syzygium cumini (Neralu)		13366	144	18348	325	9609	63	6873	453	2770	8	3071	-	1533	-	764	-	228	-	597	57159	993		
13	Tectona grandis (Teak)		889	-	729	-	533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2151	0		
14	Terminalia belerica (Thare)		1923	8	3904	-	5119	-	4092	-	4601	-	2282	-	1349	-	1242	-	301	-	-	24813	8		
15	Terminalia paniculata (Hunalu)		68685	835	83118	1443	52939	99	32224	372	17032	872	11167	-	4270	-	1546	-	453	-	378	271812	3621		
16	Terminalia tomentosa (Mathi)		38336	342	35493	469	32697	559	30039	396	14929	-	8545	207	3804	-	761	-	-	-	-	164604	1973		
17	Vitex altissima (Baranige) (Naviladi)		-	-	-	-	-	-	26	-	715	-	401	-	401	-	-	-	-	-	-	1543	0		
18	Xylia xylocarpa (Jambe)		61982	-	60027	-	47222	-	29895	68	11949	408	8132	-	3128	-	196	-	-	-	196	222727	476		
19	Miscellaneous		395529	6926	371936	2551	200115	1634	132159	2307	70647	549	36310	254	13498	309	3821	-	1845	-	2206	1228066	14530		
		TOTAL	**603767**	**8636**	**607894**	**5240**	**384627**	**2355**	**272730**	**4463**	**140845**	**1837**	**84753**	**461**	**33529**	**541**	**10690**	**99**	**4795**	**0**	**5816**	**2149446**	**23632**		
	SAGAR DIVISION																								
1	Adina cordifolia (Yethiga)	008	25061	198	34462	237	19580	97	15137	99	8871	97	5310	0	4083	0	2567	99	1819	0	2193	119083	827	0.4	1.2
2	Artocarpus hirsuta (Hebbalasu)	021	19781	0	21085	0	14318	0	10670	0	10399	0	5878	0	2903	0	1078	0	455	0	847	87413	0	0.3	0.0
3	Cordia macloodi (Hadaga)	227	11291	158	11971	0	13379	0	2568	0	1023	130	264	0	189	0	0	0	0	0	0	40685	288	0.1	0.4
4	Dalbergia latifolia (Beete)	002	41064	0	31864	196	29730	0	27236	0	13215	0	3680	0	2555	0	0	0	61	0	642	150046	196	0.5	0.3
5	Diospyros ebenum (Karimara)		290	0	128	0	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	546	0	0.0	0.0
6	Dysoxylum malabaricum (White cedar)		4706	0	1807	0	2595	0	1665	0	336	0	1802	0	1596	0	449	0	0	0	636	15592	0	0.1	0.0
7	Hopea parviflora (Bhogi)		0	0	0	0	0	0	0	0	0	0	0	0	274	0	0	0	0	0	0	274	0	0.0	0.0
8	Lagerstroemia lancelolata (Nandi)	005	239304	0	231196	99	167495	0	159063	155	139366	0	90241	0	59478	232	32531	130	12436	260	19809	1150918	876	3.8	1.3
9	Manilkara roxburghiana (Ranja)	258	88708	0	73087	0	45857	0	28677	0	18559	0	13853	0	5673	0	4762	0	2098	0	446	281720	0	0.9	0.0
10	Neolitsea zeylanica (Massi)	029	9430	0	7107	0	5777	0	4376	0	2886	0	1531	0	1611	0	40	0	0	0	1090	33848	0	0.1	0.0
11	Pterocarpus marsupium (Honne)	004	73187	25	27458	17	22056	0	26788	768	10671	0	13803	0	5436	0	2519	0	2942	0	648	185508	810	0.6	1.2
12	Syzygium cumini (Neralu)	012	121797	144	117427	325	72482	63	67072	2031	41510	8	31780	0	17840	0	12778	0	11860	5653	16980	511526	8224	1.7	12.3
13	Santalum album (Sandal)	003	10897	0	1711	0	1598	0	275	0	0	0	275	0	550	0	0	0	0	0	0	15306	0	0.0	0.0
14	Tectona grandis (Teak)	001	136210	0	176593	0	155199	0	68334	0	4952	0	470	0	112	0	0	0	0	0	0	541869	0	1.8	0.0
15	Terminalia belerica (Thare)	061	87281	8	64555	0	34091	0	41479	789	38936	0	26186	0	18120	0	11372	0	6050	130	8992	337062	927	1.1	1.4
16	Terminalia paniculata (Hunalu)	007	757563	835	571216	1443	330765	99	250683	469	164066	969	88410	274	60210	0	27614	390	13192	1611	13536	2277256	6090	7.4	9.1
17	Terminalia tomentosa (Mathi)	006	349946	633	244526	989	204270	982	162143	396	111009	0	53970	207	29244	0	16189	0	4678	0	5403	1181378	3207	3.9	4.8
18	Vitex altissima (Naviladi)	016	44259	0	49435	0	32628	0	19128	789	14674	0	12321	0	8529	0	3776	0	1873	2367	5300	191922	3156	0.6	4.7
19	Xylia xylocarpa (Jambe)	017	534284	0	465348	0	451605	97	309884	68	143165	408	49908	0	23215	0	9121	0	2873	0	1074	1990477	573	6.5	0.9
20	Miscellaneous		7252819	14625	6117861	6910	3423746	4292	2084293	9865	1158649	947	714573	1063	403513	766	200524	0	80435	3080	117497	21553912	41548	70.3	62.3
		TOTAL	**9807878**	**16626**	**8248836**	**10216**	**5027298**	**5630**	**3279470**	**15429**	**1882287**	**2559**	**1114254**	**1544**	**645130**	**998**	**325320**	**619**	**140772**	**13101**	**195094**	**30666340**	**66722**	**100**	**100**
	Sound		**9807878**		**8248836**		**5027298**		**3279470**		**1882287**		**1114254**		**645130**		**325320**		**140772**		**195094**	**30666340**			
	UnSound		**16626**		**10216**		**5630**		**15429**		**2559**		**1544**		**998**		**619**		**13101**			**66722**			
			0.17		**0.12**		**0.11**		**0.47**		**0.14**		**0.14**		**0.15**		**0.19**		**9.31**						

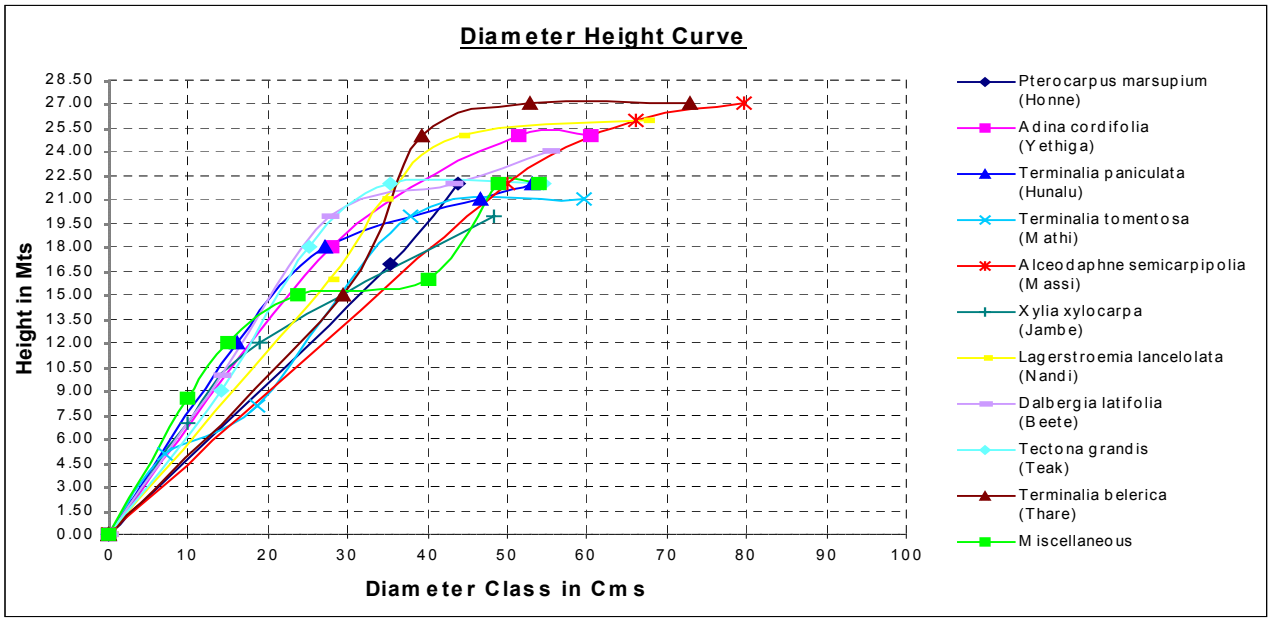
Inventory Analysis

116. As already mentioned, forest inventory has been carried out in the division since 1994 and continued till March 2000. The results are tabulated as follows.

117. Diameter-Height curve has been drawn based on the inventory data collected in the forests of Haridravathi SF, Karadibetta SF, Punaje SF and Maruthipura RF. The Average height of the species is determined by this method. In other words, local volume table tables are constructed by plotting average diameter versus average heights of the trees. This is used for determining the total volume (growing stock) of the forests of Sagar division referring to the general volume table in which volume against diameter is recorded for particular species and the same is utilized for our analysis. The species-wise diameter-height figures are given in the following table followed by diameter-height curve.

Table showing the diameter and height measurements

Species	5-10	Ht	10-20	Ht	20-30	Ht	30-40	Ht	40-50	Ht	50-60	Ht	60-70	Ht	70-80	Ht	>80	Ht
Pterocarpus marsupium (Honne)	0	0	0	0	0	0	35.3	17	43.7	22	0	0	0	0	0	0	0	0
Adina cordifolia (Yethiga)	0	0	0	0	28	18	0	0	0	0	51.5	25	60.5	25	0	0	0	0
Terminalia paniculata (Hunal)	0	0	16	12	27.2	18	0	0	46.5	21	53	22	0	0	0	0	0	0
Terminalia tomentosa (Mathi)	7	5	18.7	8	0	0	37.9	20	0	0	59.5	21	0	0	0	0	0	0
Alseodaphne semecarpifolia (Massi)	0	0	0	0	0	0	0	0	50	22	0	0	66	26	79.8	27	0	0
Xylia Xylocarpa (Jambe)	9.8	7	19	12	0	0	0	0	48.3	20	0	0	0	0	0	0	0	0
Lagerstroemia lanceolata (Nandi)	0	0	0	0	27.6	16	34.6	21	44.1	25	0	0	67.1	26	0	0	0	0
Dalbergia latifolia (Beete)	0	0	14	10	27.7	20			43.3	22	55.4	24	0	0	0	0	0	0
Tectona grandis (Teak)	0	0	14	9	25	18	35.2	22	0	0	54.6	22	0	0	0	0	0	0
Terminalia belerica (Thare)	0	0	0	0	29.3	15	39.2	25	0	0	52.8	27	0	0	72.8	27	0	0
Miscellaneous	10	8.5	15	12	23.8	15	40	16	49	22	54	22	0	0	0	0	0	0



118. It is evident from the graph that most of the species show a tendency to maintain either a constant height growth or slow down in growth after attaining a diameter of 50-60 cms.

Abstract of Inventory Analysis

119. Inventory details collected from 1994 to 2000 were analyzed on compartment level in each range of the division. This is done after deducting the areas utilized other purposes including plantations raised by the KFD and other governmental agencies and areas diverted for non-forestry purposes. Net area was determined to assess the present growing stock. As per the analysis 283 trees per ha with a growing stock of 95.99 m^3 per hectare in the division. Other details including the growing stock of plantations, bamboo, average basal area , etc are given in the following table:

Sl. No	Particulars	Sound	Un-sound	Total	Total Rs in Crores
1	Total Number of trees/ stems in the Division	30666340	66722	30733062	
2	Net Wooded area			108604.79 Ha	
3	Density of trees/ Ha			283 No/ ha.	
4	Percentage of Unsound trees			0.22%	
5	Average Basal Area	17.42	0.10	17.52 Sq.m/ha	
6	Average Farm Factor			0.39	
7	Average Height 2.5-27m (14.75m)	14.75m	14.75m	14.75m	
8	Average Growing Stock (Natural Forest)	95.12m^3	0.87 m^3	95.99 m^3/ha	
9	Approximate Capital Value (Apart from Ecological Benefit) Considering Rs 6000/m^3	10330167 m^3	93950 m^3	10424117 m3	6254.47
10	Approximate Growing Stock of Plantations Acacia-3624.26 ha Teak-7718.13 ha Eucalyptus-259.09 ha Casuarina-152 ha	 3008137 No 4806361 No 335480 No		 152931 m3 378680 m3 18596 m3 2825 m3	
11	Capital value of Plantations 1.Acacia-3624.26 ha 2.Teak-7718.13 ha 3.Eucalyptus-259.09 ha 4.Casuarina-152 ha	 1@ 250m3 2@10000/m3 3@ 250/m3 4@ 250/m3			 3.82 378.68 0.46 0.07
12	Approximate Growing stock of Bamboo crop			9049878 No	
13	Approximate Capital value of Bamboo resource Considering Rs 8/Bamboo(Average) Dry Bamboo	 3080.22 mt			7.23 0.30
14	Total Capital Value of Growing stock available in the Division				6645.03

Capital value of Expenditure

120. Year-wise abstract of revenue earned and the expenditure incurred in the division from 1988-89 to 1997-98 (10 years) is given in the following table.

Sl. No	Year	Revenue in crores	Expenditure in crores	Surplus in crores	Deficit in crores
1	1988-89	1.37	1.10	0.27	00
2	1989-90	0.75	1.38	00	0.63
3	1990-91	0.62	1.48	00	0.86
4	1991-92	1.86	1.34	0.52	00
5	1992-93	1.46	1.06	0.40	00
6	1993-94	1.60	1.34	0.26	00
7	1994-95	0.96	1.59	00	0.63
8	1995-96	3.20	1.53	1.67	00
9	1996-97	5.47	1.97	3.50	00
10	1997-98	2.05	2.22	00	0.17

121. Details of revenue obtained and the expenditure incurred over the above period are given in the **Annexure – 25.**

PART-II.

FUTURE MANAGEMENT DISCUSSED AND PRESCRIBED.

CHAPTER VII.

BASIS OF PROPOSALS.

Section 1.
GENERAL OBJECTS OF MANAGEMENT.

122. In view of the problems of environmental instability and ecological imbalance due to growing population pressure, the Government of India in 1988 had announced the new National Forest Policy. The principal focus of the new policy is on environmental conservation. Derivation of any economic benefit is subordinated to this principal aim. The State Government of Karnataka had by then taken a number of policy initiatives aimed at conservation of forest. Clear felling of natural forest for the purpose of taking up afforestation had been stopped in 1983. Felling of green trees from evergreen and semi-evergreen forests was banned from 1987. This was followed by a ban on felling of green trees from any type of natural forests. In a series of Judgments in the past few years, the Hon'ble Supreme Court of India has not only laid stress on scientific management of forests but also redefined the word 'forest' with much broader meaning and scope. The forests are no longer looked upon as merely a revenue regeneration resource but are mainly recognised for their crucial role in ensuring the environmental stability and ecological balance, which are vital for sustenance of all life forms.

123. In conformity with the above policy guidelines, the main objectives of the working plan for the forests of the division are as follows:

1. To maintain environmental stability and ecological balance by adopting measures to protect, preserve and enrich the existing natural forests with variety of flora and fauna.

2. To apply a system of management which will ensure maximum degree of protection to soil and maintain the forest cover in good condition.

3. To maintain or improve natural and man made forest structure and growth in non-degraded areas to ensure long term sustainability of forest production.

4. To rehabilitate and increase the economic value and utility of the degraded forests.

5. Consistent with the above objectives, to ensure sustainable use of forests to meet the needs of the people, especially the rural and tribal people, living in the vicinity of forests.

6. To encourage tree planting in private lands to meet the local demand of forest produce to a great extent form these areas.

7. To create a massive awareness movement and to ensure people's participation and involvement in all round protection and development of forests.

Section 2.
METHOD OF TREATMENT.

124. It is proposed to achieve the above objectives by providing the following methods of treatment to the forests of the division:

(1) Conserve the ecologically sensitive and bio-diversity rich forest areas of the division.

(2) Provide protection to the forests from various forms of biotic interference including fire, grazing, illicit felling, etc.

(3) Improve the productivity of forests by encouraging natural regeneration and carrying out artificial regeneration with suitable species.

(4) Manage the Teak plantations of the division on silvicultural principles for optimum growth.

(5) Manage the bamboo forests of the division on silvicultural principles.

(6) Carry out salvaging operations of dead and fallen trees in the deciduous forests to augment the supply of timber and firewood.

(7) Manage the fuel wood plantations of the division sustainably in order to cater to the fuel wood and small timber needs of the population.

(8) Restock the forest areas of the division with Sandalwood.

(9) Manage the minor forest resources of the division in a sustainable manner.

(10) Encourage joint forest planning and management (JFPM) programs in the degraded forest areas of the division.

Section 3.
DIVISION OF AREA.

125. The forests included in this report consists of eighty-five State forests, eighty-eight Minor forests, eighty four Reserved forests, five Sandal reserves, one Timber reserve, two wooded blocks and two plantations, totaling two hundred and sixty-seven forests. Range-wise distribution of forests in the division is given below:

Range wise distribution of forests.

Sl No	Range	SF	MF	RF	SR	Plantations	Block	T.R	Total
1	Ambligola	2	11	0	0	0	0	0	**13**
2	Anandapuram	8	6	2	0	0	0	0	**16**
3	Anavatti	5	15	2	2	1	0	0	**25**
4	Kargal	11	0	4	0	0	0	0	**15**
5	Hosanagar	8	1	50	0	0	0	0	**59**
6	Nagara	13	0	10	0	0	0	0	**23**
7	Sagar	6	3	7	0	0	0	0	**16**
8	Shikaripura	5	6	0	3	1	2	1	**18**
9	Shiralkoppa	12	18	0	0	0	0	0	**30**
10	Soraba	15	28	9	0	0	0	0	**52**
		85	**88**	**84**	**5**	**2**	**2**	**1**	**267**

126. Survey and demarcation works were started in the year 1986 but due to financial constraints these had to be continued till the end of 1999-2000, covering around 1,37,648.59 ha constituting 93.11 % of the total area (1,47,829.40 ha) of the division. The balance areas have not been surveyed, as the areas are lost due to either encroachment or submersion or rehabilitation purposes. All the forests have been formed into compartments from 1994 onwards by fixing galvanized iron (G.I) plates, which are numbered. The first number is in Roman letters representing Block number followed by English number representing the compartment number.

127. Division of Forests into Blocks and Compartments has facilitated easy assessment of growing stock. This would also help in systematic management of the forests. There are 595 compartments covering 267 forests, which are clubbed within 28 Forest Blocks. Out of 267 forests, enumeration work has been carried out in 1,32,297.06 ha covering 89.49% of the forests (935 sample plots). The remaining areas were not enumerated as either they do not have the tree growth or have been converted into agricultural lands consequent to encroachment by the local people.

Section 4.
WORKING CIRCLES AND REASONS FOR THEIR FORMATION.

128. Some of the forests under report are contiguous and some are in isolated patches. The climatic, edaphic, biotic and topographic factors in the division vary from locality to locality exhibiting various growth pattern, crop composition, height, density, etc. Further, the dependence on forests by the local people varies from place to place depending on the total population in a locality, their occupation, sociological and economic needs, etc. Because of these reasons, not all the forests under the proposal can be brought under the same prescription. After analyzing the condition and the growing stock of all the forests based on the ground inventory, data interpreted from satellite imagery and the data collected from the ranges (**RAMIS – Range Management Information System),** different treatments were prescribed for different forests depending on the requirement.

129. From the RAMIS data collected and analyzed, it is observed that the average population of each range is about 40,000, children constituting around ¼ of the total population. About 75% of the total households are from the upper castes and 19% and 6% belong to scheduled castes and schedule tribes respectively. Landholding pattern exhibits that only 1% of the population is large farmers, 18% medium farmers, 23% small farmers and 58% are landless labourers. Occupational pattern exhibits that 39% carpenters, 21% brick workers, 17% Basket workers, 12% Blacksmiths and 11% potters. The above trend clearly reflects that majority of the people depend on forests for their needs. There is also a greater pressure on the forests as the landless labourers try to encroach upon forest land for cultivation. Institutional position as per the RAMIS data reveals that though there are self help groups, co-operatives, youth groups, women groups, non-government organisations, temple committees and village forest committees, they have not made much progress and are yet to establish their credentials. As regards the use of the alternative sources of energy, 9233 biogas plants, 5328 smokeless chulas and 43 solar cookers have so far been installed in the division. This is clear evidence of the fact that the division is progressing towards achieving success in forest conservation by resorting to the alternative energy sources. However, efforts in this direction need to be further intensified.

130. Seven working circles have been formed to achieve the objects in view, to exploit the forests without endangering their character, and to improve their present condition. Prescriptions of general nature and having relevance to the entire division have been dealt in the chapter on miscellaneous regulations.

Section 5.
ALLOTMENT OF AREAS TO WORKING CIRCLES.

131. Allotment of areas to various working circles has been given in the concerned chapters on the working circles. The working circles with details of area are indicated in the table below:

Allotment of areas to various working circles in Sagar division

Sl No	Name of working circle	Area of working circle (ha)	Remarks
1	Bio-diversity conservation working circle	33,336.56	22,193.07 ha under Bio-diversity hotspots management, 2986.30 ha under Eco-tourism management and 8157.19 ha under ground water recharge and construction of water harvesting structures. Wildlife areas (21,400.86 ha) are not included. Areas under ground water recharge and construction of water harvesting structures are overlapping in other WCs.
2	Rehabilitation of degraded forests working circle	17,536.15	

3	Improvement working circle	34,075.46	
4	Bamboo overlapping working circle	16,126.76	Overlapping
5	Afforestation and plantation management working circle	42,338.59 * 27,151.39 **	* Includes 3,533.46 ha of non-forest lands, 18213.23 ha of lands under encroachment (to be evicted and planted) ** Section 4 notified area.
6	Sandalwood regeneration overlapping working circle.	761.09	It is an overlapping working circle but 761.09 ha is in Sandal Reserves has been exclusively allotted to the working circle.
7	Minor Forest Produce overlapping working circle	Overlapping	
	Total	1,47,042.05	Overlapping areas have not been added.
	Add	377.57 + 39.50	377.57 ha area under submersion and 39.50 ha under transmission lines
	Deduct	20.00	20.00 ha *Acacia auriculiformis* plantation is in Wildlife area
	Total area of the Plan	**1,47,439.12**	

132. Forest wise details of areas in various working circles are given in **Annexure – 8.** Range-wise abstract is given in **Annexure – 12.**

Section 6.
PERIOD OF THE PLAN.

133. In the present circumstance it is appropriate to fix the period of the Plan for 10 years (2001-2002 to 2010-2011) as it is neither too long nor too short and it can provide a direction to the forest management with the current policies of Government.

CHAPTER VIII.

BIO-DIVERSITY CONSERVATION WORKING CIRCLE.

Section 1.
GENERAL CONSTITUTION OF THE WORKING CIRCLE.

134. Biological diversity is one of the most important components of the Forestry planning in the present day context. Over exploitation of forest resources and destruction of forest habitats have led to the depletion of large number of plant and animal species. Some of the species have even become extinct. The Bio-diversity conservation working circle has been proposed with a view to conserving the existing bio-diversity of the forests of the division. The following activities are considered under the working circle:

(a) Bio diversity hot-spots management.
(b) Wildlife management.
(c) Eco tourism management.
(d) Ground water re-charge and water harvesting structures.

Section 2.
BIO DIVERSITY HOT SPOTS MANAGEMENT.

135. Areas proposed under this activity are forest areas outside the Protected Area network. These forests form a part of the Western Ghats ecosystem, one of the unique bio-diversity hot spots of the world. Areas comprise of rich and diverse forests of moist deciduous, semi-evergreen and evergreen types. Total area proposed is 22,193.07 ha. This area includes 400.59 ha of grassy blanks. Most of these areas are adjacent to the Sharavathi valley wildlife sanctuary and form a corridor for the free movement of wildlife from the sanctuary to the adjoining areas. This ensures better protection of the wildlife habitat besides facilitating free movement of wildlife. In such areas habitat improvement works such as establishment of salt licks, soil and water conservation, deepening of water holes, fire protection, etc have to be undertaken. The list of plants and animal species found in Sagar division are enclosed as **Annexures – 6 and 6a** respectively**.**

136. Sites of special significance.

1. Jog Falls.
2. Talakalale Dam.
3. Muppani Wild Life Nature Camp in the adjoining area.
4. Chakra Dam.
5. Kodachadri.
6. Varahi Dam.

Objects of management.

137. Conservation of rich diversity of flora and fauna for future sustainable use while making use of the ecosystem for the present day generation without affecting the genetic resources of the area.

Suggestions.

138. The Research wing of the Karnataka Forest Department should carry out the following activities:

1. Ecological status of the bio-diversity of forests at landscape, habitat and species level should be surveyed and monitored periodically by adopting appropriate techniques.

2. Regeneration, population and the ecological succession should be assessed periodically to take up conservation measures in respect of species requiring conservation measures. Causes for their depletion or decline should be described in addition to suggesting suitable measures to overcome such depletion or decline.

3. Real Problems of regeneration should be identified. Problems could be due to poor seed setting, absence of mother trees, floral and pollination problems, etc.

4. Strategies for long term monitoring be developed and adopted.

Prescriptions.

139. Territorial division has to carry out the following activities:

1. First priority to be given to conserve biological resources in its habitat followed by ex-situ conservation where it is required.
2. Unregulated removal of indigenous species should be given up.
3. Awareness creation should form a part of conservation program. This could be achieved by using extension methods.
4. People's participation especially by involving women would be more appropriate in the field of conservation.
5. Minor forest produce (MFP) collection should be got done only through either village forest committee (VFC) or LAMP societies.
6. Fire protection measures should be intensified in the area.
7. Soil conservation measures wherever required are to be taken up after preparing site specific plan and getting approved from the Conservator of Forests, Shimoga Circle.
8. No timber extraction is prescribed.
9. Teak plantations coming within this working circle will be thinned as prescribed in the concerned working circle. *Acacia auriculiformis* plantations should be harvested as per the rotation prescribed provided these are situated in the plain areas. Plantations in precipitous slopes should be thinned and miscellaneous species, mainly evergreen and semi evergreen shade bearers should be introduced.
10. The faunal census should be carried out.

11. Habitat improvement works such as salt licks and deepening of water holes should be carried out.
12. Rigid protection to the area should be ensured.
13. Research to support bio-diversity conservation should be contracted out to renowned Institutions like Agricultural Universities.

140. Details of forest and their extents proposed are in **Annexure-8.**

Section 3.
WILD LIFE MANAGEMENT.

141. There are two wildlife sanctuaries coming within the geographical limits of Sagar forest division. These are Sharavathi valley wildlife sanctuary of Sagar taluk and Gudavi bird sanctuary of Soraba taluk. The Government of Karnataka for the purpose of protecting and propagating wildlife and its habitat has notified these areas as wildlife sanctuaries and brought these under the administrative control of a separate division, namely Shimoga wildlife division with it headquarters at Shimoga. Brief accounts of the sanctuaries and activities carried out therein are given below:

Sharavathi valley wildlife sanctuary:

142. Sharavathi valley wildlife sanctuary is spread along the valley of Sharavathi river in Sagar taluk. The area of the sanctuary as per the notification is 431 square kilometers of which 123.63 square kilometers are under the water-spread of Sharavathi reservoir including islands. The total area of forests in the sanctuary including encroachments (44.00 ha), grassy blanks (799.84 ha) and MPM plantations (173 ha in Karani SF) is 21,400.86 ha. The submersion area including islands is 12,870 ha. Altogether, the wildlife area is 34270.86 ha. The forests are mainly evergreen to semi-evergreen forests in the valleys and grassy blanks on the hilltops with diversified flora ranging from herbs to tree crops. Some of the grassy blanks of the sanctuary have been planted up with *Acacia auriculiformis*, *Anacardium occidentale* and some other fruit yielding species. The important species that occur in the valleys are Saldhupa, Gulmavu, Surahonne, Mavu, Nandi, etc. The forests harbour wildlife such as Bison, Spotted deer, Tiger and Panther. The forests have got rich diversity in orchid species too. Even ferns are plenty in number. The hilly area forms the catchment for the Sharavathi reservoir clustered with numerous small and big streams. The sanctuary was declared vide notification No: AFD-22-FWL-74 dated 27.6.1974. The sanctuary has been carved out of Sagar territorial division for which the details are given in the following statement:

Area details of Sharavathi valley wildlife sanctuary.

Sl. No	Name of the Forest	Legal Status	Block No.	Compt No.	Area In Ha.
1	Govardhanagiri	S.F	XX	1-34(34)	13,474.11
2	Karni	S.F	XXI	1-17(17)	5,283.98
3	Muppani Block A	S.F	XIX	4,5,6,7(4)	961.77
4	Muppani Block B	S.F	XIX	8,9,10,11 (4)	628.35
5	Channagonda (P)	S.F	XIX	13(P)	156.10

6	Attigodu	S.F	XIX	1, 2,3(3)	763.65
7	Submersion area*				12,363.00
8	Islands with-in the submersion area*				507.00
9	Talakalale S.F		XVIII-	3(P)	106.90
			XVIII-	4(P)	26.00
					34,270.86

143. The sanctuary has been divided into three zones based on the utility: -

1. Core Area or Core zone.
2. Buffer Area or Buffer zone.
3. Tourism area or Tourism zone.

Zones and their extent

Zone	Forest	Compt	Extent in Ha
Core area	Karni S.F	XXI-1 to 17 (17)	**5,283.98**
Buffer Zone	Govardhanagiri S.F	XX-1 to 34	**13,474.11**
Buffer Zone	Channagonda S.F(P)	XIX-13 (P)	**156.10**
Tourism Zone	Attigodu S.F(Part)	XIX-1 to 3	**763.65**
Tourism Zone	Muppani S.F Block A	XIX- 4 to 7	**961.77**
Tourism Zone	Muppani S.F Block B	XIX- 8 to 11	**628.35**
Tourism Zone	Sharavathi Submersion area		**12,363.00**
Tourism Zone	Islands with in the submersion area		**507.00**
	Talakalale S.F	XVIII- 3-Part of 264.60 ha	**106.90**
		XVIII-4- Part of 203.37ha	**26.00**
		Total	**34,270.86**

144. Sharavathi valley wildlife sanctuary has its own management plan approved for the period 1995-96 to 2000-01 by the Government vide order No. FEF 112-FWL-97 dated 14.9.1998. The sanctuary covers about 23.18% of the total geographical area of the forest in the jurisdiction of Sagar division. Map-17 shows different zones of the Sanctuary.

Summary of the main points of the plan:

145. The main points of the management plan of Sharavathi valley wildlife sanctuary are listed below:

146. **Objectives:**

1. To protect the sanctuary to the fullest extent possible so that many endangered and endemic flora and fauna inhabiting the area are adequately protected.
2. To restore the degraded portions of the sanctuary to attain its original glory through habitat improvement and water shed management.
3. To create awareness among the people about the need to protect the nature in general and sanctuary in particular.
4. To maintain and develop to the extent considered necessary, tourism for recreation, education and scientific exploration.
5. To create a nucleus of wildlife from where the surrounding areas could be stocked by natural regeneration.

147. In order to achieve the above objectives, many activities have been planned and are being implemented since 1996. The gist of activities and the budget for the project period are given in the following table.

Budget Statement

Sl. No	Activity	Budget requirement in Lakhs
1.	Boundary demarcation	27.30
2.	Staff	107.50
3.	Buildings	65.30
4.	Vehicles	14.50
5.	Arms and ammunitions	7.90
6.	Formation and maintenance of Roads	36.10
7.	Habitat development	132.25
8.	Timber harvesting	63.00
9.	Plantation programs	52.25
10.	Tourism management	37.50
11.	Fire protection	52.50
12.	Socio-economic development programs	18.50
13.	Research Activity	18.50
	Grand Total	**633.10**

148. The plan has also stressed on the following points.

- Requirement of the additional staff.
- Absence of residential quarters for the staff and constructional requirement.
- Strengthening of communication facilities.
- Strengthening of arms and ammunitions.
- Maintenance of Nature camps and education center at Muppani.
- Construction of roads.

Gudavi Bird sanctuary:

149. Gudavi Bird sanctuary, situated in Gudavi village of Sorab taluk of Shimoga district, is a well-known Bird sanctuary of Karnataka. This is situated at about 15 kilometer from Sorab towards north at latitude 14^0 25' 41" and Longitude 75^0 1' 28". It spreads over an area of 73.68 ha, The sanctuary has a water-spread area of about 30.00 ha. The water-spread area is bordered on its eastern and southern sides by open moist deciduous forests and on its western and northern sides by agricultural fields. The tank is seasonal and usually gets dry in summer days. Varieties of birds, namely, White Ibis, Darters (Snake birds), Cormorants, Spoonbills, Night herons, etc in addition to other local birds like Cattle egrets, Kingfishers, etc visit this area mainly for purpose of breeding in the months of July to November. Other common Indian birds are seen in large numbers up to 10,000 in the month of December to February.

150. The sanctuary was declared vide Government of Karnataka notifications No. AHFF-262-FWL-86 dated 10.7.1989.

151. *Vitex leucoxylon* and *Phyllanthous polyphyllus* bushes constitute nearly 95% of the vegetation in the sanctuary. The birds mostly perch and build their nests on these bushes. Other species on which the birds build their nests are *Kirganalia reticulata* and *Ficus lacur*. The sanctuary attracts large numbers of visitors Ornithologists, nature lovers, and school children.

152. **Objectives:**

1. To protect the sanctuary to the fullest extent possible, so that many endangered and endemic flora and fauna inhabiting the area are adequately protected and propagated.
2. To create awareness among the people regarding the need to protect nature in general and the sanctuary in particular.
3. To maintain and develop the sanctuary to the extent considered necessary for tourism, recreation, education and scientific exploration.

153. The management plan for protection and development of Gudavi Bird sanctuary has been approved for the period 1996–2001 vide Government order No-FEF 112-FWL-97 dated 14.9.1998. The plan provides for improvement of the habitat of the sanctuary and development of infrastructure in the sanctuary for the convenience of the visitors. Shimoga wildlife division is implementing the approved plan.

Prescription for wildlife management outside the protected area network.

154. The Chief Wildlife Warden, Karnataka, has issued a set of guidelines for general management of wildlife in forest areas outside the protected area network. The guidelines are as follows:

1. Eco- restoration of the habitats by way of moderating the pressure of human demands and allowing the nature to heal the scars of over exploitation of the habitats including replacement of exotic species of plants which do not form part of wildlife food, with indigenous forest species for enrichment of habitat.

2. Habitat manipulation and better preservation of bio-tope including plantations of trees and fodder species fire protection, prevention of erosion and denudation, removal of unwanted species of flora, flood protection.

3. Augmentation of water supply facilities for ponds, dams, wells and for transportation of water and pumping of water.

4. Census of wildlife in reserves by aerial and/or ground survey, enumeration/survey and status of wild animals.

5. Construction work of roads and buildings for patrolling, supervision research and accommodation of staff concerned with the development and management of wildlife services to be located close to the wildlife rich areas.

6. Enrichment of the natural habitats through development of cover, water resources, salt licks, soil and water conservation etc., wherever necessary.

7. Direct measures to mitigate man-beast conflict: may include creation of barriers depredations control squads, early warning systems etc.

8. Indirect measures to mitigate man-animal conflicts: development of pasture lands and woodlands on available community lands and Government lands outside the wildlife habitats, establishment of alternate systems to meet sustenance need of forest-dependent human populations, popularisation of Non-Conventional Energy Systems, changes in Socio-economic practices which lead to intensification of conflict with wildlife.

9. Compensation for depredation by wild animals.

10. Assistance should be provided for constitution of awards, for exemplary work to the subordinate staff. Awards would be confined to subordinate staff up to the level of Assistant Conservator of Forests whereas certificate/citation/medals could be given to the officers above the rank of Assistant Conservator of Forests.

11. Adoption of alternative schemes, such as crop insurance system.

12. Ecological restoration of critical elephant migration corridors and routes.

13. Capture and translocation of problem populations of elephants, translocation and/or elimination of established rouge elephants crop degrading wild bows.

14. Immunisation of cattle in fringe of elephant reserves.

15. Setting up well-equipped squads at strategic point to help the villages in chasing away wild elephants.

16. Erecting electric fences at strategic places.

17. Demarcation and consolidation of considers by procuring land (if approved by Government of India).

18. Capturing of elephant (If approved by Government of India).

19. Publicity and awareness program in and around wildlife habitat.

20. Research/monitoring works.

21. Eco-tourism in these areas has an indirect effect of affording protection to wildlife and hence it could be encouraged.

Section 4.
ECO TOURISM MANAGEMENT.

155. Eco tourism is a new concept introduced into forestry and is fast picking up. It is primarily nature-based activity that aims at educating the public and increasing their awareness about the need for nature conservation.

General constitution and area allotment.

156. Total extent of **2986.30 ha** area is proposed under the eco-tourism management. Areas important from the point of eco-tourism in the division are as follows:

(a) In compartment number XI-37 of Karadibetta State forest, there is a locally well known water spring, which flows down and falls on the Shivaling situated at the foothills of Aiyanakalwari Gudda. People visit the area during Shivarathri and other festivals for performing puja.

(b) Compartment numbers XXIV-2 and 3 of Kodur State forest covering an area of 459.22 ha are very rich in floral composition. These areas are of interest to researchers and Botanists.

(c) Compartment numbers XVIII-6 to 8 of Jog State forest covering an extent of 788.26 ha constitute an important area for eco-tourism as the world-famous Jog falls is situated in this area. The Karnataka Tourism Department has developed an impressive tourism spot attracting thousands of visitors from different parts of the world.

(d) Compartment numbers XVIII-1 and 2 covering an extent of 388.05 ha are ideal for eco tourism activities, as this area has beautiful semi-evergreen to evergreen forests around. The area has forest rest houses or the resting-places for the nature lovers. Added advantage is that famous Mahatma Gandhi Electricity generation center is also situated in these compartments. Further, Jog Falls is in the adjoining compartments. Although facilities have been developed for the enjoyment and convenience of the tourists, these need to be maintained with care for the benefit of nature lovers and tourists interested in forests and wildlife conservation.

(e) Compartment numbers XXVII – 13 and 14 of Kavaledurga in Nagar range house an old fort-built by the Pallegars. The fort attracts a large number of tourists.

(f) Kodachadri is a hamlet of Kottinahole village in Hosnagara taluk situated at a distance of about 46 kilometers west of Hosanagara town. It is at the foot of a peak of the Western Ghats, named Kodachadri, which is a conspicuous landmark. It forms the boundary between the Kundapur taluk of South Kanara and the Hosanagar taluk of the Shimoga district. The height of the peak is 1343 m above the sea level and more than 610 m above the level of the village below. It is clothed with splendid evergreen forest. The top of the peak commands a panoramic view of the Western Ghats and Udupi district. The first portion of the hill is very steep and difficult to ascend. Above this is a temple of Huli-Deva whose idol is made of stone and it has 32 arms. The top of the hill is narrow ridge and is in some place only about 3.66 m across with a precipice on either side. On the west, the hill descends almost perpendicularly for about 1220 m and the forests of Udupi district lie spread out below. The sea appears quite close, and on a clear day, the ships can be seen with the naked eye. There is a thick forest at the foot, called 'Ambavana '("the abode of goddess Durga"). It is said that many rare medicinal herbs are available here. There are two shrines below the peak dedicated to Kala-Bhairava and Uma-Maheshvara in between which there is a tank. The place has small bungalow.

(g) Kamalapura Minor forest has a famous Fort built during reign of the Pallegars, which attracts tourists.

(h) Chandragutti in Sorab taluk is situated about 16 kilometers northwest of Sorab town and is the headquarters of the hobli of the same name. It was formerly well fortified. In olden days, it was called Chandraguptapura, Chandraguttipura, Chandraguttipete and Guttidurga. The village is situated at the base of a high-peaked hill of the same name and is surrounded by a thickly forested area. The summit is 848 m high above the sea level. Granite stone (locally called Chandragutti-Kallu) is found in abundance here. According to a legend, the place had the hermitage of sage Jamadagni, Chandragutti was an early stronghold of the Kadamba kings of Banavasi. In a lithic record-dated 1396 A.D. belonging to the reign of the Vijayanagara kings Harihara II, Bachanna claims to have established himself in the Kadamba Raja's throne and to have ruled over Chandragutti and other areas. Later, it was one of the early acquisitions of the Keladi Nayakas. The Palegar of Bilgi attacked the place in the time of Haidar Ali. It was afterwards sized for a while successively by Parashuram Bhau, a Maratha general, and Dhondia Wagh.

(i) The Renukamba Temple - In a large natural cave called the Renukamba temple there is a small linga, about 15.24 cms high, which is covered with a metal face. (Renuka is locally called Chandragutyamma). Below the cave is a rock shaped like two colossal hips of a woman identified as those of Renuka, who is said to have hidden here when Parashurma pursued her. The outer part of the cave serves as a large sukhanasi. The navaranga appears to be an attempt to imitate in granite the Chalukyan style. It is probably of the late Vijayanagara or Palegar days. Nearby, there are cave shrines of Matangi, a 'sidi', some Naga and 'Masti' stones and an image of Parashurama, 0.76 meter high, with *chakra, shankha and Kamandalu* in his left arm pit, and wearing a jata. Further up is a large 'Tavarekere'(tank with Lotus flower plants). To its east on a rock is a carved foot called 'Sidigally'. To the west is an old fortress of early Vijayanagara type made of un-cemented long stone beams.

(j) The Dandina Durgi Cave - About 30.50 m higher up is a cave which has an image called Dandina Durgi, a fine specimen, about 0.61 meter high. It is Mahishasuramardini standing with eight arms on a 'pani-batlu'. Just in front of this shrine is a small slab of dark stone on which is depicted the self-bending of two men at the feet of Durgi. Lower down and further on by the path is a small shrine containing a linga, perhaps of the early Vijayanagara period. Just in front of the temple is a small pond.

(k) Other Ruins - Proceeding further, a ruined well, a round bastion of a ruined un-cemented fort-wall and a ruined stone mosque beyond, to the south of which are many stone foundations, can be seen. Past the site of some stables, a well, a ruined *darbar mantapa* with arches, a fine fort-wall with a gate, another well and ruins of old fort-walls, the visitor can go to the top were there are basements of two ruined shrines, one of which was that of Chandramaulishwara, which gave the name to the hill. On a projecting spur in the west are a part of the fort with a bastion, some ruined temples, several rock-cut wells, and a large stone building (a magazine resembling the 'gardi' on the Chirtadurga hill).

(l) The place has also a tiled modern temple of Shulada Beerappa full of iron trishulas (tridents) offered by devotees. An annual car festival is held under the auspices of the Renukamba temple for a period of 15 days about the month of March.

157. **Objects of management.**

1. To allow tourists / nature lovers in the forest area without causing any damage or least damage to the surroundings.
2. Allow Tourists, based on the carrying capacity of the area.
3. To establish education centres, information centres or learning grounds to impart knowledge on nature and people and their interrelations including their roles in protection.
4. To gain the confidence of the people in protecting their environment.
5. To foster the tourism industry to generate revenue which would benefit local people as well as the state.
6. To educate school and college students on the importance of nature in the sustenance of mankind.
7. To enhance educational and recreational values.

158. **Stakeholders.**

Main stakeholders are the nature lovers, students and the public.

159. **Prescriptions.**

1. Special arrangements should be made to protect Compartment number XI-37 of Karadibetta State forest from fire during the Shivarathri festival season when large numbers of people visit the Shivalinga situated at the foothills of Aiyanakalwari Gudda.

2. Compartment numbers XXIV-2 and 3 should be strictly protected from all forms of biotic interference to conserve and develop the floral diversity of the area.

3. Facilities for tourists have been developed in the compartment numbers XVIII-1, 2, 6, 7 and 8 surrounding the world famous Jog Falls. There is a Committee called Jog Development Committee constituted by the Government to take care of the development of the area. The Forest department should take up planting in the open areas and on roadside with suitable tree species.

4. The forest compartment numbers XXVII-13 and 14 of Kavaladurga State forest in Nagara range and compartment number 1-8 of Kamalapur Minor forest in Soraba range surrounding the forts of Pallegars should be given rigid protection.

5. The forest in compartment numbers XXV-9 and 10 surrounding the Kodachadri need to be conserved as it is. For the comfort of tourists, there is a Traveler's Bungalow of the Public Work Department. The Forest Department has constructed a paragola. There is need to place some signboards with slogans for the conservation of Nature. There is also need to install a Wireless station to facilitate communication and protection.

6. The forest area in compartment number I-14 in Chandragutti needs to be conserved as it is. A Paragola should be constructed in the area and conservation slogans should be written in and around the area. Plantations with suitable species should be taken up along the approach road and in the surrounding hillocks. An information center may be established at Renukamba temple to educate public and collage students on nature and its importance and their role in the protection of nature etc.

Details of forests (compartment-wise) proposed under eco tourism management:

Sl. No	Range	Forest	Compt	Extent In Ha	Area to be treated	Remarks
1.	Ambligola	Karadibetta	XI-37.	129.83	129.83	Water falls
2.	Kargal	Joga	XVIII-6	269.28	269.28	Water Falls & Tourist spots
			XVIII-7	197.13	197.13	Water Falls & Tourist spots
			XVIII-8	321.85	321.85 (includes 38.62 ha of grassy blanks)	Water Falls & Tourist spots
		Kargal	XVIII-1	188.71	188.71	Resting places
			XVIII-2	199.34	199.34	Resting places
3.	Nagara	Kavaledurga	XXVII-13	208.78	208.78	Fort of Pallegars
			XXVII-14	276.31	276.31	Fort of Pallegars
		Kodachadri	XXV-9	206.23	206.23	Hill station
			XXV- 10.	198.15	198.15	Hill station
4.	Hosanagar	Kodur SF	XXIV2	161.65	161.65	Jenukallammanaudda
			XXIV-3.	297.57	297.57	Jenukallammanagudda
5.	Soraba	Kamalapur MF	I-18	139.46	139.46	Fort of Pallegars
		Chandrgutii	I-14	192.01	192.01	Temple and tourist spots
				2986.30	**2986.30**	

Section 5.
GROUND WATER RECHARGE AND WATER HARVESTING STRUCTURES.

General constitution and area allotment.

160. Recharge of ground water and construction of water harvesting structures are overlapping activities having multiple objectives to meet the demands of multiple stakeholders. Areas requiring focus on ground water recharge and water harvesting activities are much degraded forest areas located mostly in the dry belt of the division. Here, the treatment of areas will be on the lines of watershed development. Non-forest degraded areas coming in the watershed will also be covered. The extent of forest area to be tackled under this activity is 8157.19 hectares.

161. **Objectives of management**

1. To harvest water run off.
2. To conserve soil moisture and increase the water table.
3. To check soil erosion and soil degradation.
4. To enrich the fertility of the soil thereby increasing the productivity of the area.
5. To clothe the area with vegetal cover.
6. To facilitate ground water re-charge and water harvesting.

162. **Prescriptions.**

1. The Range Forest officer should prepare a site-specific plan for the treatment of the watershed after due inspection. Size of the watersheds should normally not exceed 2000 ha per watershed including non-forest areas.

2. Treatment of the watershed including designing of water harvesting structures should be prescribed on the basis of analysis of the total rainfall and total run off of the area.

3. Construction of soil and water conservation structures such as gully plugs, pick ups, check dams, nala bunds and vegetative gully plugs may be taken up to check soil erosion and to maximise conservation of water.

4. Afforestation should be given priority in the treatment of watersheds. While taking up afforestation and soil conservation works, the concept of development on watershed basis should be adopted. The treatment should start form the ridge point downwards and not vice versa. For the convenience of treatment, the watershed should be further divided into micro-watersheds.

5. In areas receiving higher rainfall (above 800 mm), bigger check dams and nala bunds are to be preferred and smaller structures should be avoided, as these are likely to get washed out during rains.

163. Areas proposed for carrying out activities for recharge of ground water and construction water harvesting structures are indicated in the following table:

Sl. No	Range	Forest	Compt	Extent	Area to be treated	Remarks
1.	**Ambligola**	Karadibetta	XI-5	118.05	118.05	
			XI-6	230.69	230.69	1 Micro W.S
			XI-7	238.58	238.58	
			XI-8	195.63	195.63	
			XI-12	222.81	222.81	1 Micro W.S
			XI-14	168.78	168.78	1 Micro W.S
			XI-15(P)	329.17	329.17	
					1503.71	
		Belandur S.F	XII-15	460.56	460.56	1 Micro W.S
			XII-16	429.46	429.46	1 Micro W.S
			XII-17	452.00	452.00	1 Micro W.S
			XII-19	238.61	238.61	
				1580.63	**1580.63**	
2.	**Anavatti**	Talgadde	V-2	143.76	143.76	1 Micro W.S
			V-3	293.82	293.82	1 Micro W.S
			V-4	392.09	392.09	1 Micro W.S
			V-5	465.35	465.35	1 Micro W.S
				1295.02	**1295.02**	
		Hurali SR	VI-1	315.56	315.56	1 Micro W.S
			VI-2	317.26	317.26	1 Micro W.S
				632.82	**632.82**	
3.	**Shikaripura**	Gangavvanasara	X-9	307.21	307.21	1 micro WS
			X-10(P)	318.91	318.91	
			X-11(P)	48.63	48.63	
			X-12	290.70	290.70	1 micro WS
			X-13	264.92	264.92	1 micro W.S
					1230.37	
4.	**Shiralkoppa**	Gudenkoppa	VII-1	191.48	191.48	1 Micro W.S
		Udri SF	VII-2	405.93	405.93	1 Micro W.S
			VII-5	227.06	227.06	1 Micro W.S
			VII-6	284.56	284.56	1 Micro W.S
				1109.03	**1109.03**	
5.	**Soraba**	Hirehavali MF	III-3	93.48	93.48	1 micro WS
			III-5	164.00	164.00	1 micro WS
			III-7	352.63	352.63	1 micro WS
		Guddadahosalli SF (Shiralkoppa Range)	VII-7	195.50	195.50	1 micro WS
				805.61	**805.61**	

Abstract	
Ambligola	**3084.34**
Anavatti	**1927.84**
Shikaripura	**1230.37**
Shiralkoppa	**1109.03**
Soraba	**805.61**
Total	**8157.19**

164. All the areas indicated above are overlapping in other working circles such as. Rehabilitation of degraded forests working circle. Improvement working circle, Afforestation and plantation working circle, etc.

165. The total area covered under the Bio-diversity conservation working circle is 33,336.56 hectares. This does not include the wildlife areas (21400.86 ha) managed by Shimoga wildlife division. **Map-17** displays the compartments proposed for the working circle.

CHAPTER IX.

REHABILITATION OF DEGRADED FORESTS WORKING CIRCLE.

Section 1.
GENERAL CONSTITUTION AND ALLOTMENT OF AREA.

166. This working circle mainly comprises much degraded forests. These are areas with or without rootstock, situated either in hilly terrain or in plains, where the soil depletion is considerable. Because of poor soil condition, these areas have lost their capacity to sustain good vegetation capable of regenerating itself. Being directly exposed to the sun and rain, the land-cover gets further degraded resulting in increased run-off, reduced infiltration and lowering of ground water table. The immediate need is to revegetate the areas in order to facilitate rehabilitation of the degraded forests. The total area to be tackled under this activity is 17,536.15 hectares. The details of compartments are given in **Annexure-8** and are displayed in **Map-19.** Details of areas having good rootstock and poor rootstock are indicated in **Annexure-28.**

Section 2.
SPECIFIC OBJECTIVES OF MANAGEMENT.

167. Specific objectives of management of the working circle are as follows:

1. To improve the quality and quantity of the growing stock by giving rigid protection against grazing, illicit cutting and fire.

2. To assist facilitate natural regeneration including regeneration from rootstock.

3. To supplement natural regeneration by artificial regeneration.

Section 3.
PRESCRIPTIONS.

168. The following prescriptions are to be followed in the working circle.

1. No extraction of natural growth should be taken up in the areas included in the working circle.

2. Rigid protection against fire, grazing and illicit felling should be provided to assist natural regeneration.

3. Enrichment planting should be done to restock the degraded forests with indigenous species. Ficus, Neem, Honge, Sandal, Bage, Mathi, Nandi, Tapsi etc. should be given preference in the afforestation program.

4. Dibbling of seeds should be done in bushes and furrows.

5. Wherever natural regeneration is good, it may be assisted by providing cultural operations like weeding and soil working to improve the growth. Trimming and pruning of side brunches should also be done, if necessary.

6. Construction of soil and water conservation structures such as gully plugs, pick ups, check dams, nala bunds and vegetative gully plugs may be taken up to check soil erosion and to maximise conservation of water.

7. While taking up afforestation and soil conservation works, the concept of development on watershed basis should be adopted. The treatment should start from the ridge point downwards and not vice versa. For the convenience of treatment, the watershed should be further divided into micro-watersheds.

8. In dry localities, planting of Agave for treatment of nullahs and highly eroded areas should be encouraged.

9. Plantations coming in the areas included in the working circle should be worked as per the prescriptions given in the Afforestations and plantation management working circle.

Section 4.
TREATMENT SCHEDULE

169. **Treatment schedule for restoration through natural and assisted regeneration.**

Sl No	Range	Total extent	Treatment schedule year wise.										Area to be planted in ha
			01	02	03	04	05	06	07	08	09	10	
1	Ambligola	999.55	100	100	100	100	100	100	100	100	100	99.55	999.55
2	Anandpuram	354.11	100	100	100	54.11							354.11
3	Anavatti	1476.49	150	150	150	150	150	150	150	150	150	126.49	1476.49
4	Hosanagar	4696.32	500	500	500	500	500	500	500	500	500	196.32	4696.32
5	Kargal	00.00											00.00
6	Nagara	424.27	50	50	50	50	50	50	50	50	24.27		424.27
7	Sagar	205.16	50	50	50	55.16							205.16
8	Shikaripura	6109.93	600	600	600	600	600	600	600	600	600	709.93	6109.93
9	Shiralkoppa	646.89	50	50	50	50	50	50	50	50	50	196.89	646.89
10	Soraba	2623.43	275	275	275	275	275	275	275	275	275	148.43	2623.43
		17536.15											**17536.15**

(For compartment details, **Annexure-8** may please be referred to)

CHAPTER X.

IMPROVEMENT WORKING CIRCLE.

Section 1.
GENERAL CONSTITUTION OF THE WORKING CIRCLE.

170. This working circle extends over the dry and moist deciduous forests of the division. The forest areas included in this working circle have been worked in the past for timber and firewood under selection system. The principal species found in the forests are *Tectona grandis, Dalbergia latifolia, Terminalia tomentosa, Terminalia paniculata, Terminalia chebula, Anogeissus latifolia, Pterocarpus marsupium, Mitragyna parviflora, Kydia calycina, Lagerstroemia parviflora, Madhuca longifolia, Lagerstroemia lanceolata, Emblica officinalis, Bombax cieba, Mimusops elangi, Artocarpus hirsuta, Dysoxylum malabaricum, Syzygium cumini, Butea monosperma and Dalbergia paniculata, etc.* Both big and small bamboos are found in varying proportions. Big bamboo is more predominant in moister localities.

Top canopy species:
171. *Tectona grandis, Dalbergia latifolia, Terminalia tomentosa, Terminalia paniculata, Adina cordifolia, Mitragyna parviflora, Syzygium species. Pterocarpus marsupium, Lagerstroemia lanceolata, Artocarpus hirsuta, Bombax cieba, etc.* In relatively moister area*, Schizigium arnotiana, Vitex altissima, Holigarna arnottiana, Mangifera indica and, Aporosa lindleyana* in semi-evergreen forests.

Middle Canopy species:
172. *Xylia xylocarpa, Grewia tiliaefolia, Artocarpus hirsuta, Emblica officinalis, Butea monosperma, Mimusops elangi, Lagerstroemia parviflora, Diospyros melanoxylon, Semicarpus anacardium etc.* In moister localities *Caryota urens, Actinodaphne hookeri, Cinnamomum zeylanicum* are also found.

Ground flora:
173. *Holarrhena antidysenterica, Randia dumetorum, Carissa carandas, Lantana camera, Solanum verbascifolium, Flacourtia* sp., *Murraya konigii* and others.

174. During the inventory works carried out in these forests it was found that the basal area varies from compartment to compartment, maximum being 57 m^2/ha in Kudrur forest of Kargal range and the minimum being 1 m^2/ha in Kyasanur forest. The average basal area of the compartments that are proposed under this working circle is 20 m^2/ha. This figure is comparatively lower than the potential basal area of these forests. The basal area in some of the Linear Tree increment (LTI) plots in the moist deciduous forests in Karnataka is as high as 20.48 square meters per hectare (Rawalwada – 42.74, Usoda – 47.77, Shingatageri – 22.67, Karka – 34.67, Bailpar – 33.81, Virampalli – 28.37, Aurla – 29.74, Shiroli – 21.64, Phansoli – 27.57, Jamaga – 23.79, Kulgi – 25.82, Bhagwati 1 – 25.19, Adikehosur – 19.66, Bhagwati 2 – 22.95, Mainal – 29.49). The information regarding the Basal area in various LTI plots in Karnataka has been documented in "Long Term Research Sites in Tropical Forests of India" by Dr. S.N. Rai. Because of the unsatisfactory condition of the forests as indicated by relatively poor growing stock and lower basal area and keeping in view the present policy of the Government against felling of green trees, it is proposed not to take up felling of green trees in these forests. Removal

of dead and fallen trees followed by regeneration has been prescribed in the Improvement working circle.

Section 2.
SPECIFIC OBJECTIVES OF MANAGEMENT.

175. The main objectives for the constitution of the working circle are:

1) To maintain environmental stability through preservation and restoration of ecological balance.
2) To conserve natural flora and fauna.
3) To check soil erosion and denudation in the catchment areas of rivers flowing across these forests.
4) To maintain or improve natural forest structure and growth in non-degraded areas to insure long term sustainability of forest production.
5) To increase the productivity of natural forests and to make degraded forest areas productive.
6) Consistent with the above objectives, to ensure sustainable use of forests to meet the needs of the people by salvaging the dead and fallen material.

Section 3.
ALLOTMENT OF AREAS TO THE WORKING CIRCLE.

176. Dry and moist deciduous forests of the division covering an area of 34075.46 hectares have been included in the working circle. The compartments are displayed in **Map-20** and area details are given in **Annexure-8.** These forest areas are located in all the ranges of the division. For the convenience of operation and treatments, the following working series are proposed:

Name of the working series.	**Area in hectares.**
Ambligola working series (Ambligola, Shikaripura and Shiralkoppa ranges)	5482.89
Anandapuram working series (Anandapuram range)	6115.43
Hosnagara working series (Hosnagara and Nagara)	7327.21
Sagar working series (Sagara and Kargal ranges)	5943.85
Soraba working series (Soraba and Annavatti ranges)	9206.38
Total	**34075.46**

177. An abstract of the allotment of areas to various working series is given below:

Abstract of the allotment of areas to the working series:

Sl No	Name of the working series	Name of the SF / MF		Block & Compt. Number	Area in Ha	Total area of the Felling series
1	Ambligola working series					
	Ambligola Range	1	Belandur SF	XI-5(P),XI- 7& 8, XI-10-19(13)	5579.10	3725.46
		2	Karadibetta	XI-12,13,XI-21, -28(P), XI-30, XI-31 & XI-32(P) (7)	4967.74	1056.87
						4782.33
	Shikaripura Range	1	Suthabande MF	IX-13(P)		**287.65**
						287.65
	Shiralkoppa Range	1	Belandur SF	XII-3(P),4(p),5(p)		143.41
		2	Karjikoppa	iii-16(p)		11.72
		3	Shigga II SF	VII-13		6.14
		4	Induvalli MF	VII-15		73.42
		5	Shigga MF	VII-14		126.29
		6	Sydalkoppa MF	VII-20		51.63
						412.61
				Total		**5482.59**
2	Anandpuram working series					
	Anandpuram Range	1	Chipli Aiginabailu SF	XIII-24	190.22	112.60
		2	Gilalgundi SF	XIV-3 –XIV-7(5)	1122.31	957.81
		3	Karadibetta SF	XI –22(P), XI-24-25,XI-26(P),27,XI-28,29,XI-32(P) &33(P),XI-34-36, XI-38-40(15)	3330.40	2234.47
		4	Korgi SF	XIV-8, XIV-9, & 10,	928.54	672.24
		5	Malali SF	XII-5	312.25	283.01
		6	Malandur SF	XIII-8 to 13 & 15-XIII-19	2590.04	988.92
		7	Telaginamane SF	XIII –1 to 4	578.73	567.38
		8	Byrapura MF	XIII - 20	274.79	246.79
		9	Tuppur MF	XIV-11		52.21
				Total	**9923.74**	**6115.43**
3	Hosanagara working Series					
	Hosanagara Range	1	Haridravathi SF	XXIV-8 to 17(10)		1290.93
		2	Jamballi SF	XXIV-16 &17		513.18
		3	Jeni SF	XXII-1 to 4 (4)		601.13
		4	Kolagi SF	XXIII-10		125.93
		5	Sharmanavathi SF	XXIII-6 & 7		253.03
		6	Neelakantha MF	XXIII-34		162.37
		7	Bilki RF	XXIV-29		102.99
		8	Devarahonnekoppa RF	XXIV-46		53.90
		9	Harthalu RF	XXIV-30 &31		119.42

		10	H.Hunasvalli RF	XXIV-48		138.19
		11	Hilagodu RF	XIII-26		63.78
		12	K.Hunasavalli RF	XIV-32 &33		90.82
		13	Kolavadi Habbigal RF	XXIV-56 &57		218.54
		14	Maruthipura RF	XXVI-32		215.63
		15	Mathuru RF	XXIV-19		90.72
		16	Nellunde RF	XXIII-29		63.97
		17	Punaje RF	XXIV-53-55		400.36
		18	Halgudde RF	XXIV-26,27,36		622.03
						5126.52
	Nagara Range	1	Baise SF	XXVI-6 &7		218.97
		2	Kavale durga SF	XXVII-6, 10,11,12,15(5)		1075.45
		3	Kodasi SF	XXVII-4, 5		541.47
		4	Mathikai SF	XXVI-1,2,3 &4		364.80
						2200.69
					Total	**7327.21**
4	Sagar working series					
	Kargal Range	1	Kudrur I SF	XXII-1 to 7		1590.74
		2	Kudrur II SF	XXII-8 to13		1596.30
						3187.04
	Sagar Range	1	Belandur SF	XII-1 (P),XII-2(P),XII-3(P), XII-4(P), XII-5(P),XII-9(P)-(6)		1439.37
		2	Maisavi SF	XV-3 (P),XV-4(P) XV_5(P),XV-6		601.79
		3	Ullur SF	XV-8 & 9		256.54
		4	Bhadrapura MF	XV-2(P)		33.96
		5	Bilisiri MF	XV-7		84.61
		6	Malali RF	XIII-22		52.57
		7	Marur RF	XV-13		81.96
		8	Masuru RF	II-27		165.18
		9	Nadavadahalli RF	XVI-5		40.84
						2756.82
					Total	**5943.86**
5	Soraba working Series					
	Anavatti working Series	1	Kuppagadde SF	IV-4 & IV-5	579.46	545.46
		2	Tavanandi SF	IV-9 and IV-10	735.11	622.83
		3	Kuppagadde- MF	IV-6	80.94	60.94
		4	Tyavagodu MF	IV-11	161.01	140.01
		5	Tavanandi MF	IV-16	114.01	97.01
				Total	**3372.43**	**1466.25**
	Soraba Range	1	Avalgodu SF	III-11,12		619.79
		2	Belandur SF	**XII-1(P),2(P),3(P)**		300.00
		3	Chandragutti SF	**I-15**		276.75
		4	Gunjanur SF	**II-3**		280.37
		5	Halgalale SF	**III-9**		285.40
		6	Harishi B-II SF	**I-6**		112.89
		7	Hirehavali SF	**III-4,5,**		244.50
		8	Idur SF	**I-3 & 4**		380.59
		9	Karjikoppa SF	**III-14, 15, 16(P).**		737.27
		10	Kyasanur-I SF	**II-17**		280.34
		11	Kyasanur-II SF	**II-18,19**		355.60

		12	Maisavi SF	**XV-3(P), 4(P) & 5(p).**		226.78
		13	Bhadrapura MF	**XV-2(P)**		40.89
		14	Chilanur MF	II-13		23.56
		15	Chimnur MF	III-8(P)		587.52
		16	Dandavathi	III-1, 2		388.40
		17	Dugur MF	III-17		90.48
		18	Harishi MF	I-1		78.69
		19	Heggodu MF	III-10		154.41
		20	Hirehavli MF	III-3		90.48
		21	Jamballi MF	II-2		171.47
		22	Kakkarsi MF	II-9		297.12
		23	Kanthanahalli MF	II-1		230.86
		24	Kodakani MF	III-7		196.16
		25	Kyasanur MF	II-15		10.12
		26	Sagadde MF	III-13		344.48
		27	Shanthakoppa MF	II-12		104.2
		29	Tyavagodu MF	IV - 11		20.23
		30	Thandige MF	II - 7		99.15
		31	Vantigadde	II - 16		149.74
		32	Yalasi MF	II - 10		126.48
		33	Baragi RF	II-22		44.08
		34	Chilnur RF	II-24		45.47
		35	Edur RF	I - 20		191.48
		36	Kyasanur RF	I - 25		127.48
		37	Ulavi RF	III-18		5.11
		38	Veerannapura RF	II-20		21.66
						7740.13
					Total of WS	**9206.38**
					Grand total of WC	**34075.46**

Section 4.
WORKING CYCLE.

178. A working cycle of 10 years has been proposed. The entire area of the working circle will be gone over in the period of 10 years.

179. Each working series has been divided into ten blocks of comparable size. Each of these blocks is an annual coupe. Each coupe has been formed by grouping existing forest compartments. The details of area and time schedule are given in the following tables:

(1) Ambligola working series :

Year	Block & Compt	Extent In Ha
2001-2002	XII – 5(p), 7,8	506.39
2002-2003	XII – 10, 11	561.89
2003-2004	XII –12, 14	650.62
2004-2005	XII – 13	422.30

2005-2006	XII – 15	460.56
2006-2007	XII – 16, 17	523.46
2007-2008	XII – 18, 19	602.24
2008-2009	XI – 12, 13, 21	513.53
2009-2010	XI – 28(p), 30, 31, 32(p)	541.34
2010-2011	IX – 13(p), XII – 3(p), 4(p), 5(p), III – 16(p), VII – 13, 14, 15, 20	700.26
	Total area of the working series	**5482.59**

(2) Anandapuram working series

Year	Block & Compt	Extent In Ha
2001-2002	XIII – 24, XIV – 3, 4, 5	583.03
2002-2003	XIV – 6, 7, XI – 22(p), 24, 25	643.62
2003-2004	XI – 26(p), 27(p), 28(p), 29, 32(p)	546.85
2004-2005	XI – 33(p), 34, 35	705.12
2005-2006	XI – 36, 38, 39	587.75
2006-2007	XI – 40, XIV – 8	526.07
2007-2008	XIV – 9, 10, XIII – 5	667.69
2008-2009	XIII – 8, 9, 10, 11, 12	585.44
2009-2010	XIII – 1, 2, 13, 15, 16, 17, 18, 19	699.94
2010-2011	XIII – 3, 4, 20, XIV – 11	569.92
	Total area of the working series	**6115.43**

(3) Hosnagara working series

Year	Block & Compt	Extent In Ha
2001-2002	XXIV – 8, 9, 10, 11	702.57
2002-2003	XXIV – 12, 13, 14, 15, 16	786.92
2003-2004	XXIV – 17, XXIII – 1, 2, 3	761.56
2004-2005	XXIII – 4, 6, 7, 10	532.75
2005-2006	XXIII – 27, XXIV – 26, 27, 29, 46, 48.	675.24
2006-2007	XXIV – 30, 31, 32, 33, 36, XIII - 26	678.26
2007-2008	XXIII – 29, 53, XXIV – 19, 56, 57, XXVI – 32	668.40
2008-2009	XXIII – 54, 55 XXVI – 6, 7,	762.09

	XXVII – 6	
2009-2010	XXVII – 10, 11 , 12 , 15	853.15
2010-2011	XXVI – 1, 2, 3, 4, XXVII – 4, 5	906.27
	Total area of the working series	**7327.21**

(4) Sagar working series

Year	Block & Compt	Extent In Ha
2001-2002	XII – 1(p), 2(p)	535.86
2002-2003	XII – 3(p), 4(p)	516.30
2003-2004	XII – 5(p), 9(p)	644.40
2004-2005	XV – 6, 8, 9	601.26
2005-2006	II – 27, XIII – 22, XV – 2(p), 7, 13, XVI – 5.	459.12
2006-2007	XXII – 1, 2	642.92
2007-2008	XXII – 3, 4, 5	624.01
2008-2009	XXII – 6, 7, 8	580.88
2009-2010	XXII – 9, 10, 13	530.55
2010-2011	XXII – 11, 12, 13	808.55
	Total area of the working series	**5943.85**

(5) Soraba working series

Year	Block & Compt	Extent In Ha
2001-2002	III – 11, 12 XII – 1(p), 2(p), 3(p)	919.79
2002-2003	I – 6, 15, II –3, III – 9	955.41
2003-2004	I – 3, 4, III – 4, 5, 14	872.06
2004-2005	II – 17, 18, III – 15, 16(p)	1094.18
2005-2006	II – 13, 19, III – 1, 8 XV – 2(p), 3(p), 4(p), 5(p)	1079.45
2006-2007	I –1, II – 2, III – 2, 3, 10 , 17	805.42
2007-2008	II – 1, 7, 9 , 12, 15, III – 7, IV - 11	957.84
2008-2009	I – 20, II – 10, 16, 22, 24, III - 13	901.73
2009-2010	I – 25, II – 20, III – 18, IV – 4, 5, 9	1020.05
2010-2011	IV – 6, 10, 11, 16	600.45
	Total area of the working series	**9206.38**

Section 5.
RULES FOR MARKING AND SALVAGING.

180. The following rules are prescribed for marking and salvaging dead and fallen trees:

1. Only dead and fallen trees should be marked. The Deputy Conservator of Forests should inspect the area and he should check marking.

2. Marking should be checked 100% by the Range Forest Officer and at least 50% by the Assistant Conservator of Forests.

3. Marking should start from the month of September and extraction should be completed before March of the subsequent year.

4. The gap between two successive workings should be ten years.

5. As far as possible, departmental elephants should be used for dragging.

6. No new roads should be formed and the existing old extraction paths should be used for carting the material.

Section 6.
IMPROVEMENT OPERATIONS.

181. The coupe area, after the removal of dead and fallen material, will be taken up for improvement operations. As the forest area is more degraded, the improvement operations will also include raising of plantations wherever required. But the total extent of the area to be treated by gap planting, under planting, tending operations, protection or by their combination in a coupe should not exceed 10% of the coupe area. For this purpose, areas requiring any treatment in the coupe should be identified and marked on the coupe map. For carrying out the improvement operations, the area should be effectively fenced by using barbed wire fencing. Grazing should not be permitted in such areas for a minimum period of 10 years. All the advance works should be completed before the onset of monsoon by aligning the area at suitable espacements depending upon the gaps but in any case plant to plant distance should not be less than 5 meters. In case the patches are covered with weeds, the same may be cleared and where the gaps are bigger alignment at regular espacement of 5m x 5m may be done. Selection of species should be done to suit the local requirement. Suitable local miscellaneous species like Teak, Rosewood, Honne, Matti, Nandi, Kindal, etc. may be chosen. One to two years old tall and healthy seedlings of these species should be used for planting. In respect of teak, per-sprouted poly-bagged seedlings raised from teak stumps should be used. All the seedlings should be sufficiently hardened in the nursery before they are brought for planting. All planting works should be completed by the end of June. The seedlings should be given a good soil working. Soil working to the prominent natural seedlings will boost their growth. The success of the planting will depend upon the quality of protection provided to the plantation. Therefore, protection measures need to be strengthened. In fact, if the area can be effectively protected from fire and grazing successively for 3-5 years, tremendous improvement will take place in the site. Along with the planted seedlings, substantial natural regeneration, both of seed and of coppice

origin, will show up in response to continuous protection measures. Bamboo regeneration will also come up profusely from hitherto suppressed rhizomes. It is reiterated that rigid protection of the treatment area from fire is necessary. For this fire lines around the area and criss-cross fire lines within the area may be maintained. All fire tracing works should be completed by the end of December.

182. The details of planting/nursery/cultural operations etc. are not given here as these are already standardised and the same may be followed as per prevalent practices.

CHAPTER – XI.

BAMBOO OVERLAPPING WORKING CIRCLE.

Section 1.
GENERAL CONSTITUTION OF WORKING CIRCLE.

183. This is an overlapping working circle comprising of the bamboo bearing forests of Sagar division. Both big and small bamboos *(Bambusa arundinaceae and Dendrocalamus strictus)* occur in the tract. The incidence of the former species is more compared to the latter. The habitat of bamboo is confined to the deciduous forests. Its principal associates are *Anogeissus latifolia, Terminalia tomentosa, Terminalia paniculata, Terminalia belerica, Lagerstroemia lanceolata, Dalbergia latifolia, Pterocarpus marsupium, Albizzia lebbeck, Tectona grandis, Cassia fistula, Butea monosperma etc.,* Both the species of bamboo occur quite often in the same locality. Dowga bamboo or big bamboo is more predominant in moister localities, whereas Medri bamboo or small bamboo finds its place in drier localities. Sporadic flowering is often noticed within the clump. The present condition of bamboo growth is not very good due to congestion and faulty extraction. Bamboos have been hacked indiscriminately by various users. Further, up to 20% of bamboo have dried up due to congestion posing a serious threat to the resource. Fires have often occurred in these areas affecting the natural regeneration.

184. Bamboo plays an important role in the socio-economic life of the rural population and in the cottage industries of the State. Bamboo is mainly used by the Medars and other artisans for making various bamboo-based articles, by the paper industry as a raw material for paper, by the farmers and others for housing, fabrication of agricultural implements and fencing. Though there is a great demand for bamboo from distant places for supply of green bamboo such demand is usually met from only Bhadravathi and Shimoga division. There was no large-scale extraction of bamboo in the division in the past. However, there is some unrecorded removal of from the area. As per the RAMIS information total number of families of basket makers in the division are 574 of which 565 are resident families and 8 are migrants families. They need nearly 746200 Bamboo @ 25 Bamboo per family per week. Their needs have to be met on first priority. As per the inventory 2856655 numbers of green bamboos, both big and small, could be extracted on sustainable basis in the division. Accordingly the same number is prescribed for harvest and supply.

Section 2.
SPECIFIC OBJECTIVES OF MANAGEMENT.

185. The specific objectives of the working circle are:

1) To manage the bamboo forests on sound silvicultural principles to enhance the productivity thereby improving the growing stock.
2) To ensure sustained supply of bamboo to various user consistent with the principles of sustained use of forests giving priority to rural population, local artisans and to the cottage industries.

Section 3.
STATISTICS OF GROWTH AND YIELD.

186. Inventory of bamboo was carried out in a number of compartments of the division. The inventory included assessment of the number of clumps per hectare, number of green culms, number of dry culms, number of current year culms, etc., The analysed data are given in **Annexure-13.** From the analysed data, the following facts emerge:

	Small bamboo	**Big bamboo**
Average number of clumps per ha	2	33
Average number of culms per clump	14 (14.16)	16 (16.06)
Percentage of green culms	71%	78%
Percentage of dry culms	15%	10%
Percentage of current year culms	14%	12%

The analysed data is enclosed in **Annexure-13.**

Section 4.
FELLING CYCLE.

187. The minimum age at which culm is exploitable and age of full maturity of culm determine the length of felling cycle. The minimum age of exploitation is two years and the age of full maturity of a culm is about 5-6 years. Smaller felling cycle may result in over exploitation of clumps whereas longer felling cycles result in over crowding of clumps. In view of the prevailing biotic conditions, a felling cycle of four years has been prescribed from technical and administrative convenience.

Section 5.
ALLOTMENT OF AREA OF THE WORKING CIRCLE.

188. As per inventory, the total extent of bamboo bearing forest areas in the division is 40,528.00 ha. However, only areas having relatively more number of clumps capable of yielding substantial quantities of bamboo have been brought under this working circle. A total extent of 16,126.76 hectares distributed in all the ranges of the division has been allotted to the working circle. Compartment-wise details of the area are given in **Annexure – 11**. The compartments are shown in **Map-25.**

Section 6.
WORKING SERIES WORKING SCHEDULE.

189. Five working series have been prescribed:

Name of the working series	**Area (ha)**
Ambligola working series (Ambligola and Anandapuram Ranges)	**5905.32**
Hosanagara working series (Hosanagara and Nagara Ranges)	**2303.42**
Sagar working series(Sagar Range)	**1230.53**

Shikaripura working series(Shikaripura and Shiralkoppa ranges)	**3162.17**
Soraba working series (Soraba and Anavatti Ranges)	**3525.32**
Total area of the working circle.	**16126.76**

190. Allotment of areas to various working series on equi-productive basis is given below:

(1) Anandapuram working series (Anandapuram and Ambligola ranges)
Total extent – 5905.32 ha.

1a	XXII-7	247.09	**2c**	XI-34	190.20	**2b**	XIV-7	289.73	1Yr,1a,2a,3a
	XX-8	303.80		XI-36	317.88		XI-29	176.85	
	XX-9	58.46		XI-38	129.06		XI-33	244.92	
	XX-10	54.18							
		663.53			**637.14**			**711.50**	
1b	XXII-13	422.30	**2a**	XIV-3	138.55	**3c**	XI-39	140.81	IIYr,1b,2b, 3b
	XI-7	141.58		XIV-4	93.92		XI-40	238.51	
	XI-9	75.34		XIV-5	237.96		XIV-8	287.56	
	XI-10	28.23		XI-26	18.86				
				XI-27	43.27				
				XI-28	99.41				
		667.45			**631.97**			**666.88**	
1c	XI-12	222.81	**3b**	XIII-9	60.05	**3a**	XIII-10	80.64	IIIYr,1c,2c,3c
	XI-21	182.05		XIII-12	206.59		XIII-11	178.65	
	XI-28	118.12		XIII-15	8.77		XIII-17	43.23	
				XIV-9	251.14		XIII-16	133.87	
				XIV-10	133.54		XIII-18	43.44	
							XIII-19	48.34	
							XIII-3	163.40	
							XIV-11	52.21	
		522.98			**660.09**			**743.78**	

(2) Hosanagara working series (Hosanagara & Nagara Ranges)
Total extent : 2303.42 ha.

1a	XXIV-6	127.60	**2c**	XXIV-26	44.61	**2b**	XXIII-3	97.92	1Yr,1a,2a,3a
	XXIII-1	158.40		XXIV-35	112.17		XXIII-6	132.05	
		286.00			**156.78**			**229.97**	
1b	XXIV-10	295.24	**2a**	XXVII-3	424.27	**3c**	XXIV-23	93.75	IIYr,1b,2b,3b
							XXIII-14	196.42	
		295.24			**424.27**			**290.17**	
1c	XXIII-33	140.53	**3b**	XXIII-7	120.98	**3a**	XXIV-18	24.28	IIIYr,1c,2c,3c
				XXIV-29	102.99		XXIV-24	124.87	
							XXIII-24	49.03	
							XXIV-21	58.31	
		140.53			**223.97**			**256.49**	

(3) Sagara working series (Sagara Range)
Total extent : 1230.53 ha

1a	VI-1	64.30	**2c**	XIII-3	130.83	**2b**	XV-6(p)	150.00	1Yr,1a,2a,3a
	XII-9	75.00							
		139.30			**130.83**			**150.00**	
1b	XIII-2(p)	139.00	**2a**	XII-2(p)	140.94	**3c**	XII-3(p)	130.00	IIYr,1b,2b,3b
		139.00			**140.94**			**130.00**	
1c	XX-2(p)	139.00	**3b**	XV-6(p)	150.00	**3a**	XV-5	66.74	IIIYr,1c,2c,3c
							XV-6(p)	44.72	
		139.00			**150.00**			**111.46**	

(4) Soraba working series (Sorab & Anavatti Range)
Total extent : 3525.32 ha.

1a	VI-5	78.29	**2c**	I-4	220.26	**2b**	II-9	297.12	1Yr,1a,2a,3a
	X-7	88.55		I-8	278.13		XV-5	93.41	
	I-2	86.13							
		252.97			**498.39**			**390.53**	
1b	I-11	195.54	**2a**	XII-2	100.00	**3c**	II-17	280.34	IIYr,1b,2b,3b
	I-12	251.93		I-9	170.67				
				I-10	170.75				
		447.47			**441.42**			**280.34**	
1c	I-13	188.44	**3b**	I-7	321.34	**3a**	I-17	77.82	IIIYr,1c,2c,3c
	I-16	191.27		I-3	160.48		I-1	78.69	
							III-7	196.16	
		379.71			**481.82**			**352.67**	

(5) Shikaripura working series (Shikaripura & Shiralkoppa Range)
Total extent : 3162.17 ha

1a	IX-1	304.42	**2c**	IX-13	287.65	**2b**	IX-5	254.56	1Yr,1a,2a,3a
	VII-10	82.50					VII-17	53.96	
		386.92			**287.65**			**308.52**	
1b	IX-4	546.94	**2a**	IX-2	364.09	**3c**	IX-19	117.10	IIYr,1b,2b,3b
							IX-20	102.03	
		546.94			**364.09**			**219.13**	
1c	X-13	264.92	**3b**	IX-6	364.42	**3a**	IX-3	370.25	IIIYr,1c,2c,3c
	VII-16	49.33							
		314.25			**364.42**			**370.25**	

191. While delineating the coupes efforts are made to make these as equi-productive as possible. During the inventory work in the division, it was observed that most of the clumps are over crowded and a large number of culms are damaged. It is proposed to first remove all these damaged, dry and decayed culms from the clumps. After the removal of these culms if the number of green healthy culms is more than twelve in the clump, further working will be done with the condition that all the culms up to 2 years in age must be retained. A minimum of 12 culms is to be retained in each clump.

192. While executing felling of bamboo, strict supervision has to be ensured so that there is no deviation from the proposed treatment either in respect of felling cycle or in respect of the method of felling.

Section 7.
FELLING RULES.

193. The following felling rules are prescribed:

1. The oldest deteriorating culms, which cannot last for another felling cycle, should be felled first. Young and healthy culms are to be retained. This will help in better support to younger culms and also for better production of culms.

2. Culms should be cut on thinning principles. The retained culms should be distributed uniformly over the entire clump in such a way that young shoots get enough of support and the clump is kept open and workable.

3. Immature culms should not be felled. Cutting in the periphery is to be completely avoided as it checks the centrifugal development of the clumps which is characteristic of bamboo.

4. Clumps should be cut at a height of 6" to 8" from the ground level. Cutting higher than this should be totally avoided as it makes future working difficult and causes congestion. Cut should be clear and slanting and just above the node to prevent collection of rainwater.

5. In the unworked clumps, felling should start from center and proceed outwards in a circular fashion. During felling attention should be paid to remove congestion. All the malformed, dead, diseased or otherwise useless clums should be removed on priority.

6. Wherever the culms are highly congested, cutting should start in a horse shoe fashion leaving the peripheral growth in tact. Least disturbance is caused on the sides by this method.

7. Culms and clumps in flowers should be cut only after the seeds fall.

8. In hilly areas cutting in clumps should be done from downhill side.

9. In each clump there should not be less than 12 culms after felling and in case the number of culms in a clump is less than 12, felling should not be done in such clump.

10. Only bamboos that are more than two years old should be cut.

11. The period of exploitation should be between 15th October to end of February.

Section 8.
REGENERATION.

194. Natural regeneration of bamboo in the area covered under the plan is found to be poor due to biotic pressure such as heavy grazing and recurring fires. Rigid protection from fire and grazing will induce suppressed rhizomes to give out shoots. This will also help in establishment of natural regeneration of seeds available form sporadic flowering or gregarious flowering as and when these occur. No artificial planting of bamboo has been prescribed under this working circle. Planting of the species in suitable areas is recommended in other working circles where planting of indigenous species has been prescribed.

CHAPTER XII.

AFFORESTATION AND PLANTATION MANAGEMENT WORKING CIRCLE.

Section 1.
GENERAL CONSTITUTION OF THE WORKING CIRCLE.

195. This working circle covers all the plantation areas of the division managed by the Forest department. The areas released to other organisations for raising and managing plantations are not included. In addition, certain degraded forest areas have also been included in the working circle for raising plantations for the production of small timber and fuel wood. The activities proposed to be carried out in the working circle can be classified into the following categories:

(1) Afforestation for production of small timber and fuel wood. This also includes management of *Acacia auriculiformis* plantations.

(2) Management of Teak plantations.

(3) Management of Eucalyptus plantations.

(4) Management of Casurina plantations.

(5) Management of Miscellaneous plantations.

(6) Management of Cashew plantations.

(7) Afforestation of encroached area.

(8) Afforestation of areas notified under Section 4 of the Karnataka Forest Act, 1963.

Section 2.
AFFORESTATION FOR PRODUCTION OF SMALL TIMBER AND FUEL WOOD.

General constitution.

196. The area proposed to be tackled under this activity include 7340.31 hectares of degraded forest areas situated beyond 5 kilometers from habitations, 4054.98 hectares of degraded forests situated within 5 kilometers from habitations, 894.92 hectares of grassy blanks, 727.00 hectares of *Acacia auriculiformis* plantations raised on forest lands and 2897.26 hectares of *Acacia auriculiformis* plantations raised on non-forest lands. Degraded forest areas situated beyond 5 kilometers from habitations and those situated within 5 kilometers from habitations have been separately indicated as the latter category of forest lands may be tackled under the Joint Forest Planning and Management (JFPM) if the adjoining village communities show their willingness. Thus, the total area proposed under this activity is 15914.47 hectares. The details of areas are given in **Annexure – 8**. Compartments are shown in **Map-23** and **Map-25.**

Objectives of management.

197. The main objectives are as follows:

1. To produce small timber and fuel wood for the consumption of local community.
2. To afforest degraded forest area and grassy blanks.
3. To give importance to indigenous species in addition to multi-purpose species such as *Acacia auriculiformis* in the afforestation program.
4. To regenerate plantation areas after clear felling at the end of rotation period to reduce pressure on natural forests.
5. To increase green cover for maintaining ecological balance.
6. To check soil erosion.
7. To enhance water-holding capacity of the soil.

Prescriptions:

198. The following prescriptions should be adhered to:

(1) Analysis of *A. auriculiformis* plantations raised by the Mysore Paper Mills limited, Bhadravathi has shown that the mean annual increment (MAI) and current annual increment (CAI) merge slightly beyond 8 years. Based on this, a rotation period of 8 years has been fixed for harvesting the *Acacia auriculiformis* plantations to get the maximum yield. The plantations should therefore be harvested by clear felling on attaining the rotation age of 8 years. All native species growing in the area should be retained.

(2) However, in respect of Sagar, Hosnagara and Nagara ranges, only 50 % of the crop should be removed at the rotation age. Remaining 50% should be allowed to grow for a period of 25 years to obtain some quantities of small timber. The plantations of these ranges are generally found to continue to put on appreciable increment after the rotation period as compared to the plantations of other ranges in the division.

(3) As regards planting, the clear felled plantations have to be necessarily planted up during the next planting season. Felling of these plantations should therefore be started only after ensuring that adequate budgetary provision is available for taking up replanting. Otherwise, felling may be postponed

(4) Next priority for planting should be given to the grassy blanks.

(5) Third priority for planting should be given for the remaining degraded areas in the working circle.

(6) Site preparation for planting should be done by adopting suitable methods in order to conserve soil and moisture and to prevent erosion of soil.

(7) An extent of 7247.52 ha is proposed to be planted up during the Plan period. Thining of 50 % trees is proposed to be carried out in an extent of 2412.00 ha. An extent of 20.00 ha of Acacia auriculiformis plantation falling in Sharavathi wildlife sanctuary is not prescribed for either thinning or clear felling. The treatment schedule is as shown below:

Abstract of Plantations

Sl. No	Range	Extent of Plantations in Forest Lands in ha.	Total Fire wood Available In M3	Extent of Plantations in Non Forest Lands in ha.	Total Fire wood Available In m3	Degraded Area proposed for Treatment	Total Extent of Plantations	Total area of Grassy Blanks proposed for Treatment	Total Area proposed For Treatment
1	Ambligola	8.00	412	43.66	307	965.81	51.66	00	987.47
2	Anandapuram	28.00	1010	00	00	654.87	28.00	00	682.87
3	Anavatti	46.00	3512	00	00	478.87	46.00	00	524.87
4	Hosanagara	98.00**	3975.5	404.72**	9364	739.84	502.72	155.29	1397.85
5	Kargal	20.00*	1988	629.98	18555	00.00	649.98	142.80	792.78
6	Nagara	20.00**	404.5	777.4**	4921	00.00	797.40	00	797.40
7	Sagar	132.00**	2243	819.5**	19485.5	152.04	951.50	00	1103.54
8	Shikaripura	46.00	210	20.00	46	2785.18	66.00	00	2851.18
9	Shiralkoppa	184.00	6025	00	00	1240.60	184.00	00	1424.60
10	Soraba	145.00	7703	202.00	12376	323.10	347.00	596.83	1266.93
	Total	**727.00**	**27483**	**2897.26**	**75054.5**	**7340.31**	**3624.26**	**894.92**	**11829.49**

*** Plantation is in Wildlife sanctuary area. Hence not considered for extraction.**
**** Area proposed for thinning by 50 %.**

Extraction of Plantation year wise

Sl. No	Range	Extent of plantations in ha									
		00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10
1	Ambligola F	8	0								
	NFL	27.20	16.46								
	Anandapuram	10	10	8							
	NFL	0	0	0							
3	Anavatti F	10.0	14.0	11	11						
	NFL										
4	Hosanagar F **	18.0	15.0	15.0	25.0	15.0	10.0				
	NFL	20	13.32	21	12	59	50	56	53	30	90.40
5	Kargal F	0	0	0	0	0	0	0	0	0	0
	NFL	43.35	55.80	88.00	60.00	84.25	72.58	82.00	54.00	45.00	45.00
6	Nagara F **	20	0	0	0	0	0	0	0	0	0
	NFL	30	80.00	93	91	95.00	80.50	78.50	107	69.40	53.00
7	Sagar F **	20	20	34	30	28	0	0	0	0	0
	NFL	70	85.50	88.00	61.50	61	65.50	66	92.50	92.50	137
8	Shikaripura	8	20	0	0	0	0	18.00	0	0	0
	NFL	10	10	0	0	0	0	0	0	0	0
9	Shiralkoppa	29	30	40	28	20	37	0	0	0	0
	NFL	0	0	0	0	0	0	0	0	0	0
10	Soraba F	18	25	40	18	17	27	0	0	0	0
	NFL	14	14	35	14	20	25	15	35	10	20
	Total	**300.35**	**368.62**	**454**	**339.5**	**399.25**	**367.58**	**315.5**	**341.5**	**246.9**	**345.4**

F-Forest Land,
NFL-Non Forest Land.

Treatment Schedule

Sl. No	Treatment	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	Total
1	Grassy Blanks	200	200	200	200	94.92						**894.92**
2	Degraded areas	500	500	500	500	500	500	500	500	500	500	**5000.00**
3	Plantation area for Re-Forest.	177.55	195.26	222	131	141.25	161.58	115	89	55	65	**1352.64**
		877.55	**895.26**	**922**	**831**	**736.17**	**661.58**	**615**	**589**	**555**	**565**	**7247.56**

199. The degraded forest areas not covered under the above treatment schedule will be provided rigid protection during the present Plan period and will be considered for afforestation during the next plan period. As regards degraded forest areas that may be tackled under JFPM (4054.98 ha.) afforestation works should be taken up in accordance with the willingness of the adjoining village communities.

200. As per the published report, the mean annual height and the mean annual girth increment of *Acacia auriculiformis*, ranges from 1.57m to 1.98m and 1.40cm to 1.55cm respectively depending on the site qualities. Analysis of *Acacia auriculiformis* plantations raised by Mysore Paper Mills (MPM) limited has shown that the MAI and CAI merge slightly beyond 8 years and MAI of 16m^3 /ha is reported from the MPM plantations. Based on this, the rotation period for harvesting *Acacia auriculiformis* plantations in the division has been fixed at 8 years to get maximum yield. From the analysis of the inventory figures, it is observed that 727.00 ha of forest plantations and 2897.26 ha of non-forest plantations (Total 3624.26 ha) are estimated to give approximate 77951.76 m^3 or 27740.85 metric tons of fire wood per annum in the plan period. Fellings have been prescribed keeping in view the rotation age. Since most of the *Acacia auriculiformis* plantations are over mature, they are prescribed for extraction in the earlier years of the plan period. However, extraction may be carried out keeping in view the maturity of the plantations and budgetary provision of the division in addition to the local demand as per the indication given in the above table. Thereafter, rest of the plantations are prescribed for felling as per rotation. Details of plantations and their analysis are given in **Annexure-14**. General observation is that there is heavy biotic interference in these areas, which would pose serious problems if there were any inordinate delays in felling either due to managerial problems or financial constraints. If the production of firewood is more than the demand, in such cases felling may be deferred by one or two years by providing rigid protection to the plantations. According to 1991 census, the total population of all the 934 villages in the division is 3,25,096. As per the study by Joshi et.al, the per capita consumption of fuel wood for cooking and bathing is 0.94 kg/day. Considering this, the total requirement of the firewood or the demand is to the tune of 1,11,540 metric tons. As per the analysis of RAMIS data for all the 10 ranges of the division, the total population is 507618. For this, the requirement is to the extent of 1,74,164 metric tons. However, the availability from the forests is only 27,740.85 metric tons per annum. In addition to this, firewood from harvest of MPM plantations would also be available at 12.50% of their production. The shortfall has to be met from agricultural and horticultural wastes. Further action should be taken to motivate people to go in for fuel saving devices. Though these have been installed, their number is not sufficient. As per the RAMIS data, the total number of fuel saving devices is 9233-Bio-gas plants, 5328-Smokeless chulas, and 43 Solar Cookers.

Section 3.
MANAGEMENT OF TEAK PLANTATIONS.

201. The division has 7315.60 ha of Teak plantations raised in forest areas of different ranges. These are with site quality III and IV. In addition, 402.53 ha Teak plantations are found in the non-forest lands. In all, 7718.13 ha Teak plantations have to be managed for their maximum production. Though some thinning were carried out in the past, these were not systematic and depended mainly on the availability of funds. Keeping in view the irregular working of plantations, thinning has been proposed to bring the plantations to normal productive level by adopting Laurey's thinning formula for Teak plantation.

Formula : S = (D+3) x 1.5
Where **S** = espacement of trees after thinning in feet
D = diameter of mean dominant trees in the existing crop in inches.

202. **Objects of management.**

1. To convert the existing teak plantations into valuable growing stock by following proper thinning schedule.
2. Enrich plantations with concentrated artificial regeneration with Teak, if the plantations are damaged due to biotic factors.
3. To meet the Teak pole requirement of the local and the distant stakeholders.
4. To convert the plantations to mixed nature, if these have failed on account of locality factors.
5. To remove Eucalyptus coppice growth to convert areas into pure Teak stands.

203. Earlier, Bourne's yield table was adopted for prescribing thinning in Sagar division. Since thinning was not carried out timely thereby creating irregularity in the plantations, Laurey's formula is prescribed for thinning in this Plan. The number of stems to be retained in each thinning as per Bourne's yield table is as follows:

Table showing age of the crop and the stems to be retained in each thinning:

Sl No	Age of the crop in years	Standard stems as per Bourne's yield table		Number of stems to be retained	
		Per acre	Per Hectare	Acre	Hectare
1	8	760	1878	506	1250
2	14	530	1310	253	625
3	23	225	556	160	395
4	32	160	395	130	321
5	40	130	321	108	267
6	48	108	267	80	198

Table showing age of crop and the number of stems to be retained as per All India yield table:

Number of stems per acre.

Age (Years)	Site quality I	Site quality II	Site quality III
5*	841	960	1108
10*	450	772	882
15*	332	594	704
20	248	400	582
25*	193	286	443
30	156	217	353
35	130	174	293
40*	112	145	252
45	98	126	223
50	88	111	202
55	79	99	185
60	71	89	171
65	64	81	159
70	58	73	147
75	53	65	136
80	48	59	125
90	44	55	117
100	40	52	110

* denotes the years in which thinning are suggested.

Prescriptions (Method of executing fellings) as per Bourne's yield table.

(a) **First mechanical thinning**.

204. This thinning is mechanical in nature. At the 8th year, stems in the alternate diagonal lines have to be removed (50% will removed)

(b) **Second mechanical thinning.**

205. At 14th year, stems in the alternate lines should be removed. Here also once again 50% of the stems will be removed.

(c) **The third thinning**
(First silvicultural thinning).

206. At the 23rd year, while marking for thinning sound and promising trees at the rate of 395/ha to be retained by marking the rest for felling. The resultant average espacement will be 5.03 m (16 ft). Valuable species such as Mathi, Nandi, Beete Honne and other important species to be retained for obtaining mixed nature in the final crop.

(d) **Fourth thinning**
(Second silvicultural thinning).

207. At the 32nd year second silvicultural thinning is done on the same line as above by retaining 321 trees/ ha. Sound and long clear-boled trees, which are promising, are retained and other trees are marked for felling. The selection for felling is from pre-dominants and co-dominants. The spacement after this felling will be 5.58 m (18 ft).

(e) **Fifth thinning**
(Third Silviculture thinning).

208. At 40th year 267 trees per ha are selected (best-ones) and are retained. Rest is removed. The resultant spacement will be 6.12 m.

(f) **Sixth thinning**
(Fourth or the final silvicultural thinning)

209. It is an ultimate thinning. At 48th year 198 trees / ha, which are sound healthy and vigorously growing, are selected and retained. The remaining 69 to be removed. The resultant spacement will be 7.10 m (23ft)

210. In general it is to be remembered that thinning to be carried out before any competition between the individual trees sets in and as per the schedule. In case of any financial constraints for carrying out thinning, it shall not be deferred for more than 2 years in any case.

211. As soon as thinning is carried out the same shall be entered in the plantation register along with number of poles removed, year and month of extraction, cost incurred etc.

212. The number of trees to be retained as suggested above after each category of thinning is only indicative as the plantations were not thinned earlier when these were due and proper records of thinning carried out earlier are not available. The number of trees to be retained for each plantation should be determined by using Laurie's formula.

213. **Marking for thinning:**

1. Trained Range Forest Officer should do marking for thinning.

2. Assistant Conservator of Forest will inspect 50% of the trees marked and effect necessary changes if any.

3. Deputy Conservator of Forests will check 10% and approve the list of thinning.

4. Marking for thinning will be carried out from October – December (when the crown is still green).

5. In case of poor growth in some plantations due to adverse locality factors, thinning may be delayed by 2 years and it will not amount to any deviation. However, if there is good growth

in some plantation due to good locality factors it need not be advanced but has to be carried out as per the schedule.

6. At the time of thinning, boundary of the plantations to the extent of 3 m will be cleared al-round the plantation to maintain its identity.

7. If the plantation area is highly infested with *Eupatorium*, clearing of undergrowth is to be done and it should be allowed only after due inspection by the Deputy Conservator of Forests,

8. Saws only will be used for felling the trees. But-ends will be cut with saw to chisel the numbers, which would fetch better rates.

214. **Grading of Teak Poles:**

Length	But end Girth	Class *
Over 6 m	Over 60 cm	I a over (special class)
Over 6 m	Over 40 – 60 cm	I a
Over 6 m	20 – 40 cm	I b
4m – 6m	40 – 60 cm	II a
4m – 6 m	20 – 40	II b
2m – 4m	40 – 60 cm	III a
2m – 4m	20 – 40	III b

* Roman number stands for length class and Alphabet stands for girth class.

Subsidiary operations:

215. Lops and tops to be left in the forest to increase the nutritive value of the soil by humus formation.

Climber cutting.

216. This operation should be combined with thinning. In addition to climber cutting *Loranthus*, a parasite, which is more common is to be removed.

Tending.

217. Clipping of side shoots and epicormic branches should be done wherever required. Weed growth competing with the main crop should be removed when required.

Closure for grazing.

218. Plantations should be closed for grazing at least for a period of 4 – 5 years.

Fire Protection.

219. Plantations have to be well protected against fires. Control burning in the plantation may be done and fire lines in the periphery have to be cleared well in advance by the end of January each year.

220. Fallen leaves as for as possible have to be swept and forest floor has to be kept clean till the rains set in.

Plantation Boards.

221. Plantation boards (stone slabs or cement boards) indicating the year of plantation, area of regeneration, extent, number of Blocks and Compartments etc should be erected and maintained.

Controls.

222. The following records should be maintained:

1. Control Books.
2. Record of works and
3. Plantation Journals.

Control Books.

223. Felling prescriptions of the plan, the works carried out and yield obtained will be recorded, which should be in Form 3 and 4 of Karnataka Forest Code vide **Annexure – 9 & 10**.

Record of Works.

224. This will be a record of all operations carried out in accordance with the Working Plan prescriptions for the management of the forests, which is in Form 5 of Karnataka Forest Code.

Plantation Journals.

225. It is a permanent record to reveal the history of a plantation giving description of each plantation, year of formation, yield from thinning, revenue realised etc.

Regeneration.

226. Pre-sprouted teak seedlings in 5 x 8 size polythene bagged seedlings have to be planted at an espacement of 2 m x 2 m in open areas and failed plantations ideal for teak. Details of teak plantations in forest and non-forest lands and the analysed data, number of stems to be removed along with the year of removal is given in the **Annexure–15.** The abstract is as follows.

Year-wise abstract showing the number of poles to be thinned from the plantation of Sagar division.

(Forest Area)

Year	Ambligola	Anandapuram	Anavatti	Hosnagara	Sagar	Shiralkoppa	Soraba
2001	8491	7543	5196	7423	2624	692	1192
2002	8113	6798	5196	8640	3259	3959	1497
2003	7534	6799	4311	7145	3259	3958	1256
2004	7433	6255	4520	7453	2869	-	1168
2005	7433	6530	4316	7453	2869	-	1168
2006	7018	7184	5049	7453	3093	-	1964
2007	8260	9324	7794	7453	2836	-	952
2008	8259	7938	4064	7268	3755	-	-
2009	8245	8747	4223	7268	3755	-	-
2010	-	5642	3077	11027	3757	-	-
	70786	**72760**	**47746**	**78583**	**32076**	**8609**	**9197**

(Non Forest Area)

Year	Ambligola	Anandapuram	Anavatti	Hosnagara	Sagar	Shiralkoppa	Sorab
2001	-	-	7748	8633	-	-	-
2002	-	-	-	9067	-	-	-
	-	-	**7748**	**17700**	-	-	-

Section 4.

MANAGEMENT OF EUCALYPTUS PLANTATIONS.

227. This activity includes areas in which Eucalyptus plantations were raised in the past. The plantations have already been clear felled. The details are not available. The vegetation of the areas is changing towards a mixed crop. Total extent of the plantations as per inventory is 259.09 ha. These areas are proposed for extraction keeping in view the rotation age of 8 years as most these are over mature plantations. These plantations are spread over three ranges of the division.

228. **Objectives.**

1. To clear fell Eucalyptus plantations excluding natural growth to meet the fuel wood and small timber requirement of the local community.

2. To re-forest the clear felled area with either Eucalyptus, if it is a dry locality or Acacia, if it is a moist locality.

3. To attain normalcy of the natural growth in the plantation by giving rigid protection as is done in case of restoration through natural and assisted regeneration.

229. Prescription for marking is the same as done in other cases. There is no girth or age limit prescribed for extraction of Eucalyptus trees. Trees will be harvested from the year of approval of the plan.

Harvesting schedule.

Sl. No	Range	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009-10
1	Hosanagar	50 ha									
2	Sagar	50.46 ha	54.63 ha	32 ha	72 ha						
	Total	**100.46 ha**	**54.63 ha**	**32 ha**	**72 ha**						

Regeneration.

230. The clear felled area should be reforested with Eucalyptus, if it is a dry locality or with Acacia auriculiformis, if it is a moist locality. Miscellaneous species such as Honge, Neem, Tamarind etc could be tried in Anandapuram range. Number of seedlings to be planted and the technique of planting should be as prescribed in the Rehabilitation of degraded forests working circle. Afforestation to the extent of extraction of plantations should be carried out in the following year. Details are given as below:

Afforestation

Year	Extent
2002-2003	100.46 ha.
2003-2004	54.63 ha.
2004-2005	32.00 ha.
2005-2006	72.00 ha.

231. Total out put of the plantations is given in the following table:

Total volume of fire wood of Eucalyptus

Sl No.	Name of Range	Locality	Block	Comp	Year of plantation	Extent in ha.	Total No. of trees	Average girth (Cms)		Mean annual girth		Present volume in m3
1	**2**	**3**	**4**	**5**	**6**	**7**	**9**	**10**	**11**	**13**	**14**	**15**
	Hosanagar Range **Eucalyptus plantations :-**											
1	Hosanagar	Sharmanavathi SF	XIII	7	1965	50.00	28	25	4.80	0.75	19167	155
2	"	"	"	"	"	"	61	24	4.47	-	-	-
3	"	"	"	"	"	"	26	30	6.00	-	-	-
					TOTAL	**50.00**					**19167**	**155**
	Sagara Range											
1	Sagar	Avinahalli	XVI	3	1966	10.00	14	49	6.70	1.44	1400	**63**
2	Sagar	Ullur SF	XV	9	1968	40.46	29	58	13.48	1.28	91237	11316
							32	43	5.50	1.38	4956	138
3	Sagar	"	"	"	"	"	32	54	12.84	-	-	-

4	Sagar	"	"	"	"	"	38	52	16.45	-	-	-
							17	46	6.70	-	-	-
											96194	**11453**
5	Sagar	Yalagalale	-	-	1968	54.63	29	28	6.55	0.87	168625	2434
6	Sagar	"	"	"	"	"	27	29	6.55	-	-	-
7	Sagar	"	"	"	"	"	22	27	6.34	-	-	-
8	Sagar	Iduvani SF	XV	5	1969	12.00	26	28	6.52	-	-	-
											168625	**2434**
9	Sagar	Bilisiri SF	XV	7	1975	20.00	18	32	6.28	1.34	3800	66
							16	43	5.28	1.71	3200	86
10	Sagar	"	"	"	"	"	20	35	7.52	-	-	-
											7000	**152**
11	Sagar	Iduvani SF	XV	5	1976	72.00	18	59	5.83	1.77	15480	883
12	Sagar	"	"	"	"	"	25	26	6.84	-	-	-
											15480	**883**
					Total	**209.09**					**288698**	**14985**
					Grand total	**259.09**					**335480**	**18596**

Section 5.
Management of Casurina Plantations.

232. Casurina plantations covering an area of 152 ha raised on non-forest lands are to be managed. Inventory of these plantations was carried out at one percent sampling intensity to analyse the yield and the results are appended below:

Yield from Casurina plantations (in m^3)

Sl. No	Range	Name of the plantation	Year	Extent in Ha	Yield in M^3
1	Nagara	Karimane	1977	62.00	332
2	Nagara	Gowrikere	1982	5.00	169
3	Nagara	Malali	1984	16	558
4	Nagara	Gowrikere	1989	19	1095
5	Nagara	Sulagodu	1990	28	333
6		Karimane	1994	22	338
				152	**2825**

233. Harvesting of the plantations should be carried out as per the following schedule:

Harvesting schedule

Sl No	Range	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-2011
1	Nagara	31 ha	31 ha	21 ha	19 ha	28 ha	22 ha				

234. Native species growing in the plantations should be retained at the time of harvest. Replanting to the extent of plantations harvested should be carried out with Acacia auriculiformis or other species suitable to the locality. Details of replanting should be as per the schedule given below:

2002-2003 31ha.
2003-2004 31ha.
2004-2005 21 ha.
2005-2006 19 ha.
2006-2007 28 ha.
2007-2008 22 ha.

Section 6.
MANAGEMENT OF MISCELLANEOUS PLANTATIONS.

235. As per inventory, there are 81.67 hectares of miscellaneous plantations in the division. These had been raised on non-forest lands. Of these, 40.46 hectares are in Ambligola range and 41.21 hectares are in Sagar range. Most of the plantations have failed and the stocking is poor. It is proposed to convert these plantations to mixed forest by taking up enrichment planting during 2002-03 with indigenous species @ 400 plants per ha and by giving rigid protection. Details of the plantations are given hereunder:

Miscellaneous plantations (on non-forest land)

Sl. No.	Name of the range	Locality	Year of plantation	Extent	Yield in m3.	Remarks
1	2	3	4	5	6	7
1	Ambligola	Belandur	1964	40.46	648	Failure plantaion, Misc.plantaitons such as mathi, Hunal, Beete etc.,
			TOTAL	**40.46**	**648.00**	
2	Sagar	Kalkoppa	1950	1.21	60	Softwood species like Buruga along with other Misc. species.
3	"	Bilisiri	1976	20.00		Failure plantaion Cassia siamia & other Misc. species.
4	"	Padavagadu	1991	10.00	68	Misc. species such as Hunal, Neral etc.,
5	"	Malve	1997	10.00	45	Misc. species such as Thare, Hunal, Bamboo, Neral etc.,
			TOTAL	**41.21**	**173.00**	
			G.TOTAL	**81.67**	**821.00**	

Section 7.
MANAGEMENT OF CASHEW PLANTATIONS.

236. Cashew plantations covering an extent of 172 ha have been raised in the division in the sixties. These plantations are yielding variably. Not much effort is being made to improve the productivity of these plantations. Fruits of these plantations are auctioned along with other minor forest produces of the division. It is advisable to hand over these plantations to the Karnataka Cashew Development Corporation (KCDC) limited for better management. The details of plantations are given in the following table.

Sl.No	Name of the Range	Locality	Year of plantation.	Extent	Remarks
1	Hosanagar	Haniya	1964	12.00	Fully stocked
2	"	Haniya	1967	80.00	"
3	"	Kargadi	1968	40.00	"
4	"	Haniya	1969	40.00	"
			Total	**172.00**	

Section 8.
AFFORESTATION IN ENCROACHED LANDS.

237. As per analysis of satellite data and ground truth verification, the extent of forest area under encroachment in Sagar division is 18,213.23 ha. This constitutes 12.32 % of the forest area of the division. Maximum encroachment is in Ambligola range (2,999.50 ha) followed by Shiralkoppa range (2,897.35 ha). The least encroachment is in Kargal range (214.27 ha). Compartment-wise details of encroachment are given in **Annexure -8**. Immediate action should be taken to detect and book these cases as per law. It is also likely that some of these encroachments are because forest lands being granted by Revenue department to landless people. These need to be verified at the time of enquiry into these cases for initiating eviction proceedings

238. As far as the encroachments are concerned the present policy is to evict all the encroachments that have taken place after 27.4.19978. Therefore, these encroachments have to be evicted as per law after following due procedure.

239. As these encroached areas are close to human habitations, it is prescribed that these areas after their retrieval should be planted up during the plan period with fuel wood and small timber yielding species. It is advisable to plant these with fast growing species like *Acacia auriculiformis.* In this way, the areas can be covered up easily and within a relatively shorter period. Therefore, these areas have been allotted to the Plantation and afforestation working circle. No time schedule has been prescribed for taking up afforestation in these areas. These have to be planted up as soon as the encroachments are evicted.

Section 9.
AFFORESTATION OF AREAS NOTIFIED UNDER SECTION 4 OF THE KARNATAKA FOREST ACT, 1963.

240. An extent of 27,151.39 ha comprising of 16.449.63 ha in Hosanagara taluk, 6,494.84 ha in Sagar taluk, 470.68 ha in Shikaripura taluk, 3,456.41 ha in Soraba taluk and 279.83 ha in Shimoga taluk has been notified under Section 4 and notifications under Section- 17 are awaited. The details have been given in **Annexure-21**. At this stage, detailed prescriptions for development of these areas cannot be given. Hence, these areas are provisionally included in the Afforestation and plantation management working circle. As and when these areas are finally notified under Section 17 of the Karnataka Forest Act, 1963, these areas will be developed by taking up plantations of suitable fuel wood and small timber species in accordance with the prescriptions given in Section 2 of this chapter for Afforestation for production of small timber and fuel wood.

CHAPTER XIII.

SANDALWOOD OVERLAPPING WORKING CIRCLE.

Section 1.
GENERAL CONSTITUTION OF THE WORKING CIRCLE.

241. This overlapping working circle comprises both forest and non-forest areas in the division and also includes all the tree growth in other lands over which the Forest department exercises control. Sagar division was once known for abundance of sandalwood trees. Its dry deciduous forests are ideal habitat for the species. However, the occurrence of sandal in various areas of the division has come down sharply in the recent years. All the mature trees have been extracted in the past and the remaining mature ones are lost because of illicit smuggling, which is quite rampant in the division. The efforts made by the department to control smuggling have had partial success.

242. There are now no concentrated patches of sandal trees in the division but are scattered very widely. Because of their scattered distribution, the trees are exposed to illicit cutting and removal. The number of sandal offences booked and value of material seized during the period 1989-90 to 1998-99 are as follows:

Sandalwood offences booked and value realised.
(1988-89 to 1998-99)

Year	No of cases	Sandal seized in m.tons	Amount realized in lakhs
88 - 89	123	25.155	19.611
89 - 90	160	19.927	15.396
90 - 91	129	18.248	17.857
91- 92	232	8.115	8.015
92 - 93	136	6.585	7.532
93 – 94	138	67.915	63.699
94 – 95	167	23.579	22.053
95 – 96	119	4.531	4.531
96 – 97	104	5.876	5.877
97 – 98	54	8.566	65.550
98 - 99	39	5.125	5.125
Total	**1401**	**193.622**	**235.246**

Section 2.
SPECIFIC OBJECTS OF MANAGEMENT.

243. Specific objects of management of the working circle are as follows:

1. To improve the growing stock of sandal in the forest areas by carrying out tending and other cultural operations.

2. To provide strict protection to sandal bearing forest areas from fire, grazing, theft etc.

3. To restock natural regeneration by supplementing with artificial regeneration.

4. To encourage the farmers and other private individuals to grow sandalwood in private lands by providing quality seeds and technical support.

Section 3.
PRESENT STATUS.

244. As per inventory, the distribution of sandalwood trees in the division in different diameter classes is found to be as indicated below:

Number of trees in Diameter class in cms.

Sl. No	Range	5	10	20	30	40	50	60	70	80	90	Total
1	Ambligola	371	0	0	0	0	0	0	0	0	0	371
2	Shikaripura	8030	886	443	0	0	0	0	0	0	0	9359
3	Shiralkoppa	-	-	-	-	-	-	-	-	-	-	-
4	Nagara	-	-	-	-	-	-	-	-	-	-	-
5	Sagara	82	0	0	0	0	0	0	0	0	0	82
6	Soraba	115	-	-	-	-	-	-	-	-	-	115
7	Anavatti	3	0	3	0	0	0	0	0	0	0	6
8	Karagal	1635	825	1152	275	0	275	550	0	0	0	4712
9	Anandapura	-	-	-	-	-	-	-	-	-	-	-
10	Hosanagar	661	0	0	0	0	0	0	0	0	0	661
		10897	**1711**	**1598**	**275**	**0**	**275**	**550**	**0**	**0**	**0**	**15306**

245. The occurrence of sandalwood, once abundant in these areas, has come down sharply mainly because of increased smuggling activities. Other factors that contributed to its depletion are uncontrolled browsing, repeated fires, lopping for fodder, diseases and pests etc. Whatever regeneration is found at some places it is due to a few young mother trees in the area. It is difficult to find trees more than 20cms girth in the forests due to rampant smuggling, Even younger trees are not spared. Therefore, there is no possibility of getting any mature tree for extraction. Only dead trees, stumps and roots of illicitly felled trees are permitted to be extracted.

Section 4.
SALVAGING CYCLE.

246. Felling cycle of one year is being adopted keeping in mind the poor availability of sandalwood. Going over each area every year will reduce the probability of theft of all such material. Annual working area in the particular felling series is taken as Range. While working in the annual area, all types of lands are to be covered for removal of dead trees and left over stumps and roots of the illicitly felled trees.

Section 5.
SALVAGING SERIES.

247. Each Range has been taken as a felling series to be covered every year so that available material may be removed promptly as and when it is found. The details of the salvaging series are given in the following table:

Sl No	Name of the Salvaging series	Annual working area	Years in which to be taken up
1	Ambligola SS	All the areas falling under the jurisdiction of Ambligola range.	Each Year
2	Shikaripura SS	All the areas falling under the jurisdiction of Shikaripura range.	Each Year
3	Shiralkoppa SS	All the areas falling under the jurisdiction of Shiralkoppa range.	Each Year
4	Nagara SS	All the areas falling under the jurisdiction of Nagara range.	Each Year
5	Sagara SS	All the areas falling under the jurisdiction of Sagara range.	Each Year
6	Soraba SS	All the areas falling under the jurisdiction of Soraba range.	Each Year
7	Anavatti SS	All the areas falling under the jurisdiction of Anavatti range.	Each Year
8	Kargal SS	All the areas falling under the jurisdiction of Kargal range.	Each Year
9	Anandapura SS	All the areas falling under the jurisdiction of Anandapura range.	Each Year
10	Hosanagara SS	All the areas falling under the jurisdiction of Hosanagara range.	Each Year

Section 6.
EXTRACTION AND TRANSPORTATION.

248. No yield has been prescribed for extraction. All available material in the specified categories may be collected.

249. Regulation of working will be entirely by area. One annual working area will be worked every year irrespective of yield.

250. Following rules will be complied for marking, extraction and conversion:

1. Marking. extraction and conversion will be executed departmentally as per the codal provisions and other orders issued from time to time.

2. Range Forest Officer should attend to marking and the Assistant Conservator of Forests should inspect at least 50% of the marking. Marking and inspection work should be completed by the end of May. Extraction of sandalwood should be completed by the end of October when the soil is loose and there is no difficulty in uprooting the stumps or roots.

3. Separate register for each felling series should be maintained.

251. After uprooting of the dead trees/stumps etc. a peg should be fixed at or near the place of uprootal. Range Forest Officer should submit monthly report of the progress of work. The work should be inspected frequently by the Deputy Conservator of Forests /Assistant Conservator of Forests to ensure proper extraction. No part of tree/stump/roots etc. should be left in the ground. Saw should be used for pruning the branches.

252. When any part is sawn off from the tree/stump, the number of tree/stump and the number of the piece should be noted on it. If the piece is long it may be converted into billets of one meter or multiple of it. All the material so prepared should be transported to Range Forest Office with proper permit and under escort. When sufficient material gets collected at the Range Forest Office it should be further transported to Sandalwood depot with proper permit and under escort after obtaining the permission of the Deputy Conservator of Forests. The account of all the material received at Range Forest Office and thereafter transported to Sandalwood depot should be submitted regularly by the Range Forest Officer to the Deputy Conservator of Forests.

253. Transportation of sandalwood should be done only during the daytime duly ensuring that the consignment reaches the depot well in time before its closure. The officer in-charge of the depot should weigh and acknowledge the receipt of Sandalwood promptly after due verification.

254. These are the general rules to be followed for marking, extraction and transportation of sandalwood from any type of land. But in case of private land, while extracting the material, a mahazar should be drawn in the presence of the owner and. in the depot the material should be kept separately. After proper verification of the records/ownership etc. further action regarding the payment of bonus should be taken as per the existing Government orders.

Section 7.
PROTECTION

255. By and large, sandal regeneration is unsatisfactory in the forest areas. Situation is worse in non-forest government lands where it used to flourish luxuriantly. In the private lands also, its stock is depleted. The depletion of sandalwood is primarily on account of rampant smuggling. Therefore the first step to restock all these areas with Sandalwood is to ensure effective protection to the species from smugglers. This can be achieved only by enlisting strong public support and by enforcing various rules and regulations strictly. Criminal cases against the smugglers should be persued vigorously in the Courts so that these result in conviction.

Section 8.
TENDING.

256. Natural regeneration of sandalwood can now be seen only at places where there are some young mother trees. Many of these young seedlings are found suppressed because of overhead shade or due to the presence of weeds and climbers. Therefore it is proposed to carryout the following tending operations, taking one Section every year in each range:

1. Making sandal seedlings free from climbers.

2. Judicious pruning of over head trees causing shade to ensure proper light to sandal seedlings.

3. Removing the obnoxious weeds hindering the growth of seedlings.

257. In this way tending operation should be attended between November to March in all the Sections in the successive years.

Section 9.
GROWING CONDITIONS AND REGENERATION.

258. Sandalwood tree is a semi root parasite. It can parasitize over 300 species from grass to another sandal plant. Under gregarious growing conditions, self-parasitism is common. Sandalwood establishes haustorial connections with the host plants and depends on them for its requirement of nitrogen, phosphorus and potassium. It can obtain other nutrients on its own. Seedlings are found to survive without a host for 3 years but thereafter they tend to die. In a natural population 2 percent of seedlings do not produce haustoria and they fail to survive on their own beyond three years of age.

259. Sandal is primarily a tree of dry deciduous forests. It is prone to fire damage. It generally avoids hill slopes and grassy blanks that are prone to annual fires: however, when these areas are protected from fire, sandalwood appears again. Similarly under moist deciduous conditions when a site becomes more moist, sandalwood recedes to drier portions. Its main associates in the top canopy are *Terminalia tomentosa, Terminalia chebula, Anogeissus latifolia, Sapindus trifoliatus, Diospyros melanoxylon, Albizzia lebbeck, Albizzia odoratissima, Albizzia amara, Chloroxylon swietenia, Feronia elephantum, Limonia acidissima, Ziziphus xylopyrus, Grewia tiliaefolia,*

Bridelia retusa, Ixora parviflora, Pterocarpus marsupium, Dendrocalamus strictus, Bauhinia racemosa, Acacia sundra and others. The undergrowth consists of *Carissa carandas, Dodoneae viscosa, Randia dumetorum, Cassia fistula, Cassia auriculata, Lantana amara, Ziziphus oenoplia, Flacourtia montana and others.*

260. Sandalwood regenerates naturally under the protection of thorny bushes, along streams (some seeds that float in water germinate faster), and under trees where birds generally roost. Dispersal of seeds and spread of the species effectively takes place through birds, provided the area is free from recurrent fire and browsing animals.

261. Initially, seedlings need shade for survival and in the sapling stage they need diffused light for proper growth. However, once the trees are nearly 4 meters high, they can grow under full overhead light. Plants growing under full exposure have yellowish leaves while those under lateral shade have dark green leaves.

262. Growth rate of sandal in natural forests in favorable soil and moisture conditions is around 5 cm per year at GBH. Heart wood formation starts at 10 –13 years. The details of the study on growth of sandal wood in natural forests as conducted by Dr. S.N. Rai (1990) are given in the following table:

Age (Years)	GBH (cm)	Heart wood (Kg)	Separate wood (Kg)
10	10	1	5
20	22	4	25
30	33	10	60
40	44	20	100
50	55	30	135

Plantation techniques.

263. Sandal is successfully regenerated by the following techniques:
- i) Dibbling of seeds under bushes and thickets.
- ii) Dibbling of seeds in pits or mounds.
- iii) Planting of container raised seedlings.

i) Dibbling of seeds under bushes and thickets.

264. This technique is to be adopted in open scrub jungles with lots of bushes. Areas containing fairly good soil with bushy undergrowth will promote the development of sandal, which is gregarious in habit. It is therefore desirable to form large groups of sandal patches uniformly distributed all over the sandal bearing areas. Cattle readily browse sandal. It is therefore necessary to dibble the seeds under bushes and thorny thickets. The seeds are sown during monsoon. An instrument can be made by using a bamboo pole of 4 to 6 cm internal diameter and 1.5 m long to sow the seeds. The septa at the nodes are removed and one end of the pole is sharpened, or a hollow metal piece is attached to rake the soil. The pole is introduced at the base of the bush and through the hole four to five seeds are transferred to the base of the bush. Fairly good success has been achieved by this method.

ii) Dibbling of seeds in pits or on mounds.

265. The usual trench mound technique adopted for afforestation for other species of trees has also been adopted for sandal, but here a perennial host plant is also grown along with sandal either on the mound or by the side of the pit. Large number of pits are formed while uprooting sandal trees and while raising new plantations. Sowings should be done in these pits after Ist shower. The seeds should be covered with earth. Seeds of host plants preferably Neem, *Cassia siamea, Cajanus cajan* should be sown on periphery of pits.

iii) Planting of container raised seedlings.

266. The area required for this purpose is completely clear felled. Pits of 50 cm^3 are dug out at a spacing of 3 m. Healthy sandal seedlings, preferably above 30 cm in height, are planted in the pits. The usual trench mound technique adopted for afforestation for other species of trees has also been adopted for sandal. Growth of sandal is found to be much better if, at the time of planting in the field, a perennial host can be planted adjacent to the sandal seedling. Some of the good hosts are *Casurina equisetifolia, Acacia nilotica, Pongamia pinnata, Melia dubia, Wrightia tinctoria and Cassia siamea.* Miscellaneous secondary host plants are planted in the alternate row. This method has proved successful in many areas.

After care.

267. Working the soil to a radius of 50 cm once in 6 months is recommended. The host plant tends to overgrow sandalwood and may be pruned so that sandal gets maximum sunlight. Adequate protection against fire and grazing is necessary.

Regeneration from seed.

268. Seeds from known, superior populations are desirable. Sandalwood flowers and fruits twice a year. i.e. in September/October and in March/April. The seeds of both the seasons perform alike. Sandal fruits are collected fresh from the tree, soaked in water, and rubbed to remove the soft pulp. The wet seeds are dried under shade, then the dry seeds are stored in polythene bags or gunny bags. About 6000 seeds weigh 1 kilogram.

269. Fresh seeds usually have a dormancy period of 2 months. The seed takes 4 to 12 weeks to germinate after the dormancy period. Eighty percent of the seeds are viable up to 9 months. The germination rate is about 80 percent under laboratory conditions and 60 percent under field conditions. Germination can be hastened by cracking the hard seed coat. Soaking seeds in 0.05 percent gibberellic acid overnight before sowing ensures uniform germination.

Nursery Techniques.

270. Seedbeds, either sunken or raised, are formed with only sand and red earth in the ratio 3:1 thoroughly mixed with nematicides (Ekalux or Thimet at 500 g per bed of 10 m by 1 m). Plus trees will be marked and the seeds collected for sowing elsewhere or to supply in the division The seeds are soaked in 0.02 percent Agallol (organo mercuric compound) solution for half an hour to remove surface contamination. Then the seeds are spread uniformly over the bed. About I cm of sand is spread over the seeds. Around 2.5 Kgs of seeds are used for one bed. The bed is covered with straw, which should be removed when the leaves start appearing on the seedlings.

271. The seed beds are sprayed with (1) the fungicide Dithanc Z-78 (0.25 percent) once in 15 days to avoid fungus attack, and (2) 0.02 percent Ekalux solution once a month to avoid nematode damage. Sandalwood seedlings suffer from a virulent disease caused by a combined fungal and nematode infection. The initial symptom is wilting of leaves followed by sudden chlorosis and root decay. On account of this disease the mortality rate is very high, but this can be controlled by the application of nematicide and fungicide (Ekalux and Dithane) as mentioned above.

272. When the seedlings have 5 to 6 leaves. they are transplanted to polyethylene bags along with the seedling of the primary host *Cajanus cajan.* The seedlings are carefully removed from the bed with all the roots intact and then carried in a container with fungicide solution (Agallol 0. 1 percent). Roots should not be allowed to dry.

273. Shade can be provided for a week immediately after transplanting. Watering should be done daily, but excess moisture is to be avoided. Host plants are pruned frequently so that they do not over grow the sandal and hamper its growth. Polythene bags should contain a mixture of sand, red earth and farm yard manure in the ratio 2: 1: 1. Polythene bags of dimensions 30 cm by 14 cm are the best. To avoid nematode damage, Ekalux at the rate of 2 gm/poly bag or 200 g for 1 m^3 of poly bag mixture should be thoroughly mixed before filling the bags.

274. A plantable seedling of about 30-cm height can be raised in 6 - 8 months. A well-branched seedling with brown stem is ideal.

275. While carrying out the tending operation in a Section, suitable area to the extent of 20 - 40 ha having the potential of supporting the species should be identified. Preference should be given to the areas already rich in natural regeneration. The area should be fenced either by barbed wire or Solar/Electric fencing by the end of May. With the onset of monsoon dibbling of sandal seeds should be done in and around the natural bushes along with one or two seeds of host plants by slightly disturbing the soil. On the average, the spacing between the two places of dibbling should be 4m x 4m. To identify the spot, pegs should be fixed near the place of dibbling. The work of dibbling of seeds should be completed by the end of June. By the end of July or early August the area should again be gone over to check the causalities and re-sowing should be done wherever earlier dibbled seeds have not germinated. In case natural bushes are not evenly found, pits of 45 cm x 45 cm x45 cm may be got dug at an espacement of 4m x 4m and after refilling the earth, one year old tall, healthy Polythene bagged seedlings of sandalwood raised with host plants should be planted with the onset of monsoon. Casualty replacement, if any, should be completed by the end of July. The regeneration area should be marked on the Beat map and toposheet. During the next time, when this Section is taken up for regeneration, this plantation itself may be extended by including adjoining area instead of taking up planting at a new place. Intensive management at a concentrated place will gradually lead to management of Sandalwood plantations as an Estate. Effective protection to the seed bearing mother trees in the area will further help in dispersal of seeds by birds etc. and encourage natural regeneration in and around the area. Artificial regeneration by planting is recommended as supplementary to regeneration by dibbling of seeds, as the latter is found to be economical and more effective.

276. Regeneration through dibbling should be done in the areas of Improvement working circle along with the other improvement operations. The seeds should be obtained from known superior populations or identified Plus trees. The dibbling of treated seeds may be completed by

15 of June and thereafter by the end of July the areas should be revisited and in case of any failure dibbling may be done once again and completed by the first week of August.

Section 10.
ALLOTMENT OF AREA.

277. The Sandalwood Working circle is an overlapping working circle. In so far as extraction of sandalwood is concerned, the whole of Sagar division is included in the working circle. As regards regeneration of the species, the Sandalwood Reserves of the division are included in the working circle. These Reserves are Kengatte SR, Kutrahalli SR, Harnahalli SR, Bilagalale SR and Hurli SR. The details of areas are as follows:

(1)	Kengatte Sandal Reserve (Shikaripura range)	296.26 ha
(2)	Kutraahalli Sandal Reserve (Shikaripura range)	534.74 ha
(3)	Harnahalli Sandal Reserve (Shikaripura range)	503.50 ha
(4)	Bilagalale Sandal Reserve (Anavatti ranqe)	14.05 ha
(5)	Hurli Sandal Reserve (Anavatti range)	347.82 ha
	Total	**2091.37 ha**

278. Out of 2091.37 ha. an extent of 761.09 ha has been exclusively allotted to the Sandalwood working circle. The break-up is Hurli SR (347.82 ha), Bilagalale SR (14.05 ha). Kutraahalli SR (21.72 ha) and Harnahalli SR (377.50 ha). The remaining areas of the Sandal reserves, which are under either encroachment or plantations, are also to be regenerated with Sandal after the eviction of encroachments or harvest of the plantations.

279. In addition to the above it is recommended that Sandalwood should be planted in all the suitable areas of the division under various plantation programs. In particular, all the areas allotted to the Rehabilitation of degraded forests working circle (17536.15 ha), the areas allotted to afforestation for production of small timber and fuel wood (15, 981.75 ha) and to afforestation of encroached lands (18,213.23 ha) under the Afforestation and Plantation management working circle are also included in the Sandalwood overlapping working circle for the purpose of regeneration of sandalwood.

Section 11.
SANDAL IN PRIVATE LANDS.

280. In addition to growing in forest areas, there is immediate need to encourage regeneration of sandalwood in private lands. The incentive in the form of payment of bonus is already there but because of the increase in smuggling of sandalwood, people have lost interest in growing this tree in their land. Immediate action is to be taken by the forest and police authorities with the public support to control smuggling. Farmers and other private persons may be provided good quality seeds and technical know-how to encourage them to grow the species in their farmland and around their houses. Under the JFPM program VFCs may also be persuaded to grow sandalwood trees in the degraded Government land and in other areas. Incentives may be given to the staff who can successfully carry out these extension activities in their jurisdiction.

Section 12.
OTHER REGULATIONS.

281. The following regulations may be followed:

1. Any plant or tree, which serves or may serve as a host to sandal, should not be destroyed. If necessary, such trees may be pollarded.
2. In case of sandalwood sapling whose crown is within easy reach of goats, it is advisable not to destroy any bushy or thorny shrub, which shields it on either side, but to pollard the branches that overtop the sandal.
3. Climbers on sandalwood trees are to be cut back at two places.
4. When sandalwood grows into a tree, it requires complete exposure to the sun and as such over topping trees should be pollarded.
5. All plantations raised under this working circle should be closed to grazing for 5 years.
6. Under the joint forest planning and management program, village forest committees should be involved in protection and. conservation of sandal bearing areas wherever possible.
7. Focus should be given to management of private sandalwood farms. Private farmers should be encouraged to plant sandalwood in their own lands.

CHAPTER XIV.

MINOR FOREST PRODUCE OVERLAPPING WORKING CIRCLE.

Section 1.
GENERAL CONSTITUTION OF THE WORKING CIRCLE.

282. Forests of Sagar division produce a variety of products such as leaves, fruits and flowers that are used locally or traded. These products, which as a group are known as minor forest produce (MFP) play an important role in the rural economy. MFP also includes varieties of medicinal plants that are economically valuable. Because of over exploitation and. sometimes unscientific harvesting, the resource base of minor forest produce in the division has eroded considerably. For better regeneration, protection and management of these resources, the Minor forest produce working circle is proposed.

283. This overlapping working circle consists of all the forest areas of Sagar division. It also includes the non-forest government lands falling under the jurisdiction of the division which are either under the control of Forest department or where the tree growth belongs to the Government and the department exercises control over it.

Section 2.
SPECIFIC OBJECTIVES OF MANAGEMENT.

284. Specific objectives of management of the working circle are:

1. To ensure sustained use of forests by streamlining the collection of MFP on scientific basis compatible with sound silvicultural principles.

2. To involve the local people, especially communities living in and around the forest areas, in the management of resources.

3. To motivate and train the forest dependent communities in protection, improvement, harvesting and disposal of MFPs including non destructive collection, processing and marketing of value added products.

4. To meet the local requirement and raw material for cottage industries. And to encourage cottage industries to generate employment for the local people.

5. To increase the extent of minor forest produce plantations and to increase the yield of MFPs by encouraging regeneration and supplementing with artificial regeneration by intensive cultivation.

6. To identify and conserve locally available medicinal plants and raising endangered or threatened medicinal species on a large scale by involving village forest committees and research organisations.

Section 3.
AREA AND ALLOTMENT.

285. It covers the entire working plan area of Sagar division. No special area has been allotted.

Section 4.
CROP AND YIELD.

286. The important minor forest produces available in Sagar division are as follows:

Important MFP species

Sl. No	Botanical name	Common name	Part used
1	*Murraya koenigii*	Karibevu (Curry leaves)	Leaves
2	*Cassia fistula*	Kakke	Bark
3	*Semicarpus anacardium*	Marking nut (Dhobi's nut)	Fruits
4	*Tamarindus indica*	Hunase	Fruits
5	*Diospyros melanoxylon*	Beedi leaf (Tupra)	Leaves
6	*Acacia concinna*	Seege kai	Fruits
7	*Terminalia chebula*	Alale	Fruits
8	*Pongamia pinnata*	Honge	Seeds
9	*Emblica officinalis*	Nelli	Fruits
10	*Sapindus emarginatus*	Antuvala (Soap nut)	Fruits
11	*Anacardium occidentale*	Godambi	Seeds
12	*Garcinia indica*	Muruganahuli	Fruits
13	*Garcinia cambogia*	Uppagehuli	Fruits
14	Honey/Wax	Jenu	Jenu collection
15	*Vateria indica*	Saldhupa	Seeds/ Fruits

287. The minor forest produce yielding trees are widely scattered throughout the division. Revenue realised from the sale of MFPs in the division during- the period 1990- 1999 is given below:

Revenue realized from MFP sales in Sagar division

Statement of Revenue from NTFP From 1990-1991 to 1997-99.										
Sl No	Range	Species	Year							
			1990-91	91-93	92-94	93-95	94-96	95-97	96-98	97-99	97-00
1	Sagar	Tangadi & Kakke bark	2786	-	-	-	-	-	-	-	6258
		Cinnamon leaves	45966	-	61955	-	116877	-	157955	-	125955
		Tupra leaves	320000	-	98838	-	89838	-	89838	-	165838
		Honge leaves & seeds	2107	-	1555	-	2105	-	-	-	-
		Halmaddi latex	4157	51888	-	-	-	-	-	-	-
		Cashew fruits	-	97777	-	68195	-	-	-	-	-
		MFP	-	58888	-	-	68888	156786	-	313600	-
		Muruganahuli	-	8597	-	86001	-	476899	-	68000	-
		Uppagehuli Honey & Beewax	-	-	3187	-	5587	-	3185	-	4286

		Cashew crop	-	-	-	56666	-	93745	-	-	389500
		Dhupa seeds	-	-	-	-	-	2334	2201	-	-
2	**Sorab**	Tangadi & Kakke bark	1786	-	1587	-	2057	-	-	-	4500
		Chinnamon leaves	25786	-	45787	-	82785	-	-	-	111786
		Tupra leaves	81786	-	30000	-	28786	-	29786	-	30786
		Honey & Beewax	10199	-	6187	-	7885	-	4305	-	-
		Halmaddi latex	-	16888	-	-	-	-	-	-	-
		MFP	-	58999	-	68105	-	38000	-	78888	-
		Karibevu leaves	-	-	3501	-	-	-	-	-	-
		Dhupa seeds	-	-	2000	-	-	-	-	-	-
		Dalchini leaves	-	-	-	-	-	-	92101	-	-
3	**Hosanagara**	Honey & Beewax	2007	-	-	-	-	-	3333	-	4000
		Tupra leaves	550000	-	-	-	-	3334	78838	-	131838
		Chekarani balli	1577	-	1597	-	3157	-	4657	-	3600
		Cinnamon leaves	41999	-	95501	-	127999	-	-	-	121501
		Cashew fruits	-	125888	-	-	-	-	-	-	-
		MFP	-	61888	-	-	62888	38000	-	60000	-
		Muruganahuli Uppagehuli	-	2557	-	36001	-	95888	-	-	-
		Dhupa seeds	-	-	2000	-	-	8388	-	-	-
		Cashew crop	-	-	-	-	-	111190	-	-	-
		Dalchini leaves	-	-	-	-	-	-	179101	-	-
4	**Kargal**	Cinnamon leaves	79559	-	179559	-	201875	-	305000	-	287202
		Tupra leaves	11786	-	-	-	-	-	-	-	-
		Halmaddi latex	-	51888	-	-	-	-	-	-	-
		MFP	-	42999	-	64999	-	61786	-	66667	-
		Cashew fruits	-	51000	-	-	-	-	-	-	-
		Honey & Beewax	-	1005	4555	-	6155	-	7336	-	10777
		Cashew crop	-	-	-	26000	-	41888	-	-	-
		Muruganahali Uppagehali	-	-	-	81008	-	157885	-	101717	-
5	**Annavatti**	Honey & Beewax	3101	-	-	-	2501	-	-	-	-
		Tupra leaves	78993	-	40000	-	33525	-	33575	-	51786
		MFP	-	26000	-	36001	-	21906	-	32110	-
		Tamarind leaves	-	21556	-	17011	-	9256	-	16155	-
		Chinnamon leaves	-	-	-	46180	-	72601	-	57888	-
6	**Nagara**	Chinnamon leaves	51899	-	131795	-	205877	-	279555	-	251955
		Tupra leaves	39938	-	-	-	-	-	-	-	12086
		Chekrani balli	1177	-	2857	-	4786	-	6155	-	19999
		Honge leaves & seeds	1157	-	-	-	-	-	-	-	-
		MFP	-	38999	-	50999	-	67888	-	42889	-
		Muruganahuli Uppagehuli	-	8500	-	25888	-	157888	-	-	-
		Cashew fruits	-	39000	-	-	-	-	-	-	-
		Cashew crop	-	-	-	100095	-	80100	-	-	-
		Dhupa seeds	-	-	-	-	-	2188	-	-	-
		Honey & Beewax	-	-	-	-	-	1100	1756	-	1755
7	**Shiralkoppa**	Tupra leaves	185999	-	-	-	25781	-	27786	-	85000
		Honey & Beewax	2151	-	-	-	-	-	-	-	-
		Tamarind leaves	-	26786	1000	24111	-	18001	-	40125	-
		Dhupa leaves	-	-	-	-	-	555	-	-	-
8	**Anandpuram**	Tupra leaves	225000	-	113938	-	41881	22888	72835	-	88838
		MFP	17888	-	-	-	72838	-	-	25786	-
		Chinnamon leaves	-	-	3000	-	-	4888	-	-	-
		Honey & Beewax	-	-	-	-	-	555	1255	-	1155

9	**Ambligolia**	Tupra leaves	90101	-	-	-	-	-	-	-	32086
		Tamarind leaves	-	22555	-	7800	-	6101	-	15786	-
		Chinnamon leaves	-	2000	-	-	-	2500	-	-	-
		Dhupa seeds	-	-	1000	-	-	-	-	-	-
		MFP	-	-	3000	13999	-	5205	-	3788	-
10	**Shikaripura**	Tupra leaves	89999	12199	65333	-	-	-	42788	-	92786
		Honge leaves & seeds	-	-	1000	-	-	-	-	-	-
		MFP	-	-	-	15999	-	9005	-	5999	-
		Tamarind leaves	-	-	-	85000	-	60000	-	111786	-
		Total	**1968904**	**827857**	**900732**	**910058**	**1194071**	**1828748**	**1423341**	**1041184**	**2035273**

288. Though Halmaddi –(A*ilanthus malabaricum)* is one of the important MFPs of the division, the Government has banned its collection, as the trees are found to be severely damaged by excessive blazing. Thupra leaves (Beedi leaves), Tamarind fruits and Eucalyptus leaves etc are the main revenue earning products of the division and these need to be encouraged for their production. Though other species such as seegekai, antuvala and nelli are available in substantial quantities, these do -not contribute much to revenue because cheaper chemical substitutes are available in the market. Production of these MFPs should also be encouraged, as these are increasingly becoming popular as natural organic products.

Section 5.
METHOD OF TREATMENT.

289. Minor forest produces are important sources of revenue. More importantly, they play a very significant role in the rural economy and rural life support system. Therefore, systematic management of MFP is necessary. The present system of collection and disposal of MFP is through tender-cum-auction sale. With the introduction of JFPM program, it is desirable that collection and disposal of MFP should be increasingly channelised through the institution of village forest committees (VFC). Therefore, wherever there are village forest committees. MFPs should be collected and disposed of through these committees and each village forest committee should be considered as a unit.

290. For all the remaining forests, the working circle is divided into convenient units for exploitation. Each range is taken as a unit for the purpose of sale. The produce will be sold through Tender-cum-auction. The period of lease will be for two years (Biannual). The units of sale are:

1. Anavatti unit.
2. Ambligola unit.
3. Anandapuram unit.
4. Sagara unit.
5. Shikar.ipura-unit.
6. Shiralkoppa unit.
7. Soraba unit.
8. Kargal unit.
9. Hosanagara unit and
10. Nagara unit.

Section 6.
PRESCRIPTIONS.

291. The following prescriptions should be followed:

1. The collection of MFPs should be done in a systematic, scientific and controlled manner. Therefore, there should be proper supervision at the field level to avoid any harm to the trees. The responsibility to the proper compliance of agreement conditions will be with the Range Forest Officer concerned. In case of any violation of agreement conditions, he should report the matter to the Deputy Conservator of Forests for taking penal action against the society/contractor.

2. It will be the responsibility of the MFP contractor or the village forest committee to ensure that during summer season the people engaged in the collection of MFPs do not set fire to the forests to facilitate collection of any item and that they extend all co-operation to the local staff to keep the forests free from fire. In the interest of forests and wild life, the sensitive areas having the problem of smuggling, poaching, fire etc. may be ordered for closure, if the Deputy Conservator of Forests feels necessary, after obtaining the prior approval of the Chief Conservator of Forests (Working Plans).

3. The department should arrange for periodic training programs on techniques of collection of MFPs for the benefit of the members of the VFCs, MFP collectors and others. This would help in harvesting, the MFPs on scientific lines without causing any damage to the trees.

4. The Deputy conservator of Forests should ensure that the village forest committee or contractor concerned submits regular monthly returns of the quantity of MFP collected and disposed off. This information will give an idea about the correct potential of particular MFP in the division and will help in fixing more realistic upset price for future.

5. The restricted items like antlers, horns, bones, teeth, skins etc of wild animals found during the routine perambulation of the staff should be sent to the concerned Range Forest Officer for safe custody. Range Forest Officer in turn will give regular report in this regard to Deputy Conservator of Forests.

6. In case the seeds of any species included in the list of MFPs are required for departmental purpose the village forest committee/contractor will have to supply the same to the Department on priority as per the rates fixed by the Silviculturist.

7. Collection of certain MFP species entails debarking and uprooting of trees resulting in depletion and destruction of the resource base. Debarking of Kakke *(Cassia fistula)* is an example. Sometimes, trees are heavily lopped for the collection of leaves, flowers, fruits etc. Such destructive forms of collection of MFPs should be avoided. Many of these MFPs contribute very little to the revenue of the division but the damage caused to the ecosystem by way of their collection is enormous.

8. Seeds of Honge, Bevu, Hunase etc in drier localities and those of Honge, Antuvala, Seege etc in moist localities should be dibbled in the rainy season at the rate of 2 kg per ha. In this way,

100 hectares should be tackled per year in each range so that 10,000 hectares may be covered within the Plan period.

9. Plantation of MFP species should be raised annually in each range by planting 400 seedlings per ha at a spacement of 5 m x 5-m, Grafted varieties of Tamarind. Nelli and such other species suitable for the locality should be introduced. An abstract of year-wise and range-wise areas to be planted is given below:

(Area in hectares)

Sl. No	Range	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Total
1.	Soraba	20	20	20	20	20	20	20	20	20	20	**200**
2.	Anavatti	20	20	20	20	20	20	20	20	20	20	**200**
3.	Sagar	20	20	20	20	20	20	20	20	20	20	**200**
4.	Ananadapuram	20	20	20	20	20	-	-	-	-	-	**100**
5.	Ambligola	20	20	20	20	20	20	20	20	20	20	**200**
6.	Shikaripura	20	20	20	20	20	20	20	20	20	20	**200**
7.	Hosanagara	20	20	20	20	20	20	20	20	20	20	**200**
8.	Shiralkoppa	10	-	-	-	-	-	-	-	-	-	**10**
		150	**140**	**140**	**140**	**140**	**120**	**120**	**120**	**120**	**120**	**1310**

292. Details of areas are given in **Annexure - 26**. No planting has been proposed in Nagara and Kargal ranges, as suitable areas are not available.

Section 7.
CONSERVATION AND DEVELOPMENT OF MEDICINAL PLANTS.

293. Medicinal plants form a part of minor forest produce. These are found in all types of forests of the division. It is generally said that every plant species has got some medicinal value but its property and usage is not well understood inspite of concerted efforts made over the years. Further, many species have disappeared and many are under threat of extinction. It is therefore necessary to take measures for the conservation of the resource base of medicinal plants. Any forest area for that matter has got varieties of medicinal plants resource but the evergreen, semi-evergreen and deciduous forest areas are the most potential areas for conservation of medicinal plants resources.

294. **Objectives.**

1. To protect and conserve the rich heritage of medicinal resources in the area for sustainable use.
2. To secure continuous healthcare for vast majority of people.
3. To conserve bio-diversity of medicinal plants.
4. To explore possibilities for future drug development as substitute or alternative to allopathic medicines.

295. **Prescriptions.**

1. In-situ conservation should be given the highest priority as it could conserve vast array of genetic diversity within the species followed by ex-situ conservation preferably in their natural habitat by establishing herbal gardens.

2. Identify species that are in more demand and classify them in to Rare. Endangered and Threatened (RET) in addition to Endemism if any and evolve methods for their conservation. Local knowledge and tribals knowledge in the field of medicinal plant usage should be given utmost importance at the time of identification.

3. To check effectively the illicit collection of medicinal plants from forest areas.

4. Facilitate the development of processing centers at near by places.

5. Assess the status of population levels of various medicinal plant species.

6. Assess the anticipated demand in the coming years in addition to assessing the present day demand keeping in view the consumption status by the present day users.

7. The expertise developed by voluntary organisations such as the Foundation for revitalisation of local health traditions (FRLHT) should be availed in conserving and propagating medicinal plant resources of the division.

8. Besides conserving medicinal plants in their natural habitat, Herbal gardens should be raised. The gardens could also be utilised for mass multiplication of species, which are in more demand. An abstract of year-wise and range-wise areas to be developed as Herbal gardens is given below:

(Area in hectares)

Sl. No	Range	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	Total
1.	Soraba	20	20	20	20	20	20	20	20	20	20	**200**
2.	Anavatti	20	20	20	20	20	20	20	20	20	20	**200**
3.	Nagara	20	20	20	20	20	20	20	20	20	20	**200**
4.	Sagar	20	20	20	20	20	20	20	20	20	20	**200**
5.	Ambligola	20	20	20	20	20	20	20	20	20	20	**200**
6.	Shikaripura	20	20	20	20	20	20	20	20	20	20	**200**
7.	Hosanagara	20	20	20	20	20	20	20	20	20	20	**200**
8.	Shiralkoppa	10	-	-	-	-	-	-	-	-	-	**10**
		150	**140**	**140**	**140**	**140**	**140**	**140**	**140**	**140**	**140**	**1410**

296. Details of areas are given in **Annexure-27**. No planting has been proposed in Anandapuram and Kargal ranges, as suitable areas are not available. Thus, there will be a treasure of medicinal plants to an extent of 1410 ha at the end of the Plan period. Herbal gardens should be used as education centre for school and college students to teach them about species, their phenology and their relative roles in the ecosystem, etc.

297. Some of the common medicinal plants occurring in the division are listed below:

Sl. No.	Botanical Name	Common Name	Family
1	*Aristolochia indica*	Eswari gida	Aristolochiacee
2	*Asparagus racemosa*		Liliaceae
3	*Tylophora asthmatica*	Adumuttada balli	Asclepiadaceae
4	*Hemidesmus indica*		Asclepiadaceae
5	*Tinospora cordifolia*	Amrutha balli	Asclepiadaceae
6	*Murraya konigii*	Curry leaves	Rutaceae
7	*Abrus precatorius*	Gulgangi	Papiolanaceae
8	*Aegle marmelos*	Bilva	Rutaceae
9	*Emblica officinalis*	Nelli	Euphorbiaceae
10	*Terminalia chebula*	Alale	Combrataceae
11	*Ficus bengalensis*	Ala	Moraceae
12	*Ficus religiosa*	Arali	Moraceae
13	*Gloriosa superba*	Gowri huva	Liliaceae
14	*Eucalyptus species*	Nilgiri	Myrtaceae
15	*Santalum album*	Srigandha	Santalaceae

CHAPTER XV.

MISCELLANEOUS REGULATIONS.

Section 1.
FOREST PROTECTION.

298. Protection is one of the most important activities of the forestry sector to preserve the forest wealth. The problems of forest protection are increasing day by day posing real challenge to the Forest Department. The problems associated with protection of forests are many. These are broadly classified under the following categories:

1. Encroachment of forest lands.
2. Recurrent forest fires.
3. Illicit cutting and removal of timber. firewood, MFP and other forest products for bonafide use.
4. Smuggling of the forest produce by illicit removal for commercial purpose.
5. Grazing in forestlands.
6. Weed menace.
7. Pests and Diseases.
8. Poaching.

Rehabilitation of forest encroachment.

299. Encroachment is one of the major problems of the forest department. Despite several penal provisions made in the Karnataka Forest Act. 1963, encroachment of forestlands has not come down. On the contrary, it is increasing day by day and has become a chronic problem. Encroachment is more in minor forests than in state forests and reserved forests. The total extent of encroachment that has taken place in Sagar division so far as per the inventory analysis of satellite imagery and ground truth verification is 18213.23 ha. This constitutes 12.32% of the forest area of the division. Maximum encroachment is in Ambligola range (2999.50 ha) followed by Shiralkoppa range (2897.35 ha) and the minimum is in Kargal range (214.27 ha). Details of areas under encroachment are given in **Annexure-8**. **Map-26** displays the compartments in which encroachments have taken place.

300. The encroachments are of the following types:

1. Fencing of the area initially for grazing and gradually converting to cultivable lands.
2. Cultivating lands for growing rainfed crops such as cotton, chillies, tomato, ragi, pineapple etc.,
3. Cultivating irrigated land for growing paddy, sugarcane, groundnut, etc.
4. Cultivating land with arecanut, coconut, mango, banana etc.
5. For constructing dwelling houses/ huts.

301. Immediate action should be taken to detect and book the encroachment cases as per law. It is also likely that some of these encroachments are because forest lands being granted by Revenue department to land less people. There are instances where Revenue records have not

been updated after forests were notified and Revenue department continued to grant from these lands treating these as Revenue lands. It is therefore very important to ensure that the Revenue records are updated so that no grants are erroneously made by the Revenue department from out of forestlands.

302. As far as the encroachments are concerned, the present policy is to evict all the encroachments that have taken place after 27.4.1978. As such all these encroachments have to be evicted as per law after following due procedure.

303. As far as possible retrieval of encroached forestlands should be completed early in the plan period. At any cost this should not exceed more than three years. However, protection and regeneration activity should be taken up simultaneously as per the following schedule.

Schedule for the improvement of forest cover.

Sl No	Range	Total Encroachment	Year										Total extent to be Planted	Total area to be protected
			01	02	03	04	05	06	07	08	09	10		
1	Ambligola	2999.50	50	50	50	50	50	50	50	50	50	50	**500**	2499.50
2	Anandpuram	2175.71	50	50	50	50	50	50	50	50	50	50	**500**	1675.71
3	Anavatti	1834.72	50	50	50	50	50	50	50	50	50	50	**500**	1334.72
4	Hosanagara	1692.59	50	50	50	50	50	50	50	50	50	50	**500**	1192.59
5	Kargal	214.27	50	50	50	50							**200**	14.27
6	Nagara	1532.09	50	50	50	50	50	50	50	50	50	50	**500**	1032.09
7	Sagar	1187.49	50	50	50	50	50	50	50	50	50	50	**500**	687.49
8	Shikaripura	2504.79	50	50	50	50	50	50	50	50	50	50	**500**	2004.79
9	Shiralkoppa	2897.35	50	50	50	50	50	50	50	50	50	50	**500**	2397.35
10	Soraba	1174.72	50	50	50	50	50	50	50	50	50	50	**500**	674.72
		18213.23											**4700**	**13513.23**

304. As these encroached areas are close to human habitations, it is prescribed that these areas after their retrieval should be planted up during the plan period with fuel wood and small timber yielding species. It is advisable to plant these with fast growing species like *Acacia auriculiformis.* In this way, the areas can be planted up easily and within a relatively shorter period. Therefore, these areas have been tentatively allotted to the plantation and afforestation working circle. Out of the total extent of 18213.23 ha of area to be retrieved. 4700 ha will be planted during the Plan period and the balance area will be given rigid protection so that the available rootstock can develop. In suitable areas, MFP yielding species may also be introduced under the MFP overlapping working circle.

Protection from fire:

305. Occurrence of fire in the dry season is very common in forest areas of the division. It is estimated that about one-third of the moist deciduous forests, two-thirds of the dry deciduous forests and almost the entire extent of the scrub forests are burnt every year. Most of the fires are accidental. However some are intentional. Fire leads to loss of biomoss, loss of bio-diversity of flora and fauna and loss of soil microbes. Fires also expose the forests for diseases and pest

attacks. Inspite of several fire incidents sometimes these are not reported at all to the Head Office. Even if these are reported the information is not accurate. This is mainly because of the inherent feeling among the staff that if reported disciplinary action would be initiated against them. Some of the fire incidents that occur in the interior areas go unnoticed. Often fire damage is noticed only after a few days of fire occurrence.

306. It has been the experience that funds earmarked for fire protection works are very meager and are utilized only for carrying out fire tracing works along roadsides. Demarcation lines (D-lines) are generally not maintained and fire traced. As a result, fire spreads unchecked and destroys the forests. Peoples participation in fire protection would be very useful and should be given utmost importance.

Prescriptions.

307. It is always better to take preventive measures to check the outbreak of fire rather than allowing it to break out and then trying to extinguish it. The following prescriptions are recommended:

1. Wherever village forest committees (VFC) have been constituted under the JFPM programme, the concerned VFC should be entrusted with the task of controlling fire in the forest area under its management. There should be provision to pay incentives to the VFCs for fire control. The payment may be on the basis of the quantum of success in protecting the area from fire.
2. Watchtowers should be erected at strategic locations to enable detection of fire.
3. Fire fighting units/camps should be established at strategic points in dry and moist deciduous forests in the fire season to detect and check fire incidents.
4. Officers should compulsorily inspect the D-lines in the forests and report the same to the higher authorities. The very inspection of D-lines by CFs and DCFs will improve the quality of the work turned out, which would help in controlling fire incidences.
5. All demarcation lines should be cleared and burnt annually and kept clean.
6. Fire tracing works should be carried out in and around the plantations and the lines should be across the direction of the wind.
7. Fire tracing works should be done between December to January.
8. Proper communication network should be established to convey the message of fire incidence to take early action.
9. Modern fire fighting units with chemical fire extinguishers should be provided to the protection staff.
10. A comprehensive fire management plan should be prepared for the entire division keeping in view all the above aspects of fire protection. Sufficient budget should be provided to carry out fire protection works as per the fire management plan.

Protection of forest from smuggling, illicit cutting, etc.

308. Sagar division has large extents of timber growing areas fairly close to densely populated towns and villages. Illicit smuggling of timber, especially of Teak and Rosewood, is quite common in the forest areas of the division, particularly in the ranges of Soraba, Shikaripura, Shiralkoppa, Ambligola and Anavatti. Organised gangs often do smuggling and unless the departmental personnel are well prepared to face them in the forest, it becomes difficult to apprehend them. There have been instances of departmental staff having been assaulted by gangs

of armed smugglers. Protection camps have been established in the smuggling prone areas of the division like the camp at Kattigehalla in Ambligola range. There is need to strengthen these camps by providing sufficient number of protective staff with better communication facilities, arms and ammunitions. There are a number of vacancies at the level of foresters and forest guards, which need to be filled at the earliest.

Protection from grazing.

309. The forests of Sagar division particularly the deciduous and scrub forests, are subjected to uncontrolled and unrestricted grazing. This has caused loss of regeneration and- degradation of forests. Over grazing has rendered most of these forests unproductive. Protection from grazing is one of the important measures proposed for effective management of forests. Following are the various measures that are used for regulating grazing in the forestlands:

1. **Controlled grazing:** Number of animals allowed for grazing for unit area is fixed based on the carrying capacity. The carrying capacity is determined by the productivity of the area.

2. **Continuous controlled grazing:** Here the animals are kept permanently on a given area and allowed to move freely. Since Cattle shows preferential feeding on certain species only such species disappear in the long run. This is not preferred.

3. **Deferred grazing:** This implies postponing or delaying the grazing. The idea is to provide an opportunity to new plants to establish themselves and to older plants to gain sufficient growth. Deferred grazing can be easily applied in the forest of Sagar Division by dividing compartments under **3 grazing series**. Grazing is allowed in two series and rest is given in the 3rd series during the favorable growth.

4. **Rotational grazing:** Here the grazing cattle are distributed in such a way that animals make a more uniform usage of forage. In this case, the compartments classified into 10 grazing blocks excluding the compartments situated near the villages. Cattle are allowed to graze in sequence from block 1 to block 10, which are evenly distributed to meet the fodder requirement of cattle of different villages. Further, the compartments, which are included under Improvement working circle, are totally prohibited from grazing for a period of 5 years from the year of extraction. However they may be allowed to graze in the remaining plan period.

5. **Deferred rotational grazing:** This is a combination of both the practices of Deferred grazing and Rotational grazing. In this case grazing in one part of the forest is deferred in some season of the year during which time the other part of the forest is grazed.

310. The ideal method that could be adopted in this case is the Deferred rotational grazing by slight modification where the period of deferment may be for some years in stead of a few months.

311. Though control of grazing is extremely difficult in the present day context, still concerted efforts need to be made by the department to enrich the forest, which are totally devoid of under storey. This is possible only by prohibiting grazing in forestlands for a particular period.

312. **Prescriptions:**

1 All compartments adjacent to (within 2 kms) villages be allowed for grazing unless otherwise prohibited, while notifying the forests.
2 All compartments, where regeneration is proposed either artificially or naturally are to be prohibited for grazing irrespective of their locations.
3 Wherever there is a need, such block or compartment has to be closed by erecting 3 line-wire fencing.

Protection from weeds.

313. Though weed growth sometimes protects plants from being browsed, especially in the early stages, it often poses problem by competing with the seedlings for nourishment, space etc. Weeds also pose serious problem by producing a lot of inflammable material in the forests making the area more susceptible to fire. In Sagar division, *Eupatorium* has become a serious problem as it produces a lot of inflammable material and is a serious fire hazard in the dry season. Cutting of *Eupatorium* before flowering can control fire hazard in the ensuing dry season to some extent. Besides its regeneration from seeds will also come down considerably. However, it is practically impossible to eradicate *Eupatorium* from the forest, as its physical removal is an expensive proposition. As far as possible, plantations should be raised in heavily infested areas, which could reduce the problem and increase the productivity of the area.

Pests and diseases.

314. Teak is infested with skeletonizers and defoliators. However it does not cause much damage to the crop as a whole.

Poaching.

315. People of the surrounding villages occasionally hunt small animals like hare, deer, etc and some birds like patridges, pigeons and others. Intensity of poaching is however not much.

Section 2.
JOINT FOREST PLANNING AND MANAGEMENT.

INTRODUCTION.

316. The National Forest Policy, 1988 gives priority to protection of the natural forests for environmental stability and ecological balance and for meeting the biomass needs of the local community. It also lays emphasis on creation of a massive people's movement and on ensuring their participation and involvement in the all round protection and development of forests. The approach of joint forest management was recommended by the Government of India in June 1990 and the Government of Karnataka issued its JFPM notification in 1993, giving guidelines for the constitution of village forest committees (VFCs), and formulation of management plans in consultation with the community. JFPM was restricted to forest areas having less than 0.25 crown density and net incremental benefits were to be shared equaling between the community and the State.

317. **OBJECTIVES.**

1. To ensure people's participation in village level planning to address the issues pertaining to the forestry related problems faced by them and the Karnataka forest department.
2. To ensure forest protection and management.
3. To analyze the causes of degradation of forests and evolve appropriate measures to halt such degradation and to take appropriate steps to improve the ecology and environment of the JFPM areas.
4. To ensure that the communities utillse the forest resources sustainably.

318. **STAKE HOLDERS.**

The stakeholders are:

- ❖ Local communities and department.
- ❖ Small scale industries and artisans.
- ❖ Local health practitioners.
- ❖ Woman folks.

319. **AREAS COVERED UNDER JFPM.**

1. Degraded forest areas leaving density less than 0.25 may be covered under JFPM.
2. Government wastelands like C and D class lands, Gomals, village lands and Tank foreshore areas etc. where plantations have been raised under specific Social forestry schemes may also to be included under JFPM.
3. All the areas covered under the management of VFCs formed in the division since the inception of JFPM.

320. **ACTIVITIES.**

1. To Form of village forest committee as per the guidelines.
2. To register the VFC under Karnataka Forest Act, 1963.
3. To conduct PRA exercise to assess the problems and the local resources.
4. To plan for development by involving local community.
5. To prepare Memorandum of Understanding.
6. To enter into agreement with the VFC.
7. To provide seed money to the VFC.
8. To implement the JFPM.

321. As per the policy decision of the Government of Karnataka, VFC's are formed for forests having less than 0.25 canopy cover for the purpose of improving forests and at the same time meeting the day to day needs of the local community. In turn the Government Order ensures sharing of revenue between the VFC and the Karnataka forest department on 50:50 basis. The GO also provides for the formation of VFC's for plantation raised under specific schemes.

322. **PRESCRIPTIONS.**

1. The prescriptions of Micro plans of the VFC for a particular portion of a forest should be considered as prescriptions made in the working plan only.
2. The Jurisdictional staff shall follow the procedure laid down and prepare site-specific plans before implementing the project. Government orders and further amendments shall be scrupulously followed.
3. Every month the Section forester should conduct a monthly meeting of the VFC under the Chairman ship of VFC president. RFO should attend such meeting at least once in three months.
4. All MFPs from the areas covered under JFPM shall be sold or harvested by the concerned VFC only as decided by the management committee.
5. Continuous efforts should be made to create and sustain the JFPM movement by creating required awareness among the people and the staff through training programs.
6. Before handing over any area to the VFC under the JFPM program a base line study of the area should be carried out.

323. In Sagar Division, 52 village forest committees have been constituted as per the Guidelines laid down in the Government order on JFPM. The status of VFCs in the division is given in **Annexure – 18.**

Section 3.
SOCIAL FORESTRY ACTIVITIES.

324. Raising of plantations in the areas other than the traditional forest areas, such as gomal lands. C and D class lands, roadsides, canal banks. Tank foreshore areas and such other common wastelands to meet the day-to-day requirements of the local community for their fuel wood, fodder, small timber, flower, fruits, green leaves etc is referred to as social forestry. The Social Forestry division was established in Shimoga district with headquarters at Shimoga in the early part of 1980s having jurisdiction over the entire district including Sagar forest division. Since then, the division has been implementing the Social Forestry project, which was in force during that time. Plantations have been raised over the years in different localities under different models. Subsequently the social forestry wing was transferred to the district sector and was attached to Zilla Panchayath in the year 1987. Since then it is working under the Zilla Panchayat and implementing projects sanctioned by the Zilla Panchayath to achieve their desired goals. Social forestry as explained is meant to meet the social aspirations of the society. The plantations raised under the jurisdiction of Sagar forest division during the period 1987- 88 to 1999-2000 is listed out at **Annexure -19**. It is prescribed that, for management purpose, prescriptions given for the plantations in other working circles be followed.

325. **SPECIFIC OBJECTIVES.**

1. To meet the fuel wood, fodder, small timber, fruits, flowers, green leaves demands of the local community.
2. To reduce pressure on the traditional forests.
3. To check soil erosion and soil degradation.
4. To enhance the water holding capacity of soil.

5. To create aesthetic value besides providing shade to the travelers.
6. To clean the environment.
7. To maintain ecological balance.
8. To increase the tree cover, so as to meet the policy objectives of the State Government to attain 2/3 of the planned area.

326. **PRESCRIPTIONS.**

(1) Plantations raised under social forestry programs in school compounds, hospitals, canal banks, places of worship etc. are not recommended for felling.

(2) In respect of plantations assigned to VFCs and raised under rural development programs and plantations assigned to village panchayats the produce will be shared with VFCs and the panchayats as per the provisions of the Government orders in this regard.

(3) In areas without much natural growth. 20 mother trees per ha should be retained so that the area does not become totally denuded.

(4) Felling should not be carried out in areas that are important from the point of eco tourism.

(5) The system of clear felling followed by coppice regeneration will be adopted for *Eucalyptus* plantations. Miscellaneous species found in these areas will be retained.

(6) The plantations of *Acacia auriculiformis* will be clear felled and followed by artificial regeneration. In case the growth of the species is good, some trees (50 to 100 trees per ha) may be retained for the purpose of timber production.

(7) Fruit bearing, flowering and ornamental trees on roadside shall not be felled.

(8) While preparing the projects for development more trust should be given on **water shed** approach, supported with **SSP** (Site Specific Plan) covering both arable and non-arable areas. In farmlands **Agro-forestry** and **farm-forestry** be given equal importance as that of non- arable areas. This would enable to achieve the objectives envisaged in the plan.

(9) Species such as Honge, Neem, Tamarind, Teak should be advocated in the Farm forestry component. Species such as *Eucalyptus* and *Acacia auriculiformis, Acacia hybrid and A. mangium, Casurina* could be advocated as **short duration** crops to harvest early returns in the farm forestry, Sesbania could be used as a fodder plant in the **Agro-Forestry**. *Gliricidia maculata* should be used for green leaves in the **Agro-Forestry.** The Social Forestry wing should encourage raising of Teak in farmlands. Required seeds/ propogules should be supplied to interested farmers.

(10) Tall plants of species like Neem, Neralu, Halasu, Mango, Tarmarind, Hippe and Ficus should be planted in avenue plantations with ornamental species at regular intervals to break the monotony.

(11) All plans should be implemented with the active and willing co-operation of the local community.

(12) **School forestry** should be given more importance to inculcate the love for trees and love for nature among the school children.

(13) **Decentralized nurseries** raised through the VFC's (Village Forest Committees) VFC's are made more viable by imparting training on value addition techniques to forest based products such as Agarbathi making, Apiculture (Bee keeping), Mushroom cultivation etc. Training on grafting techniques should be imparted to the villagers / VFC members.

(14) Subsidy schemes should implemented by providing smokeless chulas and Gobar gas / Bio gas plants so as to reduce the fuel wood consumption.

(15) **Greening of Towns/Villages:-** Efforts should be made to completely plant up road sides, parks, Temples, Mosques, Burial grounds and other common grounds available in Towns and Villages by using iron tree guards or tree guards made out of Eucalyptus / Casuarina pole in order to improve and maintain better environment in and around the Towns and Villages.

(16) **Grafted seedlings** of Mango, Halasu, will be distributed to the needy as per the policy of the Government so as to enable them to plant them up in their Homesteads.

(17) Extension forestry should be given more thrust and arrangements should be made to broadcast / telecast forestry programs through Radio and Doordarshan respectively.

Section 4.
ESTABLISHMENT OF PERMANENT SAMPLE PLOTS.

327. Permanent sample plots should be laid in the division in consultation with the Research wing of the department. Two to three sample plots should be maintained in each type of forests. It is also suggested that pure stands of important species be raised and maintained like sample plots. Observations should be recorded periodically from the sample plots by the Research and Working Plans wings. The territorial staff should maintain the sample plots.

Section 5.
MAINTENANCE OF BOUNDARIES.

328. Maintenance of boundaries of the forests is essential for the effective management of the forests. This is also useful for the field level functionaries to trace and book forest offences. The

Working Plans division until March 2000 has surveyed an extent of 1,37, 648.59 ha out of 1,47,829.40 ha of forest area of the division. The areas have been demarcated by fixing stone pillars and cairns. Further, compartments have been laid out by fixing GI plates along the boundaries. These boundaries need to be maintained annually by clearance to a width of at least 3m, which will also help in checking fire during the dry season.

329. Balance area to be surveyed and demarcated is 10,180.81 ha. It is stipulated that the balance survey and demarcation works should be completed in the first three years of the Plan period as below:

2002-2003	3500.00 ha.
2003-2004	3500.00 ha.
2004-2005	3180.81 ha.

Section 6.
UP-DATING OF FOREST RECORDS IN REVENUE REGISTERS.

330. As soon as an area is notified as Reserved forest under Section 17 of the Karnataka Forest Act, 1963, the Revenue authorities ought to make entries in the mutation register to that effect stating that the area is declared as Reserved forest. However, it has been noticed that on several occasions this has not been done. This has resulted in grant of Reserved forest lands by the Revenue authorities to the local villagers. In order to avoid such discrepancies, the territorial staff should look into the matter and contact the concerned Revenue authorities to update the forest details in the revenue registers (Mutation registers) Directions from the Government in this regard have already been issued, which need to be pursued vigorously.

Section 7.
CONSERVATION OF RARE, ENDANGERED AND THREATENED (RET) SPECIES.

331. Disappearing species are classified as Endangered and Threatened. Endangered species are the ones that are in the imminent danger of extinction. Threatened or rare are those species that are not in the immediate danger but might have declined considerable. But after the Endangered species Act 1973, the word Threatened has been more common than 'rare'.

332. The following are some of the Endangered and Threatened species of the tract and these need to be preserved:

Endangered and Threatened species.

Sl. No.	Name of the species	Family
1	Garcinia indica	Clusiaceae
2	G. talboti	Clusiaceae
3	Kingiodendron pinnatum	Fabaceae
4	Bauhinia racemosa	Papilionaceae
5	Hymenodictyon excelsum	Rubiaceae
6	Celastrus paniculata	Celastraceae
7	Ougenia dalbergiodes	Papilionaceae
8	Acacia catechu	Mimoceae

Source FORI (WGFP)

Section 8.
ENDEMIC SPECIES.

333. Endemic species are the ones that are confined in their indigenous occurrence to a particular region. Such species are to be preserved for their genetic diversity. Some of the important Endemic species found in Sagar division are given below:

Endemic species.

Sl No.	Name of the species	Family
1.	*Actinodaphne angustifolia*	Lauraceae
2.	*A. hookeri*	Lauraceae
3.	*Aglaia barberi*	Meliaceae
4.	*Artocarpus hirsuta*	Moraceae
5.	*Beilschmiedia wightii*	Lauraceae
6.	*Calophyllum apetalum*	Clusiacea
7.	*Cinnamomum malabaricum*	Lauracdeae
8.	*Diospyros angustifolium*	Ebenaceae
9.	*Diospyros candolleana*	Ebenaceae
10.	*Diospyros paniculata*	Ebenaceae
11.	*Dipterocarpus confortifolius*	Dipterocarpaceae
12.	*Dysoxylum malabaricum*	Meliaceae
13.	*Flacourtia montana*	Celastraceae
14.	*Garcinia gutta*	Clusiacea
15.	*Garcinia indicia*	Clusiacea
16.	*G. malabaricum*	Clusiacea
17.	*Garcinia talboti*	Clusiacea
18.	*Garcinia obtusa*	Teranstroemiaceae
19.	*Holigarna*	Anacardiaceae
20.	*Holigarna grahamii*	Anacardiaceae
21.	*Hopea parviflora*	Dipterocarpaceae
22.	*H. ponga*	Dipterocarpaceae
23.	*Hydnocarpus pentandra*	Flacourtiaceae
24.	*Ixora brachiata*	Rubiaceae
25.	*Kingiodendron pinnatum*	Fabaceae
26.	*Knema attenuata*	Fabaceae
27.	*Litsea floribunda*	Lauraceae
28.	*Litsea laevigata*	Lauraceae
29.	*Litsea mysorensis*	Lauraceae
30.	*Mastixia arborea*	Coronaceae
31.	*Melogyne pannosa*	Annonaceae
32.	*Memecylon malabaricum*	Melastomataceae
33.	*Memecylon talbotianum*	Melastomataceae
34.	*Myristica fatua var. mangifolia*	Myristicaceae
35.	*Pinanga dicksonii*	Aracaceae
36.	*Polyalthia fragrans*	Annonaceae

37.	*Paychotria dazelli*	Rubiaceae
38.	*Pterospermum reticulatum*	Rubiaceae
39.	*Syzygium lanceolatum*	Rubiaceae
40.	*Syzygium malabaricum*	Rubiaceae
41.	*Syzygium zeylanicum*	Rubiaceae
42.	*Spondias indica*	Sapindaceae
43.	*Symplocos macrocarpa*	Symplocaceae
44.	*Vateria indicia*	Dipterocarpaceae

Section 9.
MAINTENANCE OF BUILDINGS.

334. The division has a large number of buildings including residential houses, rest houses, office buildings, seed storage sheds etc. which were constructed over the years. Due to paucity of funds many of these assests have not been maintained well and some of these are in dilapidated condition. These need to be repaired and regularly maintained. It is suggested that at least one percent of the financial allocations of the division should be towards maintenance of these buildings.

Section 10.
AREAS TO BE NOTIFIED UNDER SECTION 4.

335. An extent of 7219.94 ha of revenue lands was handed over by the Revenue department to the Forest department as per Government order No. 32LAD 62 dated 1.8.1964 and 6.7.1965. These areas need to be notified under Section 4 followed by Section 17- of the Karnataka Forest Act. 1963. The details of areas are given in **Annexure- 20**.

Section 11.
AREAS TO BE NOTIFIED UNDER SECTION 17.

336. The following areas have been already notified under Section 4 and need to be notified under Section 17.

Hosanagar taluk – 16,449.63 ha.
Sagar taluk – 6,494.84 ha.
Shikaripura taluk – 470.68 ha.
Soraba taluk – 3456.41 ha.
Shimoga taluk (portion of Sagar division) – 279.83 ha.
Total extent – 27,151.39 ha.

337. Forest Settlement Officer should take appropriate action to get the final notifications issued. Details are given in **Annexure-21**.

338. At this stage detailed prescriptions cannot be prescribed as there are many encroachments in the areas and some portions are likely to be deleted at the time of settlement.

339. These areas have to be treated as per the prescriptions under the JFPM or Afforestation and plantations management working circles depending upon their priority and site needs. The Deputy Conservator of Forests, Sagar should plan accordingly after the issue of notifications under Section 17 covering the above areas.

Section 12.
REGULARIZATION OF FOREST LANDS ENCROACHED PRIOR TO 1978.

340. Government of India vide letter No. 8-50/95 dtd 15.5.1996 has accorded approval for regularisation of 1401.62 hectares of forest lands in the division in favour of 2216 persons who had encroached these lands prior to 1978. The beneficiaries, the exact extent of lands encroached and their locations in forests should be verified carefully before regularizing the forestlands.

Section 13.
MAINTENANCE OF PLANTATION JOURNALS.

341. Plantation journal is not a control record but its maintenance becomes absolutely necessary to know the historical accounts of the plantations raised. As stipulated in the Karnataka Forest Code, Plantation journal has to be maintained for each plantation raised. Perusal of the plantation journal gives a total account of the plantation, starting from raising to the final harvest. It should therefore be ensured that in the division plantation journals are opened as soon as new plantations are formed and posted up to date by the concerned Range Forest officers. Besides, the Deputy Conservator of Forests should prepare a compendium of plantations at the end of the year showing the exact location of the plantations in the village maps with number of the forest compartment, extent and year of formation etc., The compendium of plantations should be prepared in the prescribed format, as indicated in **Annexure-22**.

Section 14.
REGISTER OF DEVIATIONS FROM THE WORKING PLAN.

342. Working Plan prescriptions are given depending on the requirement of the area based on the inventory analysis and keeping in view the policy guidelines. However, certain local conditions may warrant deviations from the prescriptions given in the plan. Under such circumstances, the jurisdictional Deputy Conservator of Forests should write to the Chief Conservator of Forests, Working Plans giving justification for such deviations and seek permission for such deviations. Only after receipt of approval from the Chief Conservator of Forests, Working Plans, Deputy Conservator of Forests should implement the deviations. While doing so, the Deputy Conservator of Forests will record in the register called Register of Deviation from the Working Plan.

343. At the end of the year, a consolidated statement of deviations made in the Division will be submitted by the Deputy Conservator of Forests to the Chief Conservator of Forests, Working Plans in the Performa as given in **Annexure-23**.

Section 15.
CONTROL MAPS.

344. Control maps should be maintained on blank copies of 4 inch or 8 inch to a mile scale maps. Two copies of each map should be kept posted up, one in Range Forest Office and the other in Division office. Once in a year the Range Forest officer should send the map maintained in his office to the Division office Details from this map are then marked in the map maintained in the Division office. The control map should show the boundaries of exploited compartments conservation areas, plantations, thinned areas, tending and regeneration areas. The locations of wells, tanks, buildings, fire lines should also be shown.

Section 16.
ESTABLISHMENT OF STATISTICAL SECTION.

345. Generally, it is observed that in each division, the compilation of information is far from being satisfactory. The staff of the division who are supposed to compile and update the records are busy in their routine works such as protection and afforestation programs. Consequently, compilation of various statistics of the division is neglected. Introduction of user-friendly software packages and installation of sophisticated equipment for compilation of data and analysis of the data collected would help in updating records. Qualified statistical personnel with requisite computer application knowledge should be employed in each division or drawn on deputation basis from the Statistical department to update records.

Section 17.
SURVEY AND PREPARATION OF MAPS.

346. Forests are being surveyed based on 8 inch to a mile village maps and 4 inch to a mile Topo-sheets depicting the forest details. For Sagar division, the Topo-sheets of 1:50.000 scale only are available. This scale is too big to view all the minor details such as survey numbers. Therefore, it is suggested that 1:25.000 and 1: 15.000 Topo-sheets should be procured from the Survey of India.

Section 18.
BEAT AND SECTION BOUNDARIES.

347. It is noticed that Beat and Section boundaries are not delineated on the ground. In the absence of clear-cut Beat and Section boundaries, the concerned Beat and Section foresters are totally unaware of their exact territorial Jurisdiction. This hampers smooth administration and results in loss of accountability, controlling of smuggling also becomes difficult. It is suggested that the issue of delineating proper Beat and Section boundaries should be immediately attended to by the Deputy Conservator of Forests and comprehensive proposal should be got approved from the competent authority before carrying out actual demarcation in the field.

Section 19.
BEAT AND SECTION BOOKS.

348. Beat and Section books are supposed to be maintained by the Beat guard and Section forester respectively for their jurisdictional Beat and Section. At present this is not being done. Immediate action should be taken to get these books printed and distributed among the concerned officials with instructions to make necessary entries as and when required. These books should be provided along with Beat Section maps, which should be cloth mounted with laminations to avoid spoilage.

Section 20.
RAISING AND MAINTENANCE OF SEEDLING SEED ORCHARDS AND CLONAL ORCHARDS.

349. Seedling seed orchards or clonal Orchards are necessary for the production of genetically superior seeds, which contribute to improved productivity of plantations. There are no seedling seed orchards or clonal orchards raised by the Forest department in Sagar division. However, following seedling seed orchards/ clonal orchards have been raised and maintained by the Mysore Paper Mills (MPM) Ltd. In order to get superior seeds, pollination between the superior genotypes is essential. Any inferior tree existing within the orchards should be removed. Failure to remove such inferior types would defeat the very purpose for which superior genotypes are raised.

1. Seedling seed orchard of *Acacia auriculiformis* Spring vale provenance raised in 1993- 6 ha at Mumbar (also known as Bysagunda).
2. Seedling seed orchard of *Acacia auriculiformis* Morehead river provenance raised in 1993 – 5 ha at Mumbar.
3. Seedling seed orchard of *Pinus caribaea* raised in 1984 – 3.2 ha at Mumbar.
4. FAO ex-situ Gene conservation plot of *Pinus caribaea* - 4 ha raised in 1985 at Behalli.

Source: MPM research Unit

Section 21.
MANAGEMENT OF KAN LANDS.

350. A brief history about the Kan lands of Sagar division has been given in chapter V. From the history of the Kan lands, it is evident that the Unoccupied Kans have to be dealt with as Reserved forests. Some of the Kan lands have been notified as Reserved forests in recent years. It is desirable that the balance areas are also notified as Reserved forests for effective management.

351. It is necessary to verify the present status of the Kan lands in consultation with the Revenue department and after thorough examination of the legal records. The Revenue department should also be requested not to regularise the encroachments in the Kan lands.

352. Details of Kan lands and their present status are given in **Annexure – 24**.

Section 22.
MANAGEMENT OF CANE.

353. Cane, commonly called Betha in Kannada, belongs to the family Palmae or Arecaceae. Two types of canes found in Sagar division and are confined to evergreen and semi-evergreen forests only. Cane is a precious commodity for artisans. It is used in the handicrafts industry to produce furniture and various other ornamental items. Cane is distributed in Nagara and Kargal ranges in the Jog, Kudurur, Karni and Talakaiale State forests. Most of the cane growing areas of Sagar division is now in Sharavathi valley wildlife sanctuary where no extraction is permitted.

354. Details of extraction of canes in the past are as follows.

Extraction of canes in Sagar division.

Range	Year to Extraction	Area of Extraction Village / Sy.No.	B1 / Compt		Quantity Extracted	Green / Dry	How disposed off	Remarks
Kargal	1992-93	Kattinkar		B	Nil			
				S	21130			
	1994-95			B	Nil			
				S	33350			
	1996-97			B	3100			
	1993-94	Goverdanagiri SF		B	49550		By allotment	
				S	60932			
Kargal Range	1994-95	Goverdanagiri SF		B	3000		By allotment	70 Beneficiries
				S	4000			
	1995-96	Goverdanagiri SF		B	500			Special compon
				S	170			ent SC/ST
	1996-97	No cane extraction done during the year.						
	1997-98	No cane extraction done during the year.						
					Total B-56150			
					Total S-119582			

355. Further, there is a lot of illicit cutting in the division, which has to be checked with constant vigil.

356. In order to assess the growing stock of cane, inventory was carried out in Kargal range over four sample plots each of one hectare. The stocking was found to be as follows:

SP. No.	Big cane	Small cane	Total
1	35	309	344
2	33	282	315
3	19	265	284
4	25	240	265
	112	**1096**	**1208**

357. On an average 302 clumps per ha are noticed as per inventory carried out. This number is satisfactory and limited extraction of cane may be considered. Cane over 20m length could be extracted at a rotation of 5 years in Jog and Kudurur State forest at 2.5 canes/ha.

358. Cane is proposed to be planted in suitable areas of Kargal range at the rate of 20 ha annually to enrich the existing resource. Cane must be necessarily planted in areas after extraction of cane.

Nursery and planting techniques of cane.

359. Mature fruits of cane have to be collected in the months of May-June. Hard seed coat should be removed by brushing with sand gently or by washing with water to help in early germination. Seeds are directly sown in polythene bags filled with ingredients. Seeds may also be directly sown in the beds and transplanted to polythene bags after germination. Seedlings reach about 40 cms height in one year.

360. At least two-year-old seedlings should be planted for better results. Seedlings should be planted in 50 cm^3 pits at 5 m x 5 m espacement.

Section 23.
MONITORING AND EVALUATION.

361. Monitoring and evaluation is essential to ascertain the implementation of the plan both quantitatively and qualitatively. It also provides scope for setting right things that have gone wrong. Keeping this in view, it is prescribed that a monitoring and evaluation committee/team under the chairmanship of the Deputy Conservator of Forests, Working Plans and comprising of members drawn from various wings of the department will undertake the task of monitoring and evaluating the implementation of the Plan annually.

CHAPTER XVI.

SUMMARY OF PRESCRIPTIONS.

Sl. No	***Details***	***Prescriptions***	***Page No***
1	*Name of the Working Plan*	*Working Plan for the Forests of Sagar forest division.*	
2	*Detail area of forests of Sagar division (including wildlife areas)*	***State forest – 1,10,108.07 ha***	
		Minor forest – 21,102.24 ha	
		Reserved forest – 13,246.64 ha	
		Timber reserve – 174.03 ha	
		Sandal reserve – 2,091.37 ha	
		Wooded block – 678.07 ha	
		Plantation – 428.98 ha	
		Total 1,47,829.40 ha.	
3	*Area of the Plan*	**Forest proper – 1,16,754.27 ha** ***Section 4 notified area – 27,151.39 ha*** ***Non-forest area (plantn.) – 3,533.46 ha*** *Total 1,47,439.12 ha*	*4-5*
		(21,183.86 ha in Sharavathi wildlife sanctuary 6396.77 ha with KFDC Ltd and 3494.50 ha with MPM Ltd have been excluded from the Plan area)	
4	*General Objects of Management*	*(1) To maintain environmental stability and ecological balance by adopting measures to protect, preserve and enrich the existing natural forests with variety of flora and fauna.* *(2) To apply a system of management which will ensure maximum degree of protection to soil and maintain the forest cover in good condition.* *(3) To maintain or improve natural and man made forest structure and growth in non-degraded areas to ensure long term sustainability of forest production.* *(4) To rehabilitate and increase the economic value and utility of the degraded forests.* *(5) Consistent with the above objectives, to ensure sustainable use of forests to meet the needs of the people, especially the rural and tribal people, living in the vicinity of forests.*	*34-35*

		(6) To encourage tree planting in private lands to meet the local demand of forest produce to a great extent from these areas. *(7) To create a massive awareness movement and to ensure people's participation and involvement in all round protection and development of forests.*	
5	*Formation of Working Circles*	*Seven working circles and miscellaneous regulations.*	*37-38*
6	*Period of the Plan*	*2001-02 to 2010-11 (Ten Years)*	*38*
7	***1. Bio-diversity conservation working circle***		*39-52*
		Total area-33, 336.56 ha (Bio-diversity hot-spots management – 22,193.07 ha, Eco-tourism management – 2986.30 ha, Ground water recharge and water harvesting structures – 8157.19 ha.) *(1) To protect the forests, to maintain the environmental stability and restore the ecological balance wherever it has been disturbed.* *(2) To conserve the biological diversity and to protect, improve and conserve the habitat of many endangered and endemic flora and fauna.* *(3) To provide adequate protection to the precipitous ghat slopes and the catchment areas of the streams and rivers with a view to conserve soil and moisture.* *(4) To foster environmental awareness among the public in general and children/students in particular.* *(5) To maintain and develop, to the extent considered necessary, facilities for the purpose of tourism, recreation, education and scientific exploration.*	
	Prescriptions.	• *Rigid protection from fire, grazing, encroachment and theft.* • *No extraction of timber, firewood and minor forest produce.* • *Soil conservation measures.* • *Awareness creation.*	

		• *Ecological studies.* • *Eco tourism activities.* • *To facilitate ground water recharge and water harvesting.*	
8	***2. Rehabilitation of degraded forests working circle***		*53-54*
	Objectives: ***Prescription.***	***Total area-17,536.15 ha*** *1. To check soil erosion and soil degradation.* *2. To enrich the fertility of the soil thereby increasing the productivity of the area.* *3. To conserve soil moisture and increase the water table.* *4. To cloth the area with vegetal cover.* *5. To improve the quality and quantity of root stock regeneration.* • *No extraction of natural growth.* • *Rigid protection against fire, grazing and illicit felling.* • *To encourage and assist natural regeneration.* • *Enrichment planting with indigenous species.* • *Dibbling of seeds of local species including in bushes and furrows.* • *Soil and water conservation works.* • *Planting of Agave in drier localities.*	
9	***3. Improvement working circle***		*55-63*
	Objectives:	***Total area – 34075.46 ha.*** *1. To maintain environmental stability through preservation and restoration of ecological balance.* *2. To conserve natural flora and fauna.* *3. To check soil erosion and denudation in the catchment areas of rivers flowing across these forests.* *4. To maintain or improve natural forest structure and growth in non-degraded areas to insure long term sustainability of forest production.*	

	Prescription.	*5. To increase the productivity of natural forest and to make degraded forest areas productive.* *6. Consistent with the above objectives, to ensure sustainable use of forests to meet the needs of the people by salvaging the dead and fallen material.* • *Removal of only dead and fallen material is permitted.* • *Felling cycle is for ten years.* • *Rigid fire protection is to be provided to the area.* • *After salvaging of dead and fallen material, artificial regeneration is to be taken up wherever natural regeneration is not adequate.*	
10	***Bamboo overlapping working circle.***		*64-68*
	Objectives: ***Prescription.***	***Total area – 16,276.76 ha.*** *1. To manage the bamboo forests on sound silvicultural principles to enhance the productivity thereby improving the growing stock.* *2. To ensure sustained supply of bamboo to various users consistent with the principles of sustained use of forests giving priority to rural population, local artisans and to the cottage industries.* • *Felling cycle of three years has been prescribed.* • *Decongestion Bamboo clumps is to be done on top priority.* • *Extract only two years and above culms in a clump by retaining minimum of twelve culms / clump.* • *Culms should be cut at a height of 6" to 18" from the ground level.* • *The retained culms should be distributed uniformly over the entire clump in such a way that young shoots get enough of support and the clump is kept open and workable.*	

		• *Felling in the periphery is to be totally avoided. Felling should start from centre and proceed out wards.* • *All the malformed, dead, diseased or otherwise useless culms should be removed on priority.* • *Culms and clumps in flower should be cut only after the seeds fall.* • *In hilly areas cutting in clumps should be done from downhill side.* • *The period of exploitation should be between 15th October and end of February.*	
11	***5. Afforestation and plantation management working circle***		*69-83*
	Objectives:

		• *Casurina plantations to be harvested and replanted.* • *Encroached areas to be planted up as and when these are evicted.* • *Areas notified under section-4 of the Karnataka Forest Act, 1963 are to be managed as and when these are notified under Section-17 of the Act.* • *Plantations with the KFDC (2679.61 ha) to be managed by the Corporation on the basis of approved Management Plan.* • *Plantations with the MPM Ltd (5796.33 ha) to be managed by the Company on the basis of approved Management Plan.*	
12.	***6. Sandalwood overlapping working circle***		*84-93*
		Total area – All ranges (761.09 ha exclusively allotted to the working circle).	
	Objectives :	*1. To provide strict protection to sandal bearing areas from fire, grazing and theft.* *2. Increase the productivity of Sandal by artificial plantations.* *3. To augment sustained supply of Sandalwood.*	
	Prescriptions.	• *Increase the Sandal production on sustainable supply. Raise Sandal plantations on estate concepts.* • *Encourage farmers to grow Sandal trees in their private agriculture land.* • *Prompt payment of Sandal bonus to private holders.*	
13	***7. MFP overlapping working circle***		*94-101*
		Total area – All ranges.	
	Objectives:	*1. To ensure sustained use of forests by streamlining the collection of MFP on scientific basis compatible with sound silvicultural principles.*	

	Prescriptions.	*2. To involve the local people, especially communities living in and around the forest areas, in the management of resources.* *3. To motivate and train the forest dependent communities in protection, improvement, harvesting and disposal of MFPs including non destructive collection, processing and marketing of value added products.* *4. To meet the local requirement and raw material for cottage industries. And to encourage cottage industries to generate employment for the local people.* • *To provide protection to the existing crop.* • *Involve VFCs for collection of NTFPs and train them in scientific method of collections without injuring the parent plants.* • *Providing marketing facilities of NTFP to VFCs and make them sustainable.*	
14	***Miscellaneous regulations***		*102-118*
		1. Forest Protection *(a) Rehabilitation of forest encroachment* *(b) Protection from fire.* *(c) Protection from smuggling, illicit cutting etc.,* *(d) Protection from grazing.* *(e) Protection from weeds* *(f) Pests and diseases* *(g) Poaching*	*102-106*
		2. Joint Forest Planning and Management	*106-108*
		3. Social forestry activities	*108-110*
		4. Establishment of permanent sample plots	*110*
		5. Maintenance of forest boundaries.	*110-111*
		6. Updating of forest records in revenue registers.	*111*
		7. Conservation of Rare, Endangered and Threatened (RET) species.	*111*
		8.Endemic species.	*112-113*
		9. Maintenance of buildings.	*113*

		10. Areas to be notified under Section 4 of KFA, 1963.	*113*
		11. Areas to be notified under Section 17 of KFA, 1963.	*113-114*
		12. Regularisation of forest lands encroached prior to 1978.	*114*
		13. Maintenance of Plantation Journals	*114*
		14. Register of deviations from Working Plan	*114*
		15. Control Maps	*115*
		16. Establishment of statistical section.	*115*
		17. Survey and preparation of maps.	*115*
		18.Beat and Section boundaries.	*115*
		19.Beat and Section books.	*116*
		20. Raising and maintenance of seedlings seed orchards and clonal orchards.	*116*
		21. Management of Kan lands.	*116*
		22. Management of Cane	*117-118*
		23. Monitoring and evaluation.	*118*

Annexure – 1

Daily Minimum, Maximum and Mean annual temperature in centigrade of the Sagara Division from 1991 to 1998.

Months	1991			1992			1993			1994		
	Min	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
January	-	-	-	-	-	-	13.40	29.90	21.60	16.40	29.80	22.50
February	-	-	-	16.40	31.50	23.90	14.40	31.20	22.80	16.60	31.40	23.50
March	-	-	-	18.50	35.00	26.70	18.40	33.50	25.90	19.70	34.60	26.00
April	-	-	-	20.30	36.10	28.20	21.20	36.30	28.70	22.10	34.50	28.50
May	-	-	-	22.40	33.00	27.70	22.00	35.00	28.50	23.10	34.60	29.00
June	23.40	29.50	25.29	21.40	28.80	25.10	22.00	29.00	27.00	21.90	27.30	24.60
July	22.20	25.20	23.70	21.40	25.80	23.60	21.70	26.00	24.50	21.20	24.70	22.90
August	22.40	24.20	23.30	21.00	25.90	23.40	21.00	25.00	24.00	21.50	25.50	23.50
September	20.80	28.40	24.50	20.30	27.50	23.90	21.00	26.00	24.50	20.30	28.70	23.50
October	20.80	30.90	25.80	20.20	29.00	24.60	28.00	28.00	24.50	20.80	28.90	25.50
November	19.00	28.70	23.80	18.50	28.00	23.20	19.00	28.00	23.70	18.60	27.50	21.00
December	15.80	29.10	22.40	16.80	27.70	22.20	16.00	27.00	21.00	14.40	28.50	20.50

Months	1995			1996			1997			1998		
	Min	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
January	14.30	25.80	21.00	15.80	30.40	22.50	16.00	32.00	21.50	17.70	30.20	23.40
February	17.00	32.10	25.00	16.40	31.70	23.00	14.30	31.30	25.00	17.30	31.30	23.30
March	19.00	32.50	25.50	19.40	35.20	26.50	18.80	34.40	25.50	19.40	34.80	26.10
April	21.30	35.50	28.00	21.70	35.00	24.00	20.70	34.20	27.50	22.50	37.10	28.60
May	22.40	32.60	28.00	21.70	35.80	29.50	22.70	33.50	28.00	23.80	34.70	29.00
June	22.60	30.50	28.00	22.40	30.60	28.50	22.30	29.80	28.00	23.40	29.50	29.80
July	21.80	25.60	23.70	21.80	26.70	26.00	22.10	25.50	25.00	22.60	26.40	25.70
August	22.30	27.30	25.50	21.60	25.60	25.00	22.10	26.90	23.50	22.60	26.80	25.80
September	21.70	27.40	25.00	21.70	27.70	25.00	21.60	24.80	28.50	22.90	27.20	24.70
October	21.00	27.40	24.00	20.70	29.20	24.00	21.90	29.20	25.50	23.00	28.20	24.00
November	18.30	32.30	23.00	19.40	29.20	23.50	21.00	28.60	25.00	19.30	28.50	21.00
December	14.60	29.00	21.00	16.30	27.90	27.90	29.30	27.00	20.60	14.70	26.50	20.70

Annexure – 2
Rainfall data collected from 1989 to 1998 in Sagar Division (Data given in mm)

Sl No	**Range Location**	**Year**									
		1989	**1990**	**1991**	**1992**	**1993**	**1994**	**1995**	**1996**	**1997**	**1998**
1	Shikaripura	724.5	695.5	1265.0	1388.2	981.0	1034.0	748.7	762.8	1064.6	910
2	Ambligola	811.03	765.2	1352	1478.2	1069.4	1192	818	836	1170.2	991.3
3	Sagar	-	-	2324	2571	2025.8	2592.4	1731.2	1647.6	-	-
4	Hosanagar	2291.3	2822.6	3025.3	2825.3	3116.2	5001.4	3921.6	2175.3	3596.4	4079.4
5	Shiralakoppa	725.5	696.5	1263	1385	980.0	1082.1	749.3	762	1062.3	908
6	Nagar	4295	5719	4857	5287	4577	5461	3588.6	4372.2	6068.4	5107
7	Anandpuram	800.5	750.5	1365.3	1488.1	1010.8	1220.6	848.7	862.6	1016.7	1066.0
8	Sorab	1267	1536.8	1721.9	2091.8	1452.8	1902.6	1151.8	1227.1	2259.4	1856.3
9	Anavatti	1094.1	1310	1456.1	1564.5	1356.9	1239	1050.7	1340.3	1210.5	1494.2
10	Kargal	3801.5	4343.4	3588.8	3861.2	3122.0	4196.3	3220.6	3102.4	3703.3	3728.5
	TOTAL	**15810.4**	**18639.5**	**22218.4**	**23940.3**	**19691.9**	**24921.4**	**17829.2**	**17088.3**	**21151.8**	**20140.7**
	Avg	**1756.7**	**2071.1**	**2221.8**	**2394.0**	**1969.2**	**2492.1**	**1782.9**	**1708.8**	**2350.2**	**2237.9**

ANNEXURE – 3

Statement showing the distribution of forests Range / Section / Beat wise

Sl. No	Range	Sections	Beat	Forest
1	2	3	4	5
1.	Sagar	Town Checking	1 &2 Town Checking	-
		Sagar	Beemneri	Beemneri Kans & DFs.
			Kalkoppa	Kalkoppa RF, Kans & DFs.
			Nadamanchale	N. Kans, Nadalari Kans & DFs.
			Ullur	Ullur RF, Ullur Kans & DFs.
			Lingadalli	Kan, Madsur Kans & DFs.
		Keladi	Keladi	Keladi Kan, Malve kan, Sangala kan DFs Shiravala kan.
			Nasur	Adaranthe, Kans & DFs, Bellur kan, Chikka nellur kan, Masur kan.
			Hirenellur	Hirenellur kan, Shuntikoppa kan, & all DFs
		Talaguppa	Iduvani	Iduvani RF & all DFs, Hiremane Kans and DFs.
			Bellenne	Bellenne RF, Bellenne Kan, Hosahalli kan.
			Kanle	Kanle kan & DFs, Sydur kan tadalale kan.
			Siruvanthe	Baradavalli kan, Dobme kan, Hulkod kan, Hosakoppa kan, Kugve kan, Kandika kan, Sasaravalli kan.
		Avinahalli	Keggodu	Bilagodu kan, Aebbaruge jab & akk DFs.
			Avinahalli	Brahmanabedur kan, Nedavaddalli kan, Udri kan.
			Genasinakini	Genasinakini kan, Aeggathi kan, Sathalu kan & DFs.
			Ambargodlu	Besur kan & all DFs, Gulehalli kan, Hebbasi kan.
		Tyagarthi	Tyagarthi	Lavagiri DFs, Nargodu DFs & all DFs.
			Jambani	Baruru DFs Guthadhalli DFs Jambani kan, Mulkere DFs.
			Bilisiri	Bilisiri MF, Bilisiri kan, Hlavagodu DFs.
		G.T.D. Sagar	F.Guards	-
		Firewood depot Sagar	3 Nos.	-
2.	Kargal	Kargal	Kargal	Attigodu RF & sholas.
			Talakalale	Talakalale RF.
			Jog	Jog RF, Linganamakki RF, Talakalale RF, Kargal RF.
			Aralagodu	Aralagodu RF & sholas, Mandavalli DFs.
		Kogar	Kogar	Bandkani kan & sholas.
			Bilegar	Bilegar kan, Muppane kan & RF.
			Karni	Chennagonda kan & sholas, Karni RF.

1	2	3	4	5
			Kannur	Govardhanagiri RF & sholas.
		Nagavalli	Megane	Govardhanagiri RF & sholas.
			Nagavalli	Govardhanagiri RF & sholas.
			Checking gate Nagavalli F. Guards	
		Tumri	Tumri	Singalale kan & sholas, Chennagonda RF.
			Karur	Bobbige kan, Karuru kan, Kudruru RF & kans & sholas.
			Shankanna shanbhog	Hegsara kan and sholas, Shankanna shanbhog kan.
3.	Hosanagar	Kasaba	Town checking	
			Kalikapura	Jenni RF and kans
			Sharminavathi	Sharminavathi RF kans & DFs.
			Kolagi	Kolagi RF colagai RF, Kans and DFs.
			Kargadi	Haniya RF, Kans & DFs, Sharavathi.
		Bette mallappa	Bette mallappa	Kans and DFs.
			Purappemane	Kans and DFs.
			Maruthipura	Kans and DFs.
		Rippanpete	Rippanpete	Kans and DFs.
			Jamballi	Haridravathi RF (P), kans & DFs Jamballi RF.
			Haridravathi	Haridravathi RF (P) kans & RF>
			Kodur	kodur RF (P), DFs.
		Humcha	Humcha	Kans & DFs.
			Bileswara	Kans & DFs.
			Sonle	Sharavathi RF (P) and Kans.
		G.T.D Hosanagar	-	-
		Firewood depot Hosanagar	-	-
4.	Nagar	Nagar	Nagar	Kodasi RF, Kans, DFs.
			Devagange	Devagange RF. Kans and DFs.
			Killandur	Killandur RF (P), Kans and DFs.
		Nittur	Nittur	Chakra RF. Kodachadri RF, Kans & DFs.
			Mattimane	Killandur RF (P), Mattikai RF (P) Kans & DFs.
			Adugodi	All kans and DFs.
		Yedur	Yedur	Hanibyle RF, Varahi, and DFs.
			Kavaledurga	Kavaledurga RF and all DFs.
			Hulikal	
		Nagodi Checking gate	F. Guards	-
		Hulikal checking gate	F. Guards	-
5.	Anandapuram	Chordi	Chordi	Chordi MF, Sannivasa MF and DFs.
			Koragi	Koragi RF and DFs.

1	2	3	4	5
			Tuppur	Gilalgundi RF, Konehosur MF & D's. Tuppur MF.
			Gilalgundi	Gilalgundi RF and DFs.
		Anandapuram	Anandapuram	Kans and DFs.
			Adur	Adur MF, Kans & DFs.
			Iginabylu	Chipli SF, Kans & DFs.
			Malali	Malali RF, Malali kans and all DFs.
			Nichadi	Kans and DFs.
		Gowthampuram	Chipli	Byrapura MFs & DFs, Chipli RF & MF.
			Kanoor	All DFs.
			Gowthampuram	Malandur RF and kans.
			Hireharka	Hireharka MF, Kans and Karadibetta RF.
		G.T.D. Kumsi	F. Guards	-
6.	Shikaripura	Kasaba	Town checking	-
			Kasaba	Sadashivapura RF and DFs.
			Begur	All DFs.
			Bagaakatte	All DFs.
			Checking gate	-
			Kittadahalli	-
			F. Guards.	Not mentioned.
		Chandrakala	Jakkanahalli	Chandrakala RF and DFs.
			Bogi	Chikkajambur MF, Kodikoppa MF & DFs.
			Suraginahalli	All MFs and DFs.
		Hosur	Hosur	All MFs and DFs.
			Gogga	Gogga RF and all DFs.
			Balur	Kaginahalli MF, plantation & DFs.
			Naligikoppa	Gangavanasara RF (P) and DFs, Nilaginakoppa RF
			Checking gate	-
			Jekkinakoppa	-
			F. Guards.	-
		Haragoppa	Haragoppa	Gangavanasara RF (P) & DFs, Haragoppa MF, Jog MF.
			Yerekatte	All MF, Taralagatte MF, Yerekatte RF, MF & DFs.
			Markande	All MFs, DFs, Markande RFs and DFs.
		G.T.D. Shikaripura	-	-
		Firewood depot Shikaripura	-	-
7.	Ambligola	Ambligola	Ambligola	Ambligola MFs and DFs.
			Belandur	Belandur RFs, Kans & DFs.
		Churchgundi	Churchgundi	All DFs & kans.
			Hithla	Kardibetta RF and DFs
			Gama	Not mentioned.
			Checking gate	-

1	2	3	4	5
			Churchgundi 2 Nos.	-
		Kalmane	Kalmane	Karadibetta (P), RF (P) & DFs.
			Kattigehalla	Karadibetta (P) and RF.
			Harishanagere	Karadibetta (P).
		Salur	Salur	All DFs.
			Sanda	All DFs.
			Mudaba -Siddapura	Belandur RF (P) and DFs.
8.	Sorab	Kasaba	Town checking	-
			Halagalale	Chimanur MFs, Halagalale RF, Heggodu MFs Hireshakuna, Halagalale kan, Hireshanuna kan, & all DFs, Kodakani MF.
			Yelsi	Hale sorab DFs, Kudaragani DFs, Nadahalli MF & DFs Thandige MFs, Otar DFs. Yelsi kan, Yelsi MFs.
			Hiriyavahalli	Andige kan & all DFs, Chickkasava kan & DFs Hiriyavahalli RF .
		Hosabale	Hosabale	Hosabale MF, Konanakatte kan, Kakkarasi kan & all kans, DFs, Mutaguppe kan, Maggadi kan, N.Ddderi kan, Umatagadde MFs & all DFs & kan, Veeranapura.
			Kadsur	Absi RF, MF, kan, Andavalli kan & all DFs. Hechi MFs.
			Gunjanoor	Anakaravalli MFs Gunganoor RFs, Kantanahalli MF & all kan & DFs.
		Ulavi	Karjikoppa	Jamballi MF, Karjikoppa RF, Kaisodi MF, Mysavi RF.
			Kyasanoor	Bhadrapura MF, Dugur MF, Kyasanur MF, & RF and kan, Kerekoppa kan and all DFs, Talkalkoppa kan.
			Avalagodu	Avalgodu RF, Kuppa kan, Ulavi kan and all DFs.
		Chandragutti	Chandragutti	Chandragutti RF, MF and DFs.
			Nyarsi	Bennur kan, Karnalapur MF, Nyarsi MF & kan, pura kan & all DFs.
			Harishi	Harishi RF & kans, Kuntagalale RF, Mangalore kan & all SF's.
			Idur	Idur RF, Kamarur MF kan & DFs.
			Checking gate Idur	-
			F. Guards	-
		Firewood depot Sorab	-	-
9.	Anavatti	Anavatti	Town checking	-
			Anavatti	Betttadakurali RF (P), Hirehidagodu MF & DFs, Nagavadi MF, Neralige MF & DFs.
			Hurali	SR, Kodihalli MF and all DFs & Tallur MFs
			Bettadakurali	Bettadakurali RF (P), Hyga MFs, Hasavi MFs, Kanthanahalli MFs & all DFs.
			Chikkidagodu	All DFs.

1	2	3	4	5
		Kuppagadde	Kuppagadde	All DFs & kans, Kuppagadde RFs & kan, Korkodu kan, Bommanahalli kan, Nittakki kan.
			Tekkur	All DFs, Gudavi kan, Hosur Agrahara kan, Kalambi DFs, Kulaga kan, Sare Morur kan, Sampagodu kan, Tekkukr MF.
			Tavanandi	All DFs & kans Bilavagodu kan, Dodderi koppa kan, Tavanandi kan, MF & RFs.
		Jade	Jade	Kamarur MF & all DFs Talagadde RFs.
			Talagadde	Kodikoppa MF & DFs, Talagadde MF, RF & all DFs.
			Alahalli	Bilagi SR, & all DFs, Suragi MFs and all DFs Talagadde RF (P)
			Siddihalli	Kotekoppa MF & DFs, Kathur MF, Siddihalli Teak plantation, Talguppa MFs.
			Kerehalli	Puttanahalli Teak plantation & DFs.
		Firewood & G.T.D. Anavatti	F. Guards	-
10	Shiralkoppa	Shiralkoppa	Town checking	-
			Iduvalli	Honavalli kan & DFs, Iduvalli kans & MFs.Syadalkoppa RF & MF.
			Shigga	Arekoppa RF, kans & DFs, Shigga RF & kans.
			Mavali	Guddahosahalli RF & MF & kans, DFs, Shivapura MF.
		Togarsi	Togarsi	Kodihalli MFs & DFs, Togarsi RFs & DFs.
			Udri	Devathi koppa MF, Gudde koppa MF, kans & DFs.
			Kavali	Bilaki MF, Bisalahalli MF & DFs Kavali RF.
	Shiralkoppa	Sunnadakoppa	Koratigere	Basavanandihalli RF, MF & DFs.
			Sunnadakoppa	-
			Checking gate.	-
			F. Guards	-
			Malavalli	All DFs & kans.
			Talagunda	Manchikoppa (P) MF, Udugani MF, kans & DFs.
		Udugani	Hirejambur	Manchikoppa (P) MF, Udugani MF, kans and DFs.
			Adaganti	Adaganti MF,l Muttagi MFs & DFs.
			Kavadi	Chikkasavi RF (P) kans & DFs, Kavadi RF.
			Checking gate	-
			Udugani.	-
			F. Guards	-
		Fire wood depot Shiralkoppa		-

Annexure - 4

Notifications details of Sagar division.

Range	SL No	Name of the Forest		G.O. Number & date.	A	G	Hectares
1	2	3		4	5	6	7
1. Ambligola	1	Belandur	SF	No. 23537. R. 3437 / 19.6.1895.	13785	38	5579.10
	2	Karadibetta	SF	No. 23537 . R.3437 / 19.6.1895.	12250	23	4957.74
	3	Bannur	MF	No. G. 4656. Ft. 20.28.31/28.9.1929.	1164	23	471.30
	4	Haragihalu	MF	(i) G. 393 - Ft. 109 - 27 - 65 / 9.7.1929.	2411	34	976.06
				(ii) G. 12673-82 Ft. 185-24-7 / 11.4.1929.			
	5	Hariharapura	MF	(i) G. 2378 - Ft. 109-27-78 / 24.8.1929.	372	0	150.55
				(ii) G. 12673-82 Ft. 185-24-7 / 11.4.1929.			
	6	Hireharka	MF	(i) G. 1359 - Ft. 38-34-3 / 10.8.1934.	501	0	202.75
				(ii) G. 12673-82 Ft. 185-24-7 / 11.4.1929.			
	7	Kalamane	MF	G. 2293. Ft. 109.27.77 / 20.8.1929.	428	17	173.38
	8	Kottipura	MF	G. 4656 - Ft. 20-28-31 / 28.9.1929.	777	25	314.70
	9	Kota	MF	No. G. 4656. Ft. 20.28.31 / 28.9.1929.	168	35	68.34
	10	Madaravalli	MF	G. 15053 - Ft. 109-27-37 / 25.6.1929.	360	0	145.69
	11	Nadavalli	MF	G. 1362 - Ft. 38-34-4 / 10.8.1934.	415	0	167.95
	12	Salur	MF	G. 15259 - Ft. 109-27-43 / 29.6.1929.	554	0	224.20
	13	Suthabande	MF	G.4656 - Ft.20.28.31 / 28.9.1929.	545	32	220.88
2. Anandpuram	14	Chipli	SF	(i) R. 12296-9 Ft. 112-18-4 / 25.3.1919.	1295	32	524.40
				(ii) R. 12300 - Ft. 112-18-4 / 25.3.1919.			
	15	Chipli aiginbylu	SF	AF 6888 - Ft. 186.40.0 / 1.4.1941.	470	1	190.22
	16	Gilalgundi	SF	R. 5825 - Ft. 86-12-9 / 31.1.1914.	2773	9	1122.31
	17	Karadibetta	SF	No. 23537 . R.3437 / 19.6.1895.	8229	17	3330.40
	18	Koragi	SF	(i) I.C. 1716-19 Ft.302.25.4/ 15.9.1926.	2294	17	928.54
	19	Malali	SF	(i) R. 655-58 Ft. 113-18-4 / 11.7.1919.	771	23	312.25
				(ii) R. 659 - Ft. 113-18-5 / 11.7.1919.			
	20	Malandur	SF	No. 23537 - R. 3436 / 19.6.1895.	6400	0	2590.04
	21	Malandur extn.	SF	AF. 6883 Ft. 186-40-2 / 1.4.1941.	2822	30	1142.35
	22	Talaginamane	SF	(i) I. C. 6130-3 Ft. 190-21-2 /30.6.1922.	1718	11	695.38
				(ii) I. C. 6434 - Ft. / 30.6.1922.			
	23	Adur	MF	(i) G. 1365 - Ft. 38-34-5 / 10.8.1934.	1419	0	574.26
				(ii) C.12673-82-Ft.185-24-7 / 11.4.1929.			
	24	Byrapura	MF	(i) G. 1352 - Ft. 37-84-2 / 9.8.1934.	679	0	274.79
				(ii) G.12673-82- Ft.185.24.7/ 11.4.1929.			
	25	Chordi	MF	(i) G. 3453 - Ft. 109-27-93 / 17.9.1929.	539	36	218.49
				(ii) G.12678.82- Ft.185-24-7/11.4.1929.			
	26	Kunehosur	MF	(i) G. 15261 -Ft. 109-27-45 / 29.6.1929.	752	13	304.46
				(ii) G. 12673-82 Ft.185-24-7/11.4.1929.			
	27	Sannivasa	MF	(i) G. 2547 - Ft. 109-27-85 / 27.8.1929.	200	12	81.06
				(ii) G. 12673-82- Ft.185-24-7/11.4.1929.			
	28	Tuppur	MF	G. 2538 - Ft. 109-27-83 / 27.8.1929.	319	11	129.21
	29	Koragi	RF	AHFF 80 FAF-88 dtd 5.11.1988.	178	2	72.06
	30	Tuppur	RF	AHFF 83 FAF-88 dtd 12.8.94.	0	0	0.00
3. Anavatti	31	Artalagadde	SF	G.I. 23538. R. 3436 / 19.6.1895.	640	0	259.00
	32	Bettadakurali	SF	G.I. 23538. R. 3436 / 19.6.1895.	2080	0	841.76
	33	Kuppagadde	SF	(i) IC. 3549-52 - Ft. 59-24-4/23.11.1925.	1431	34	579.46
				(ii) IC. 3553-59-24-5 / 23.11.1925.			
	34	Talagadde	SF	G.I. 23538. R. 3436 / 19.6.1895.	3200	0	1295.02
	35	Tavanandi	SF	(i) R. 8125 - Ft. 125-17-5 / 6.2.1918.	1816	18	735.11
				(ii) R. 8118-21 - Ft. 125-17-4 / 6.2.1918.			
	36	Dodderikoppa	MF	G. 3964 - Ft. 20.28.29 / 21.9.1929.	379	11	153.49

1	2	3		4	5	6	7
	37	Hasavi	MF	G. 699. Ft. 1.32.3 / 27.7.1932.	626	5	253.39
	38	Haya	MF	G. 6720 Ft. 194.36.2 / 5.8..1937.	250	0	101.17
	39	Hireyadagodu	MF	G. 702. Ft. 1-32-34 / 27.7.1932.	668	3	270.37
	40	Korkodu	MF	G. 3964 - Ft. 20.28.29 / 21.9.1929.	610	18	247.05
	41	Kotekoppa	MF	(i) G.708 - Ft. 1-32-6 / 27.7.1932.	510	31	206.71
	42	Kuppagadde	MF	G. 3964 - Ft. 20.28.29 / 21.9.1929.	200	0	80.94
	43	Negavadi	MF	G. 1362. Ft. 38.34.4 / 10.8.1934.	254	15	102.94
	44	Suranige	MF	G. 705 - Ft. 1.32.5 / 27.7.1932.	483	8	195.55
	45	Talagadde	MF	G. 696 - Ft. 1 - 32 - 2 / 27.7.1932.	478	2	193.46
	46	Talaguppa	MF	G. 6886 - Ft. 33 - 30 - 83 / 5.1.1931.	623	12	252.25
	47	Tallur	MF	G. 2313. Ft. 7.29.59 / 21.8.1930.	2102	32	850.99
	48	Tavanandi	MF	G. 3964 - Ft. 20.28.29 / 21.9.1929.	281	29	114.01
	49	Tekkkur	MF	G. 4224. Ft. 138.11.9 / 12.2.1913.	43	22	17.62
	50	Tyavagodu	MF	G. 400 - Ft. 20 - 28 - 30 / 23.9.1929.	397	34	161.01
	51	Siddihalli	Pln	No. 23537. R. 3437 / 19.6.1895.	560	0	226.63
	52	Bilagalale	SR	I.C. 8780 - Ft. 332-25-2 / 29.6.1926.	304	2	123.05
	53	Hurali	SR	G. 6720 - Ft. 194-36-2- dt. 5/8.3.1937.	1566	7	633.82
				(ii) IC. 8095 -8- Ft. 24-21-4/ 30.9.1921			
	54	Kulaga	RF	AHFF 111 FAF 87 / 10/17.6.88.	53	0	21.45
	55	Tekkuru	RF	AHFF 137 (A) FAF 88 / 28.7.94.	295	0	119.38
4. Hosanagara	56	Haridravathi	SF	(i) R.5057-60 -Ft.117-15-6 / 25.11.1916.	5495	5	2223.85
				(ii) R.5061 - Ft. 117-15-7 / 25.11.1916.			
	57	Haniya I & II	SF	I.C. 1428-31 - Ft. 307-25-4 / 30.8.1926.	1287	11	520.95
	58	Jamballi	SF	R. 12070.3 - Ft. 171-19-2 / 16.4.1920.	1815	6	734.58
	59	Jeni	SF	R.11971-4- Ft. 168 - 19 - 2 / 12.4.1920.	2024	3	819.13
	60	Kodur	SF	(i) R. 4955-9 - Ft. 88-17-4 / 30.11.1917.	3378	8	1367.14
				(ii) R. 4960 - Ft. 88-17-5 / 30.11.1917.			
	61	Kolagi	SF	(i) G.12967-70- Ft.306-27-2 / 18.5.1928.	1361	32	551.11
	62	Sharavathi	SF	R. 7535 - 8 Ft - 80-16-1 / 19.1.1917.	2375	0	961.15
	63	Sharmanavathi	SF	(i) R.5622-5 - Ft. 77-16-4 / 5.12.1916.	1046	0	423.31
				(ii) R.5626 - Ft. 77-16-5 / 5.12.1916.			
	64	Neelakanta	MF	(i) G.4871 Ft. 27 - 33 - 31 / 10.1.1934.	425	37	172.37
				(ii) G.2673-32 Ft. 185-24 -7 / 11.4.1929.			
	65	Aduvalli	RF	AHFF 257 FAF 88 / 28.8.94.	170	15	68.95
	66	Alagerimandri	RF	AHFF 96 FAF 87 / 20.2.1994.	67	38	27.50
	67	Amache	RF	AHFF 123 FAF 88 / 7.12.1994.	113	0	45.73
	68	Anegadde	RF	AHFF 109 FAF 88 / 29.10.1994.	568	28	230.15
	69	Balekoppa	RF	AHFF 99 FAF 87 / 13.11.88.	108	0	43.71
	70	Biliki	RF	AHFF 129 FAF 87 / 10 /17.5.87.	387	37	156.99
	71	Devarahonnekoppa	RF	AHFF 82 FAF 88 / 5.9.1994.	191	36	77.66
	72	Doddabiligodu	RF	AHFF 117 FAF 88 / 12.8.1994.	207	0	83.77
	73	Dumma	RF	AHFF 91 FAF 87 / 10 /12.5.88.	239	30	97.03
	74	Goragodu	RF	AHFF 259 FAF 88 / 7.12.1994.	169	20	68.60
	75	Gubbiga	RF	AHFF 88 FAF 87 / 27/ 9.5.88.	794	0	321.33
	76	H.Hunasavalli	RF	AHFF 137 FAF 88 / 30.7.1994.	341	19	138.19
	77	H.Kalkoppa	RF	AHFF 98 FAF 87 / 12.2.88.	62	23	25.32
	78	Halugudde	RF	AHFF 251 FAF 88 / 20.12.1994.	1669	26	675.70
	79	Harathalu	RF	AHFF 138 FAF 88 / 11.11.1994.	553	37	224.17
	80	Hilagodu	RF	AHFF 258 FAF 88 / 7.12.94.	273	4	110.52
	81	Hiriyogi	RF	AHFF 117 FAF 87 / 10/17.8.88.	78	20	31.77
	82	Honnebylu	RF	AHFF 10 FAF 88 / 1.6..88.	236	0	95.51
	83	Hosakesare	RF	AHFF 253 FAF 88 / 20.12.1994.	329	13	133.28
	84	Humcha	RF	AHFF 255 FAF 88 / 13.12.1994.	443	26	179.54
	85	K.Hunasavalli,Menase	RF	AHFF 168 FAF 88 / 19.12.1994.	659	9	266.78
	86	Hebbyle,Amchi	RF	AHFF 78 FAF 88 / 3.9.1994.	919	33	372.25

1	2	3		4	5	6	7
	87	Kadasuru	RF	AHFF 256 FAF 88 / 28.10.1994.	751	9	304.02
	88	Kalashettikoppa	RF	AHFF 87 FAF 87 / 10.5.88.	60	0	24.28
	89	Kanabanduru,Kolavalli	RF	AHFF 53 FAF 96 / 21.3.1997.	935	0	378.39
	90	Karakki	RF	AHFF 146 FAF 88 / 7.12.1994.	242	29	98.23
	91	Kerehalli, Shuntikoppa	RF	AHFF 12 FAF 80 / 10 / 17.5.88.	397	17	160.84
	92	Kodur	RF	AHFF 92 FAF 87 / 10.5.88.	305	31	123.75
	93	Kodur Yelagallu	RF	AHFF 127 FAF 88 / 8.12.1994.	308	22	124.87
	94	Kolavadi Habbigal	RF	AHFF 122 FAF 80 / 10 / 17.5.88.	540	0	218.54
	95	L.Guddekoppa	RF	AHFF 91 FAF 88 / 23.8.1994.	292	13	118.30
	96	M.Guddekoppa	RF	AHFF 79 FAF 88 / 15.12.1994.	644	28	260.91
	97	Majavana	RF	AHFF 260 FAF 88 / 14.9.1994.	381	12	154.31
	98	Maruthipura	RF	AHFF 77 FAF 88 / 6.9.1994.	532	33	215.63
	99	Masakallu	RF	AHFF 129 FAF 88 / 10.8.81.	365	20	147.92
	100	Mattur	RF	AHFF 145 FAF 88 / 27.7.1994.	337	0	136.38
	101	Malur	RF		204	24	82.80
	102	Mumbharu	RF	AHFF 46 FAF 90 / 16.12.94.	606	32	245.57
	103	Muttala	RF		238	15	96.47
	104	Nagarahalli	RF	AHFF 250 FAF 88 / 24.8.1994.	170	19	68.99
	105	Nellundi	RF	AHFF 26 FAF 90 / 16.11.1994.	166	38	67.56
	106	Punaje	RF	AHFF 50 FAF 88 / 9.12.1994.	1472	3	595.74
	107	Ramachandrapura	RF	AHFF 51 FAF 96 / 18.11.1996.	228	20	92.47
	108	Salageri	RF	AHFF 56 FAF 88 / 7.9.1994.	124	20	50.38
	109	Shakavalli	RF	AHFF 96 FAF 88 / 28.2.94.	233	34	94.64
	110	Togari	RF	AHFF 144 FAF 88 / 8.8.1994.	1102	16	446.14
	111	Totadakoppa	RF	AHFF 3 FAF 95 / 21.2.1995.	304	30	123.33
	112	Varakodu	RF	AHFF 2 FAF 88 / 27/10.19.1994.	604	4	244.48
	113	Vasave	RF	AHFF 57 FAF 96 / 24.9.1994.	100	0	40.47
	114	Yalagallu,C.Kunuru	RF	AHFF 39 FAF 90 / 14.9.1994.	360	12	145.81
5. Kargal	115	Attigodu	SF	I.C. 3951-4 Ft. 167-24-6 / 10.12.1925.	1886	39	763.65
	116	Channagonda	SF	(i) G. 2903-6 Ft. 53-35-2 / 16.10.1935.	5601	8	2266.77
				(ii) G.2907-6 Ft. 53-35-3 / 16.10.1935.			
	117	Govardhangiri	SF	(i) P. 8246-50 - Ft.116-07-6 / 16.6.1908.	33294	21	13474.11
				(ii) R. 8251 - Ft.116-07-6 / 16.6.1908.			
	118	Jog "A" Block	SF	(i) R.5106-10 Ft. 16-08-6 / 22.1.1909.	9483	26	3837.98
	119	Jog "B" Block		(ii) R.5111 Ft. 46-08-7 / 22.1.1909.			
	120	Karani	SF	AF. 4877 - Ft. 183 - 39 - 3 / 12.3.1940.	13056	29	5283.98
	121	Kargal	SF	(i) IC. 592-5 - Ft. 23-21-2 / 30.7.1921.	1067	24	432.05
				(ii) IC. 596 - Ft. 23-21-2 / 30.7.14921.			
	122	Kudurur B - I	SF	AF. 1752 - Ft. 86 - 39 - 3 / 10.10.1939.	4397	32	1779.77
	123	Kudurur B - II	SF	AF. 1752 - Ft. 86 - 39 - 3 / 10.10.1939.	3992	1	1615.55
	124	Muppani A	SF	AF. 301 - Ft. 255 - 39 - 3 / 17.7.1940.	2376	21	961.77
	125	Muppani B	SF	AF. 301 - Ft. 255 - 39 - 3 / 17.7.1940.	1552	26	628.35
	126	Talakalale	SF	(i) IC.4002-5 Ft.160-24- 2/12.12.1924.	2016	32	816.19
				(ii) IC.4006-5 Ft.160-24-2/12.12.1924.			
	127	Kargal	RF	AHFF 105 FAF 88 / 7.9.94.	78	0	31.57
	128	Karumanehalli	RF	AHFF 132 FAF 88 / 8.12.94.	288	0	116.55
	129	Talakalale	RF	AHFF 100 FAF 88 / 8.4.94.	584	35	236.70
	130	Tumri	RF	AHFF 223 FAF 88 / 20.11.94.	145	0	58.68
6. Nagara	131	Baise	SF	R. 6236.9. Ft. 68.16.4 / 18.12.1916.	768	16	310.97
	132	Chakra	SF	(i) R. 8244-7 - Ft. 61-16-9 / 6.2.1917.	1902	0	769.73
				(ii) R. 8248 - Ft. 61-16-10 / 6.2.1917.			
	133	Devagange	SF	R. 5062-5 - Ft. 71-16-4 / 25.11.1916.	933	34	377.92
	134	Honnaramagane	SF	No. 354. 12 Aug. 1989.	1754	17	710.01
	135	Hulikal	SF	(i) R. 5860-3- Ft. 60-16-4 /11.12.1916.	1055	4	426.99
				(ii) R. 5864 - Ft. 60-16-5 / 11.12.1916.			

1	2	3		4	5	6	7
	136	Kavaledurga	SF	(i) R. 10902-5 - Ft. 115-17-6 / 7.5.1918.	6152	5	2489.73
				(ii) R. 10906 - Ft. 115-17-7 / 7.5.1918.			
	137	Killandur	SF	R. 6941-4 - Ft. 66 -16- 4 / 18.12.1916.	16255	19	6578.50
	138	Kodachadri	SF	(i) R. 1281 - 5 Ft. 220-06-4 / 12.8.1907.	4080	5	1651.20
				(ii) R. 1286 Ft. 220-06-5 / 12.8.1907.			
	139	Kodasi	SF	(i) R. 115-8 - Ft. 122-15-6 / 3.7.1916.	3327	32	1346.74
				(ii) R. 119 - Ft. 122-15-7 / 3.7.1916.			
	140	Manibail	SF	(i) R. 5077-81-Ft. 78-17-4 / 5.12.1917.	2105	16	852.04
				(ii) R. 5082 - Ft. 78-17-5 / 5.12.1917.			
	141	Mattikai	SF	(i) R. 5230-3 - Ft. 67-16-5 / 29.11.1916.	1891	32	765.60
				(ii) R. 5234 - Ft. 67-16-5 / 29.11.1916.			
	142	Menasinagudda	SF	No. 354.12. Aug . 1989.	397	24	160.91
	143	Varahi	SF	R. 5638-41 Ft. 39-16-4 / 5.12.1916.	5466	8	2212.14
	144	Kabale	RF	AHFF 44 FAF 90 / 2.12.1991.	575	0	232.70
	145	Khyrgunda	RF	AHFF 112 FAF 88 / 15.12.1994.	813	7	329.09
	146	Kilandur	RF	AHFF 120 FAF 87 / 10.5.88.	162	0	65.56
	147	Kolavadi	RF	AHFF 103 FAF 88 / 6.12.1994.	914	38	370.28
	148	Magodu	RF	AHFF 121 FAF 87 / 10/ 17.5.88.	130	0	52.61
	149	Mattikai	RF	AHFF 162 FAF 88 / 13.9.1994.	355	0	143.67
	150	Mudagoppa	RF	AHFF 254 FAF 88 / 7.12.1994.	904	35	366.20
	151	Ryave	RF	AHFF 90 FAF 90 / 17.9.1994.	1580	26	639.68
	152	Sulagodu	RF	AHFF 249 FAF 88 / 17.12.1994.	1152	39	466.60
	153	Yadooru	RF	AHFF 57 FAF 88 / 6.9.1994.	372	0	150.55
7. Sagar	154	Avinahalli	SF	(i) R. 12432-5 Ft. 111-18-4 / 27.3.1919.	1626	20	658.24
				(ii) R. 12436 Ft. 111-18-5 / 27.3.1919.			
	155	Bellenne	SF	R. 5845 Ft. 33-12-7 / 12.4.1913.	2002	0	810.20
	156	Belandur	SF	No. 23537. R. 3437 / 19.6.1895.	4478	15	1812.37
	157	Iduvani	SF	R. 4224 Ft. 138-11-9 / 12.2.1913.	2346	9	949.50
	158	Kalkoppa	SF	(i) R. 12710.3 Ft. 129-18-4 / 2.4.1919.	792	5	320.57
				(ii) R. 12714 Ft. 129-18-5 / 2.4.1919.			
	159	Maisavi	SF	R. 257 Ft. 86-13-5 / 9.7.1914.	2398	11	970.57
	160	Ullur	SF	(i) R. 2877-81 Ft. 161-11-4 / 22.11.1912.	1097	3	443.98
				(ii) R. 2882 - Ft. 161-11-4 / 22.11.1912.			
	161	Bhadrapura	MF	G.4656 - Ft. 20-28-31 / 28.9.1929.	270	0	109.27
	162	Bilisiri	MF	G. 1356 - Ft. 38-34-2 / 10.8.1934.	563	0	227.84
	163	Avinahalli	RF	AHFF 95 FAF 88 / 18.9.94.	106	18	43.08
	164	Bilisiri	RF	AHFF 94 FAF 87 / 18.2.1988.	297	25	120.45
	165	Malali	RF	AHFF 131 FAF 88 / 27.7.94.	129	36	52.57
	166	Marooru	RF	AHFF 118 FAF 87 / 16.5.88.	305	19	123.62
	167	Masur	RF		709	2	286.95
	168	Nadamanchale	RF	AHFF 113 FAF 87 / 10.5.88.	271	0	109.67
	169	Nadavadahalli	RF	AHFF 86 FAF 87 / 26.3.88.	118	10	47.86
8. Shikaripura	170	Chandrakala	SF	No. 23537. R. 3437 / 19.6.1895.	7832	0	3169.57
	171	Gangavanasara	SF	No. 23537. R.3437 / 19.6.1895.	9576	0	3875.35
	172	Gogga	SF	R. 511. Ft. 54. 06. 5 / 23.7.1908.	1630	33	659.99
	173	Markande	SF	R. 1573-77 -Ft. 111-06-6 / 7.9.1908.	2525	39	1022.25
	174	Yerekatte	SF	R. 3545 - Ft. 121-05-3 / 13.1.1906.	880	25	356.38
	175	Ambarakoppa	MF		0	0	0.00
	176	Harogoppa	MF	G. 15100 - Ft. 109.27.38 / 26.6.1929.	327	12	132.46
	177	Ittigehalli	MF		659	33	267.03
	178	Kaginelli	MF	(i) G. 2809 - Ft. 20-25-20 / 4.9.1929.	3364	7	1361.46
				(ii) G.12673-82 Ft. 185-24-7 / 11.4.1929.			
	179	Kota	MF	No. G. 4656. Ft. 20.28.31 / 28.9.1929.	96	9	38.94
	180	Kodikoppa	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	941	30	381.12
	181	Sadashivapura	MF		305	37	123.81

1	2	3		4	5	6	7
	182	Suthabande	MF	G.4656 - Ft.20.28.31 / 28.9.1929.	1328	26	537.70
	183	Taralaghatta	MF	G.4656 - Ft.20.28.31 / 28.9.1929.	385	39	156.20
	184	Kengatte	SR	No. 7667. Ft - 196.27.2 / 7.1.1928.	732	2	296.26
	185	Kallenahalli	Pl.	No. 23537 - R - 3436 / 19.6.1895.	500	0	202.35
	186	Kesarghatta	TR	G. 3940 - Ft. 380.22.4 / 22.11.1923.	430	1	174.03
	187	Kutrahalli	SR	G. 8112 - Ft. 330.29.8 / 16.5.1933.	1321	14	534.74
	188	Harnahalli	SR		1244	6	503.50
	189	Nagenahalli	Blk		574	3	232.32
	190	Basavapura (Forest)	Blk		1101	17	445.74
9. Shiralkoppa	191	Arekoppa	SF	R. 731-4- Ft. 175 - 18 - 6 / 12.7.1919.	888	0	359.37
	192	Basavanandihalli	SF	G.I. 23537. R. 3437 / 19.6.1895.	2240	1	906.53
	193	Belandur	SF	No. 23537. R. 3437 / 19.6.1895.	354	15	143.41
	194	Chikkasavi	SF	(i) R.14571-74-Ft.182-18-4 / 14.5.1919.	688	34	278.77
				(ii) R. 14575 - Ft. 182-18-5 / 14.5.1919.			
	195	Chandrakala	SF		167	39	67.98
	196	Guddahosahalli	SF	I.C. 1650. Ft. 42.21.3 / 10.9.1921.	483	3	195.50
	197	Kavadi	SF	No. 23537. R. 3437 / 19.6.1895.	1120	0	453.26
	198	Kavali	SF	No. 23537. R. 3437 / 19.6.1895.	640	0	259.00
	199	Karchikoppa	SF	(i) G. 13918-21-Ft.296-29-2/28.5.1930.	112	39	45.72
				(ii) G.13922 - Ft. 296-29-3 / 28.5.1930.			
	200	Shigga I	SF	(i) R. 1441-4 -Ft.120-18-4/26.7.1919.	1443	35	584.33
	201	Shigga II		(ii) R. 1446 - Ft. 120-18-6 / 26.7.1919.			
	202	Syadalkoppa - I	SF	R. 12992- 5 - Ft. 140-18 - 4 / 9.4.1919.	271	0	109.67
	203	Syadalkoppa - II	SF	R. 12997-5 - Ft. 140-18-6 / 9.4.1919.	289	0	116.96
	204	Togarshi	SF	No. 23537. R. 3437 / 19.6.1895.	640	0	259.00
	205	Udri	SF	(i) R. 5700-3 - Ft. 121-18-6/15.11.1919.	1003	2	405.93
				(ii) R. 5704 - Ft. 121-18 / 15.11.1919.			
	206	Adagante	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	244	30	99.05
	207	Basavanandihalli	MF		282	5	114.17
	208	Biliki	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	343	0	138.81
	209	Bisalahalli	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	241	1	97.54
	210	Chittur	MF	G. 4001. Ft. 20.28.30 / 23.9.1929.	367	31	148.84
	211	Chimanur	MF	G. 6720 Ft. 194.36.2 / 8.3.1937.	120	15	48.72
	211	Guddekoppa	MF	G. 2313 - Ft. 7.29.59 / 21.8.1930.	473	6	191.48
	212	Induvalli	MF		354	16	143.42
	213	Jambur	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	2078	23	841.19
	214	Kodihalli	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	561	3	227.06
	215	Manmane	MF	No.R.5057.60 Ft.117.15.16/25.1.1916.	205	0	82.96
	216	Manchikoppa	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	484	11	195.98
	217	Muttige	MF	No. G. 4656. Ft. 20.28.31 / 28.9.1929.	1744	31	706.10
	218	N.Devikoppa	MF		703	6	284.56
	219	Shigga	MF	G. 4001. Ft. 20.28.30 / 23.9.1929.	354	3	143.29
	220	Shivapura	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	519	24	210.28
	221	Syadalkoppa	MF	G. 4001. Ft. 20.28.30 / 23.9.1929.	347	20	140.63
	222	Tadagunda	MF	G. 4656 - Ft. 20 - 28 - 31 / 28.9.1929.	190	20	77.09
	223	Udagani	MF		588	34	238.30
10. Soraba	224	Absi	SF	I.C. 2099. Ft. 24.21.5 / 30.9.1921.	817	32	330.96
	225	Avalagodu	SF	R. 12786 - Ft. 139-18-4 / 4.4.1919.	1798	15	727.79
	226	Belandur	SF	No. 23537. R. 3437 / 19.6.1895.	741	12	300.00
	227	Chandragutti	SF	No. 23537. R. 3437 / 19.6.1895.	4800	0	1942.53
	228	Gunjanur	SF	R. 8589 - Ft. 147-20-3 / 2.2.1921.	761	39	308.37
	229	Halagalale	SF	(i) R. 2165-8 - Ft. 190-18-4 / 9.8.1919.	781	33	316.40
				(ii) R. 2180 - Ft. 190-18-4 / 9.8.1919.			
	230	Harishi B - I	SF	(i) IC. 4378-81- Ft.264-22-7/30.12.1924.	303	36	122.99
	231	Harishi B - II	SF	IC. 4382. Ft. 264.22.7 / 30.12.1924.	431	30	174.73

1	2	3		4	5	6	7
	232	Hirehavali	SF	3916. Ft. 23.19.5 / 19.9.1919.	665	37	269.50
	233	Idur	SF	(i) IC.3997-4000-Ft.159-24-2/12.12.1924.	1023	4	414.04
				(ii) IC. 4001 - Ft. 159-24-3 / 12.12.1924.			
	234	Karchikoppa	SF	(i) G. 13918-21-Ft.296-29-2/28.5.1930.	2335	31	945.28
				(ii) G.13922 - Ft. 296-29-3 / 28.5.1930.			
	235	Kuntagalale B - I	SF	(i) G. 12756-9 - Ft.321-27-2/12.5.1928.	873	15	353.45
				(ii) G. 12760 - Ft. 321-27-3 / 12.5.1928.			
	236	Kuntagalale B - II	SF	(i) G. 12756-9 -Ft.321-27-2/12.5.1928.	810	32	328.13
				(ii) G. 12761 - Ft.321-27-4/12.5.1928.			
	237	Kyasanur B - I	SF	IC. 591 - Ft. 22-21-3 / 30.7.1921.	832	13	336.84
	238	Kyasanur B - II	SF	IC. 587-90 - Ft. 22-21-2 / 30.7.1921.	1430	19	578.91
	239	Maisavi	SF	R. 257 Ft. 86-13-5 / 9.7.1914.	560	15	226.78
	240	Absi	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	210	29	85.28
	241	Andige	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	251	14	101.72
	242	Ankaravalli	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	344	36	139.58
	243	Bhadrapura	MF	G.4656 - Ft. 20-28-31 / 28.9.1929.	247	32	100.28
	244	Chandragutti	MF	No. 23537. R - 3436 / 19.6.1895	221	1	89.45
	245	Chilanur	MF		115	2	46.56
	246	Chimanur	MF	G. 6720 Ft. 194.36.2 / 8.3.1937.	1533	13	620.53
	247	Dandavati	MF	(i) G. 15098 - Ft.109-27-40/29.6.1929.	1154	39	467.41
	248	Dugur	MF	G. 4001 Ft. 20.28.30 / 23.9.1929.	253	9	102.48
	249	Gunjanur	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	274	16	111.05
	250	Harishi	MF	G. 6720 Ft. 194.36.2 / 5.8.1937.	441	10	178.57
	251	Hechi	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	365	25	147.97
	252	Heggodu	MF	G. 6720 Ft. 194.36.2 / 5.8.1937.	393	37	159.42
	253	Hireavalli	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	231	0	93.48
	254	Hosabale	MF	(i) G. 7546 - Ft. 33-30-88 / 20.1.1931.	414	26	167.81
	255	Jambahalli	MF		581	34	235.47
	256	Kaisodi	MF	G.4656 - Ft. 20-28-31 / 28.9.1929.	216	0	87.41
	257	Kakkarasi	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	734	7	297.12
	258	Kanthanahalli	MF		570	18	230.86
	259	Kamalapura	MF	G. 6720 Ft. 194.36.2 / 5.8.1937.	356	38	144.46
	260	Kamarur	MF		300	0	121.41
	261	Kodakani	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	871	15	352.64
	262	Kyasanur	MF	G. 4001 Ft. 20.28.30 / 23.9.1929.	25	0	10.12
	263	Nadahalli	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	911	37	369.05
	264	Nyarasi	MF	G. 2313 - Ft. 7-29-59 / 21.8.1930.	435	15	176.19
	265	Saggade	MF	R. 5230.3 Ft. 67.16.4 / 29.1.1916.	895	28	362.48
	266	Santekoppa	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	257	20	104.21
	267	Tandige	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	245	0	99.15
	268	Tyavagodu	MF	G. 400 - Ft. 20 - 28 - 30 / 23.9.1929.	50	0	20.23
	269	Vantigadde	MF	G. 2809 Ft. 25.20 / 21.8.1930.	370	0	149.74
	270	Yalashi	MF	G. 3964 - Ft. 20-28-79 / 21.9.1929.	478	5	193.49
	271	Baragi	RF	AHFF 93 FAF 98 / 24.2.88.	178	0	72.04
	272	Bennuru	RF	AHFF 89 FAF 87 / 10 / 17.5.88.	86	0	34.80
	273	Chilanur	RF	AHFF 89 FAF 88 / /3.9.1994.	167	5	67.63
	274	Edur	RF	AHFF 97 FAF 87 / / 1.3.88.	473	6	191.48
	275	Harishi	RF	AHFF 116 FAF 88 / 8/12.5.94.	53	7	21.52
	276	Kyasanur	RF	AHFF 103 FAF 87 / 3.5.88.	315	0	127.48
	277	Magadi	RF	AHFF 116 FAF 87 / 10.5.88.	197	0	79.72
	278	Ulavi	RF	AHFF 127 FAF 87 / 10/17.5.88.	49	16	19.99
	279	Veerannapura	RF	AHFF 102 FAF 87 / 3 / 7.5.88.	96	0	38.85
							147829.50

Annexure - 5
Abstract of Range Wise Population

Range	No of House holds	Literates MFT Population			SC			ST			Total
		M	F	T	M	F	T	M	F	T	
Ambligola	7685	11848	7786	19634	4840	4748	9588	399	398	797	30019
Anandapuram	3769	6794	4519	11313	1444	1404	2848	166	151	317	14478
Anavatti	13423	23831	15449	39280	7885	7429	15314	957	854	1811	56405
Hosanagara	8458	13761	9561	23322	2414	2436	4850	376	423	799	28971
Kargal	2776	4177	2651	6828	380	332	712	245	237	482	8022
Nagara	4330	6866	5040	11906	802	831	1633	442	416	858	14397
Sagar	13770	23207	15160	38367	3196	3063	6259	761	784	1545	46171
Shikaripura	9875	14175	7800	21975	8611	8127	16738	383	359	742	39455
Shiralakoppa	13256	21362	13240	34602	11217	10400	21617	1311	1292	2603	58822
Soraba	8431	14570	9019	23589	2308	2196	4504	111	152	263	28356
TOTAL	**85773**	**140591**	**90225**	**230816**	**43097**	**40966**	**84063**	**5151**	**5066**	**10217**	**325096**

Annexure – 6
List of Species found in Sagar Forest Division.

Botanical Name	Vernacular Name	Family
Acaci arabica	Jali	Mimoseae
Acacia arabica	Karijali	Mimoseae
Acacia catachu	Kaggali	Mimoseae
Acacia concinna	Sige	Mimoseae
Acacia feruginea	Banni	Mimoseae
Acacia leucophloea	Bilijali	Mimosea
Acacia suma	Mugali	Mimoseae
Acaea intsia	Kaduseege	Mimoseae
Adhatoda Vasica	Adusoge	Acanthaceae
Adina cardifolia	Yethega	Rubiceae
Aegle marmelos	Bilwapatre	Rutaceae
Aglaia roxburghiana	Kempumola	Meliaceae
Ailanthus malabarica	Maddidhupa	Simarubaceae
Albezzia lebbek	Kallubage	Mimoseae
Albizzia amara	Sujjalu	Mimoseae
Albizzia amara	Tuggalu	Mimoseae
Albizzia lebbek	Bage	Mimoseae
Albizzia odoratissima	Bilwara	Mimoseae
Albizzia procera	Bellatte	Mimoseae
Alseodophine semicarpi folia	Masimelthare	Lauraceae
Alstonia scholaris	Maddale	Apocynaceae
Amoora canarana	Hottenola	Meliaceae
Anacardium occidental	Geruhannu, godambi	Anacarviaceae
Anogesissus latifolia	Dindiga	Combretaceae
Anthocephalus cadaurba	Neerubale	Rubiceae
Antiaris toxicaria	Ajjanapatte	Urtieaceae
Antideshma diandrum	Hulimajjige	Euphorbiaceae
Aprossa lindleyana	Salle	Euphorbiaeae
Arenga wightii	Dadasal	Palmae
Artocarpus hirsuta	Hebbalasu	Urticaceae
Artocarpus integrifolia	Halasu	Urticaceae
Artocarpus lakoocha	Vatehuli	Urticaceae
Azadirachta indica	Bevu	Meliaceae
Bambus arundinacea	Hebbidiru	Graminae
Bassia latifolia	Ippe	Sapotaceae
Bauhinapurpuria	Kanchavala	Papilionaceae
Bauhinia malabarica	Basavanapada	Papilioncaeae
Bauhinia racemosa	Achalu	Casesalpinae
Bauhinia vahlii	Basavanapadada-balli	Papilionaceae
Beilschmiedia roxburghiana	Katte	Lauraceae
Boswellia serrata	Dhupa	Burseraceae
Bridelia retusa	Goje	Euphoribaceae

Bridelia retusa	Madakaballi	Euphorbiaceae
Buchanania latifoiia	Murgugalu, murukalu	Anacardiaceae
Butea frondisa	Muttuga	Papilionaceae
Butea superba	Kadavaraballi	Papilionaceae
Caesalpinia abonducella	Gejjiga	Caesalpiniaceae
Calamus pseudotenvis	Siralbetta	Palmae
Calamus rotang	Halubetta	Plamea
Calamus spp	Handibetta	Palmae
Calophyllum inophllum	Surhonne	Guttiferae
Calophyllum wightianum	Holehonne	Guttiferae
Canarium strictum	Kidhupa	Burseraceaea
Canarium strictum	Raladhupa	Burseraceae
Canthium didymum	Bilachi heddarane	Rubiaceae
Canthium parviflorum	Heddarve	Rubiacea
Careya arborea	Kowlu	Myrtaceae
Carissa spinarum	Kabali, kavali	Apocynaceae
Carrllia lucida	Naihalasu	Rhizophoraceae
Caryota urens	Bagani	Palomae
Casesalpinia mimosoides	Kenjiga	Caesalpineae
Cassia auriculata	Acarikay	Papilionaceae
Cassia auriculata	Tangadi	Caesalpinae
Cassia fistula	Katte	Caesalpineae
Cassia tomentosa	Sillange	Caeslpineae
Cedrela toona	Gandhagarige	Meliaceae
Celastrus paniculata	Gowri	Celastraceae
Celtis australis	Karki	Urticaceae
Chivkrassia tabularis	Kalagarige	Meliaceae
Chloroxylon sweitenia	Massivala, massibalally	Meliaceae
Cinnamomum zeylanicum	Dalchinni	Lauraceae
Cipadessa fruticose	Chitundmukarti	Meliaceae
Clematis gouriana	Arike Hambu	Guttiferae
Cochlospermum gossypium	Betta tavare	Bixaceae
Cochospermum gossypium	Halubhutale	Bixaceae
Colebrookea oppositifolia	Biligurgi	Labiateae
Cordia macleodii	Hadaga	Borginaceae
Cordia myxa	Challe	Boraginaceae
Corympha unbraculifere	Tale	Palmae
Cryptolepis buchananni	Karebantanaballi	Asclepiadaceae
Dalbergia latifolia	Beete	Papilionaceae
Dalbergia paniculata	Pachali	Papilionaceae
Dellenia pentagyna	Kadkanagan, Kanigalu	Dilleniaceae
Dendrocalamus strictus	Karibidaru	Graminae
Desmodium gyrans	Tantigida	Papilionaceae
Dicrostacys cinerea	Vadivara	Mimoceae
Didspyros crumanata	Kantumri	Dbenaceae
Diospyros montana	Jagalaganti	Ebenaceae

Diospyros paniculata	Karimara, karimaralu	Ebenaceae
Dipterocarpus indicus	Dhuma	Dipterocarpaceae
Disphyros embropteris	Kustaraka	Ebenaceae
Disphyros tupra	Tupra	Ebenacea
Dllenia pentagyana	Torekanagale	Dilleniaceae
Dodonia visscosa	Bandarlike	Sapindaceae
Dysoxylum malabaricum	Devagarige Devadari	Meliaceae
Elaeocarpus tuberculatus	Sttage	Tiliaceae
Eleocarpus seratus	Kyasaltette	Tiliaceae
Emblia officinales	Nelli	Euphorbaceae
Erinocarpus nimmoanus	Barangi	Tiliaceae
Erithrina stricta	Keechaka	Papilionaceae
Erythrina suberosa	Mullumutuga	Papilionaceae
Eugenia jambolana	Nerlu	Myrtaceaea
Eugenia zeylanica	Meenangi	Myrtaceae
Euonymus dichotmus	Kankutle	Celastraceaea
Ficus asprerima	Garagatti	Urticaceae
Ficus bengalensis	Ala	Urticaceae
Ficus callosa	Nirvala	Urticacea
Ficus glomerata	Arthi	Urticaceae
Ficus hispida	Nirgaragatti	Urticaceae
Ficus infectoria	Basari	Urticaceae
Ficus religiosa	Arali	Urticaceae
Flacourbia montana	Hebbalasu	Bisaceae
Flacourtia montana	Sampgihannu	Bixaceae
Fleodendron glaucum	Makarthi	Celastraceae
Flocouriba montana	Hannusampige	Bixaceae
Flocoutia sepiaria	Miridi	Bixaceae
Garcinia morella	Agasingurgi	Guttiferae
Garcinia xanthochymus	Jeerakanahule	Guttiferae
Gardenia gummifera	Bikke	Rubiaceae
Gardenia latifolia	Kallarige	Rubiaceae
Gareinia cambogia	Kadagolmuraka	Guttiferae
Garuga pinnata	Godda	Burserceae
Garuga pinnata	Olibevu	Bursenaceae
Givotia rottleriformis	Puliki	Euophoribiaceae
Glycosmis pentaphylla	Kadumaralugida	Rutaceaea
Gmelina arborea	Shivani	Verbenaceae
Goochidion zeylanicum	Nirsolle	Euphorbiaceae
Grewia tiliaefolia	Tadasalu	Tiliaceae
Gymnosparia montana	Tunadarasi	Celastraceae
Helictreres isora	Kowri	Sterculiaceae
Hemidesmus indicus	Sogade Beru	Asclepeiadaceae
Hernanda reparia	Holebasari	Ephorbiaceae
Holarrhena antidysenterica	Kodachiga	Apocynaceae

Holigarna aranottiana	Sanneleholegara	Arnacardiaceae
Holigarna beddomi	Doddeleholegara	Anacardiaceae
Holoptelia integrifolia	Tapsi	Viticaceas
Hopea parviflora	Kiralbhogi	Dipterocarpecae
Hopea wightiana	Hyga, Haiga	Dipterocarpaceae
Hydnocarpus wightiana	Garudaphala	Bixaceae
Hydnocarpus wightina	Hozape	Bixancae
Hymenodicatyon excelsum	Doddathoppe	Rubiaceae
Ichnocarpus futesecens	Karigambu	Apocyanaceae
Kydia calyenia	Bende	Malvaceae
Lagerstraoemia perviflora	Channangi	Lythraceae
Lagerstroemia floasreginae	Holedasavala	Lythraceae
Lannea granis(odinawoodier)	Goddamate	Anacardiaceae
Lansium anamallayanum	Chigatmari	Meliaceae
Lantana camara	Chandranga	Verbinaceae
Lasiosiphon eriocephalus	Mukkandaka	Thyimeleaeceae
Legerstroemia lanceolata	Nandi	Lythraceae
Lettsomia thomsoni	Uganihamby	Convoluvulaceae
Limonia Acidissima	Naibyla	Rutaceae
Linociera malabarica	Tagadatti	Oleaceae
Litsaea zeylanica	Massi	Lauraceae
Litsiea zeylanica	Sudagenasu	Lauraceae
Loranthus longiflous	Bandalike	Loranthaceae
Macaranga indica	Uppale	Euphorbiaceae
Macaranga roxburghii	Chandakala	Euphorbiaceae
Machilus macaranatha	Gulmavu	Lauraceae
Magifera indica	Mavu	Anacardiaceae
Mallotus philippinensius	Bannadamara	Euphorbiaceae
Marraya koenigii	Karibevu	Rutaceae
Melia composita	Hebbevu	Meliaceae
Melia dubia	Huchubevu	Meliaceae
Melia spp	Vishapuri	Meliaceae
Memecylon spp	Arichapla	Melastomaceae
Mesua ferrea	Nagasampige	Guttiferae
Michelia champaka	Sampige	Manganoliaceae
Mimoasa pudica	Muttideremuni	Mimoseae
Mitragyna parvifolia	Kadavala	Rubiceae
Mucuna artopururea	Nasaguni	Papilionaceae
Myristica magnifica	Ramanadike	Myristicacaea
Myristica malabarica	Ramapatre	Myristicaceae
Nephelium longana	Sannelekendal	Sapindaceae
Ochlandra travancoria	Votebiduru	Graminae
Ochna squarrosa	Madli	Burseraceae
Ochrocaprus lingifolius	Suragi	Guttiferae
Olea dioica	Sadle	Oleaceae
Ougeinia dalbergioides	Bettadahonne	Papilionaceae

Oxytenanthara stocksii	Pannangi	Graminae
Palaquium ellipticum	Hadasale	Sapotaceae
Pandanus odoratissimus	Kyadige, kedige	Pandanaceae
Pavetta indica	Pavate	Rubiceae
Phoenix spp	Karichalu	Plamae
Phoenix sylvestris	Ichalu	Palmae
Plumeria acutifolia	Devakanigal	Apocyanaceae
Poe iloneuron indicum	Balagi	Guttigerae
Polyalthia fragrans	Maragowri	Anonaceae
Pongamia glabra	Honge	Papilionaceae
Pongamia glabra	Tarangala	Papili onaceae
Premua tomentosa	Eaji	Verbenaceae
Psychotria spp	Ottumadikay, kankalli	Rubiaceae
Pterocarpus marsupium	Honne	Papilionaceae
Pterospermum suberifoum	Sownamara	Sterculiaceae
Putranjiva roxburghii	Putranjeeva	Euophbiaceae
Randia dumetorum	Maggare	Rubiaceae
Randia spp	Kare	Rubiaceae
Saccopetalum tomentosum	Ubalu	Anonaceae
Salix tetrosperma	Niranji	Salicaceae
Santala album	Gandha	Santalaceae
Saraca indica	Asoka	Caesalpinae
Schleichera trijunga	Kendala	Spindaceae
Schleichere trijuga	Sagade	Sapindaeae
Sehrebera swietenioides	Gante	Oleaceae
Semicarpus anacaridum	Geru	Anacadrdiaceae
Shorea talura	Jalari, Jala, Jalgiri	Dipterocaeae
Smilax prolifera	Karanarigedde	Liliaceae
Someda febrifunga	Some	Meliaceae
Spatholobus roxburghil	Kadavarehamabu	Papilionaceae
Spindus emarginatus	Antavala	Uspindaceae
Spondias mangifera	Amate	Anacardiaceae
Sterculia foetiadia	Peerani	Sterculiaceae
Sterculia foetida	Kallodakanamara	Sterculiaceae
Sterculia guttaca	Hulithoradu,Hulimara, Hulikordu	Strerculiaceae
Sterculia villosa	Savige	Sterculiaceae
Stereospermum chellonoides	Kaladri	Bignoniaceae
Stereospermum chelnoides	Lingadara	Bignoniaceae
Stereospermum xylocarpum	Genasu	Bignoniaceae
Steriospermum spp	Gante	Bignoniaceae
Sterospermum suaveolens	Padri	Bignoeiaceae
Sterospermumpp	Kadunugge	Bignonoiaceae
Strobilanthus spp	Gurgi	Acanthaceae
Strychnos nuxvomica	Nanjanakoradu	Loganiaceae
Strychnos potatorum	Chilla	Loganiaceae
Symplocos spicata	Chunga	Styracaceae

Tabernae montana dichotama	Maddarasa	Apocynaceae
Tabernaemontana heyneana	Maddlemara	Apocynaceae
Tectona grandis	Saguavni	Verbenaceae
Terminalia arjuna	Bilimatti	Combrataceae
Terminalia arjuna	Torematti	Combretaceae
Terminalia bellerica	Tare	Combrefaceae
Terminalia Chebula	Alale	Combretaceae
Terminalia tomentsoa	Matti	Combretaceae
Toddalia aculeata	Kadumenasu	Rutaceae
Trema orientalis	Gorkuu	Urticaceae
Trewia nudiflora	Kadukumbala	Euphorbiaceae
Urena lofata	Kogumani	Malvaceae
Vitex alata	Nirnaviladi	Verbenaceae
Vitex altissima	Naviladi	Verbenaceae
Vitex negundo	Lakkigida	Verbenaceae
Vitis quadrangularia	Perande	Vitaceae
Wenolandia spp	Kansurgi	Rubiaceae
Wrightia tinctoria	Beppale	Apocynaceae
Wrightia tinctoria	Hale	Apocynaceae
Wrightia tinetoria	Ale	Apocynaceae
Zanthoxylum rhetsa	Jummanamara	Rutaceae
Zizyphus jujuba	Elachi	Rhamanaceae
Zizyphus oenoplia	Sodli (Paragi)	Bhamnaceae
Zizyphus rugosa	Bilimaralahannu	Rhamnaceae
Zizyphus xyloprya	Chatte, chotte	Rhamnaceae

Annexure – 6a

List of Animals found in Sagar Division.

MAMMALS

Sl No	Latin Names	Kannada Name	Common Names
1.	*Macaca sinica* (Linn)	Kapi	The Bonnet Monkey
2.	*Pithecus entellus* (Blyth)	Musiya	Hanuman Monkey
3.	*Loris lydekkerianus* (Car)	Kadupapa	Mysore Slender Loris
4.	*Felis tigris* (Linn)	Huli, Dodhuli, Pattehuli	The Tiger
5.	*Felis affinis* (Grey)	Kadubekku	The Jungle Cat
6.	*Acinonyx venaticus*	Kiruba	The Hunting Leopard or Cheetah
7.	*Mongos Mongo mungo* (Geml)	Mungasi	The Indian Mungoose
8.	*Canis indicus* (Hodgs)	Nari	The Indian Jackal
9.	*Lutra lutra* (linn)	Nirunayi	The common Otter
10.	*Melurus ursinus* (Shaw)	Karadi	The Sloth Bear
11.	*Tragulus Memianna* (Erxl)	-	The Indian Chevrothin, Mouse Deer.
12.	*Pteropus giganteus giganteus*	-	The Indian flying Fox
13.	*Lyroderma lyra lyra* (Geoff)	-	The Vampire Bat
14.	*Petaurista philippensis* (Elli)	Harubekku	The South Indian Flying Squirrel.
15.	*Seiurus Malabaricus* (Linn)	Kendalilu	The Red Squirrel the Malaber Squirrel.
16.	*Bibos gaurus* (H.Sm.)	Kati, Kadukona	The Gaur, The Bison
17.	*Muntiacus Vaginalis* (Bodd)	Kadukuri	The Barking Deer,
18.	*Rusa unicolor* (Beehs)	Kada, Kadave	The Sambhur
19.	*Axis axix*	Saranga	The spotted Deer
20.	*Sus cristatus* (Wagn)	Kaduhandi	The Indian Wild Boar
21.	*Hystrix leucra* (Sykes)	Mullahandi	The Indian Porcupine
22.	*Manis crassicaudata* (Geoff)	Chippuhandi	The Indian Pangolin.
23.	*Sus cristanus (Wagn)*	Kaduhandi	The Indian wild boar
24.	*Hystrux tencura (Syres)*	Mulluhandi	The Indian porcupine
25.	*Mansi carassicaudata (Genn)*	Chippulhandi	The Indian Pangolin

BIRDS

Sl No	Latin Names	Kannada Name	Common Names
1.	*Corvus macrorhyncus* (Eagl)	Kage	The Jungle Crow
2.	*Palaeornis torquatus* (Bodd)	Gili,Gini	The Common Indian Parrot
3.	*Neophron ginginianus* (Lath)	Haddu	The Vulture
4.	*Hahastur indus* (Bodd)	Garuda	The Brahminy Kite
5.	*Crocopus chlorogaster* (Bluth)	Bilava	The Green Pigeon
6.	*Columba intermedia* (Strickil)	Kaduparivala	The Blue rock Pigeon
7.	*Pavo Cristatus* (Linn)	Navilu	The Pen fowl
8.	*Gallus sonnerati* (Temm)	Kadukoli	The gray Jungle fowl
9.	*Galloperdix spadicea* (Gu)	Chittagoli	The Red Sour fowl
10.	*Francolinus pondicerians* (Gm)	Gowjalakki	The Grey Partridge
11.	*Sarcidiornis melanonotus* (Penn)	Nirukoli	The Comb Duck
12.	*Dendrocyena javanica* (Horsf)		The Whistling Teal
13.	*Nettium crecea* (Linn)		The Common Teal
14.	*Gallus Bankiva Murghi*	Kempu Kadukoli	The Red Jungle Fowl
15.	*Dendrocittarufa*	Matapakshi	The Tree pie
16.	*Dumetia hyperithra*	Chirapakshi	The Rufous-Hellied Babbler
17.	*Otocompsa jocosa fuscicaudata*	Kembumise bulbul	The Southern Red Whiskered Bul Bul.
18.	*Saxicoloides cambaiensis*	Buda balatuti	The Indian Robin
19.	*Pienonotus luteolus*	Bul Bul	The white browed Bul-Bul
20.	*Tehitrea paradisi*	Rajahakki	The Paradise Flycatcher
21.	*Cyornis tickellioe*	Nili-Rajahakki	Tickells Blue Flycatcher.
22.	*Tephrodornis pondiceriana*	Bharadwaja	The common woodshrike
23.	*Pericrocotus speciosus*	Chtrapakshi	The Scarlet Minivet
24.	*Dicrurus macrocerus*	Kare Bharadwaja	The King Crow.
25.	*Dissemurus malabaricus*	Bharadwaja	The Rocket tailed drongo
26.	*Orthotornus sctorius*	Chippaganahakki	The Tailor Bird.
27.	*Acredotheres tristis*	Goravantehakki	The Coomo Myna
28.	*Gymnoris Xanthocolis*	Kadugubhachi	The Yellow throated Sparrow.
29.	*Hirundo rustica*	Bannakki	The Common Sallow
30.	*Hirundo filifera*	Tantihanakki	Wire tailed Swallow
31.	*Dicoeum erythrorhyncum*		Tickells Flower Pecker

32.	*Leiopicus blanfordii*	Marakatiga	Yellow Fronted pied wood pecker
33.	*Centropus parroti*	Kempukage, Kembutha	The Southern crow pheasant.
34.	*Alcedo benghalensis*		The common King Fisher
35.	*Sarcogyps calvus*	Ranahaddu	The Black Vulture
36.	*Milvas Migrans govinda*		The Pariah Kite
37.	*Astur dussumieri*	Shikara	The Indian Shikhara
38.	*Oenopopelia transquebarica*	Galava	The red turtle dove
39.	*Amaurornis phoenicurus*	Nirakoli	The white breasted water hen
40.	*Bubulcus coromandus*		The cattle egret
41.	*Nettion crecca*		The common Teal
42.	*Demdrocygna javanica*	Nirubatu	The common whistling Teal
43.	*Niroca rufa*	Batu	The white Bye.

REPTILES

Sl No	Latin Names	Kannada Name	Common Names
1.	*Crocodilus palustris* (Less)	Mosale	The Mugger
2.	*Testudo elegans* (Schoep)	Ame	The land Tortoise
3.	*Gonotodes mysorenisi* (Gord)	Uda	The Monitor Lizard
4.	*Calotes versicolor* (Dand)	Hentegooda	
5.	*Chameleon calcaratus* (Merrem)	Hentegooda	The Chameleon
6.	*Python molures* (Linn)	Hebbau	The Python
7.	*Tropidonotus stolatus* (Linn)	Hasaru Havu	The Common Green Snake
8.	*Bungarus coeruleus* (Schn)	Kattuhavu	The Krait
9.	*Naja tripudians* (Merr)	Nagarahavu	The Cobra
10.	*Vipera russellii* (Shaw)	Kalinga Sarpa, Karinagara	Viper King Cobra

AMPHIBIANS

Sl No	Latin Names	Kannada Name	Common Names
1.	*Rana hexadactyla* (Less)	Hasarukappe	The Green tank frog.
2.	*Rantigrina* (Dand)	Mamadakappe	The Bull frog
3.	*Rana cyanophlyctis* (Schneid)		The Concer frog
4.	*Rang curupes (Jerd)*		
5.	*Rana malabarica* (Dum)	Malekappa,	The Tree frog
6.	R*hacophorus pleurostictus* (Gunth)	Maradakappa	The Tree frog
7.	*Rana verrucosa*		

8.	*Kalloula* spp	Balemaradakappe	The Plantain frog.
9.	*Microhylarubra*		
10.	*Microholaornata*		
11.	*Cacopes systoma*		

FISHES

Sl No	Latin Names	Kannada Name	Common Names
1.	*Clarias batrachus* (Linn)	Anaminu	The Black cat fish
2.	*Saccobranchus fossilis* (Block)	Chelumiu	Scorpion fish
3.	*Wallago attu* (Bloche)	Balwminu	
4.	*Callichrous bimaculatus* (Bloche)		Butter fish
5.	*Pseudotropius atheronoides* (Bloche)		Lady fish
6.	*Macrones vittatus* (Block)		Pidler
7.	*Macrenes aor* (H.B.)		
8.	*Barbus tor* (H.B.)	Biliminu, Masheer	
9.	*Barbus neilli* (Day)	Biliminu, Masheer	
10.	*Berbus sarana* (H.B.)	Gid Pakke	
11.	*Labeo kontius* (Jerd)	Handikurulu	
12.	*Labeo boga* (H.B.)	Mada Kurlu	
13.	*Mastocembalus armatus* (Lacep)	Havuminu	The Muriel
14.	*Ophioce halus puntatus* (H.B.)	Kacuminu	
15.	*Oleucopunctatus gachua* (H.B.)	Korave	

Annexure - 7

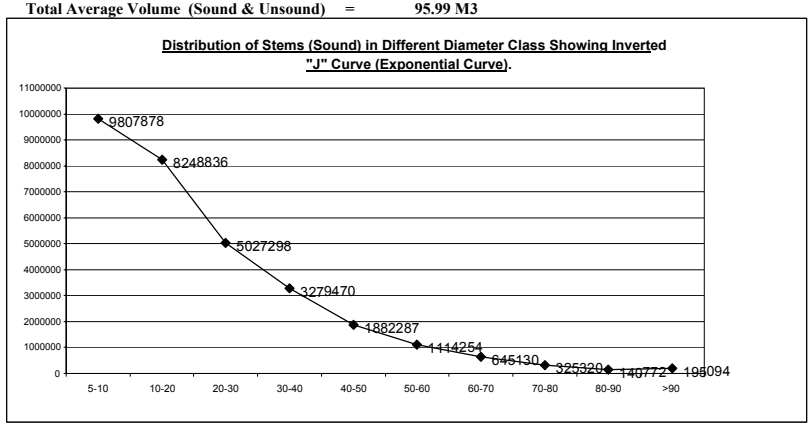
Statement Showing The Species Wise Growing Stock In Sagar Forest Division

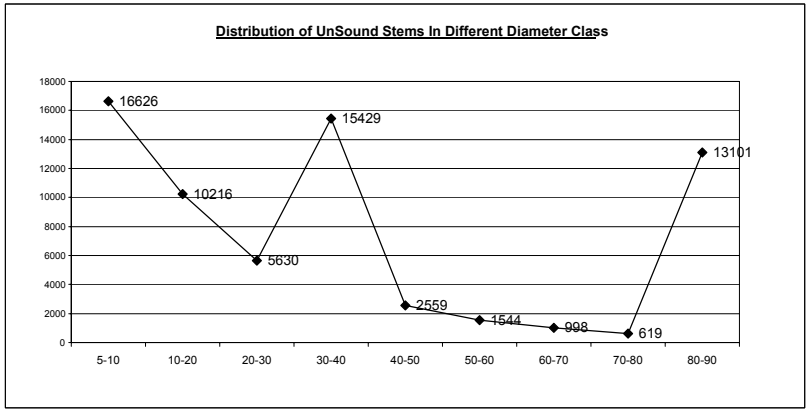
Sl. No.	Name of species	SP Code	Number of Trees in Diameter Class in Cms. (Sd-Sound, Usd-Unsound)																				Grand total	Species frequency	% SD	% Usd
			5 Sd	10 Usd	10 Sd	20 Usd	20 Sd	30 Usd	30 Sd	40 Usd	40 Sd	50 Usd	50 Sd	60 Usd	60 Sd	70 Usd	70 Sd	80 Usd	80 Sd	90 Usd	90 Sd	Total	Total				
1	**Adina cordifolia (Yethiga)**	008	25061	198	34462	237	19580	97	15137	99	8871	97	5310	0	4083	0	2567	99	1819	0	2193	119083	827	119910	0.39	0.39	1
	Basal Area (3.142(D/2)^2)		111	1	609	4	961	5	1457	10	1411	15	1262	0	1355	0	1134	44	1032	0	1555	10887	79	10965			
	Volume= BA*Ht*FF		55	0	914	6	2307	11	6117	40	6420	70	8075	0	9756	0	10208	394	10788	0	16246	70887	522	71409			
2	**Artocarpus hirsuta (Hebbalasu)**	021	19781	0	21085	0	14318	0	10670	0	10399	0	5878	0	2903	0	1078	0	455	0	847	87413	0	87413	0.29	0.29	0
	BA (3.142(D/2)^2)		87	0	373	0	703	0	1027	0	1654	0	1397	0	963	0	476	0	258	0	600	7539	0	7539			
	Volume= BA*Ht*FF		44	0	559	0	1687	0	4312	0	7526	0	8939	0	6936	0	4287	0	2698	0	6275	43262	0	43262			
3	**Cordia macloedii (Hadaga)**	227	11291	158	11971	0	13379	0	2568	0	1023	130	264	0	189	0	0	0	0	0	0	40685	288	40973	0.13	0.13	0
	BA (3.142(D/2)^2)		50	1	212	0	657	0	247	0	163	21	63	0	63	0	0	0	0	0	0	1454	21	1475			
	Volume= BA*Ht*FF		25	0	317	0	1576	0	1038	0	740	94	401	0	452	0	0	0	0	0	0	4550	94	4644			
4	**Dalbergia latifolia (Beete)**	002	41064	0	31864	196	29730	0	27236	0	13215	0	3680	0	2555	0	0	0	61	0	642	150046	196	150242	0.49	0.49	0
	BA (3.142(D/2)^2)		181	0	563	3	1460	0	2621	0	2102	0	874	0	848	0	0	0	35	0	455	9139	3	9142			
	Volume= BA*Ht*FF		91	0	845	5	3503	0	11007	0	9564	0	5596	0	6105	0	0	0	362	0	4756	41829	5	41834			
5	**Diospyros ebenum (Karimara)**		290	0	128	0	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	546	0	546	0.00	0.00	0
	BA (3.142(D/2)^2)		1	0	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10			
	Volume= BA*Ht*FF		1	0	3	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	19			
6	**Dysoxylum malabaricum (White cedar)**		4706	0	1807	0	2595	0	1665	0	336	0	1802	0	1596	0	449	0	0	0	636	15592	0	15592	0.05	0.05	0
	BA (3.142(D/2)^2)		21	0	32	0	127	0	160	0	53	0	428	0	530	0	198	0	0	0	451	2001	0	2001			
	Volume= BA*Ht*FF		10	0	48	0	306	0	673	0	243	0	2740	0	3814	0	1785	0	0	0	4712	14331	0	14331			
7	**Hopea parviflora (Bhogi)**		0	0	0	0	0	0	0	0	0	0	0	0	274	0	0	0	0	0	0	274	0	274	0.00	0.00	0
	BA (3.142(D/2)^2)		0	0	0	0	0	0	0	0	0	0	0	0	91	0	0	0	0	0	0	91	0	91			
	Volume= BA*Ht*FF		0	0	0	0	0	0	0	0	0	0	0	0	655	0	0	0	0	0	0	655	0	655			
8	**Lagerstroemia lanceolata (Nandi)**	005	239304	0	231196	99	167495	0	159063	155	139366	0	90241	0	59478	232	32531	130	12436	260	19809	1150918	876	1151794	3.75	3.75	1
	BA (3.142(D/2)^2)		1057	0	4086	2	8223	0	15306	15	22168	0	21442	0	19739	77	14374	57	7058	148	14043	127496	299	127795			
	Volume= BA*Ht*FF		529	0	6129	3	19735	0	64284	63	100864	0	137232	0	142122	554	129363	517	73753	1542	146748	820759	2679	823437			
9	**Manilkara roxburghiana (Ranja)**	258	88708	0	73087	0	45857	0	28677	0	18559	0	13853	0	5673	0	4762	0	2098	0	446	281720	0	281720	0.92	0.92	0
	BA (3.142(D/2)^2)		392	0	1292	0	2251	0	2759	0	2952	0	3292	0	1883	0	2104	0	1191	0	316	18432	0	18432			
	Volume= BA*Ht*FF		196	0	1938	0	5403	0	11590	0	13432	0	21067	0	13556	0	18937	0	12442	0	3304	101863	0	101863			
10	**Neolitsea zeylanica (Massi)**	029	9430	0	7107	0	5777	0	4376	0	2886	0	1531	0	1611	0	40	0	0	0	1090	33848	0	33848	0.11	0.11	0
	BA (3.142(D/2)^2)		42	0	126	0	284	0	421	0	459	0	364	0	535	0	18	0	0	0	773	3020	0	3020			
	Volume= BA*Ht*FF		21	0	188	0	681	0	1769	0	2089	0	2328	0	3849	0	159	0	0	0	8075	19159	0	19159			
11	**Pterocarpus marsupium (Honne)**	004	73187	25	27458	17	22056	0	26788	768	10671	0	13803	0	5436	0	2519	0	2942	0	648	185508	810	186318	0.60	0.60	1
	BA (3.142(D/2)^2)		323	0	485	0	1083	0	2578	74	1697	0	3280	0	1804	0	1113	0	1670	0	459	14492	74	14567			
	Volume= BA*Ht*FF		162	0	728	0	2599	0	10826	310	7723	0	20991	0	12989	0	10017	0	17448	0	4800	88283	311	88594			
12	**Syzygium cumini (Neralu)**	012	121797	144	117427	325	72482	63	67072	2031	41510	8	31780	0	17840	0	12778	0	11860	5653	16980	511526	8224	519750	1.67	1.67	12
	BA (3.142(D/2)^2)		538	1	2075	6	3558	3	6454	195	6603	1	7551	0	5921	0	5646	0	6731	3208	12037	57115	3414	60529			
	Volume= BA*Ht*FF		269	0	3113	9	8540	7	27106	821	30043	6	48329	0	42629	0	50813	0	70337	33526	125790	406969	34369	441338			
13	**Santalum album (Sandal)**	003	10897	0	1711	0	1598	0	275	0	0	0	275	0	550	0	0	0	0	0	0	15306	0	15306	0.05	0.05	0
	BA (3.142(D/2)^2)		2665	0	12636	0	29283	0	11607	0	0	0	8597	0	19831	0	0	0	0	0	0	84621	0	84621			
	Volume= BA*Ht*FF		1333	0	18955	0	70280	0	48750	0	0	0	55021	0	142786	0	0	0	0	0	0	337125	0	337125			
14	**Tectona grandis (Teak)**	001	136210	0	176593	0	155199	0	68334	0	4952	0	470	0	112	0	0	0	0	0	0	541869	0	541869	1.77	1.77	0
	BA (3.142(D/2)^2)		602	0	3121	0	7619	0	6575	0	788	0	112	0	37	0	0	0	0	0	0	18854	0	18854			
	Volume= BA*Ht*FF		301	0	4682	0	18286	0	27616	0	3584	0	715	0	268	0	0	0	0	0	0	55452	0	55452			
15	**Terminalia belerica (Thare)**	061	87281	8	64555	0	34091	0	41479	789	38936	0	26186	0	18120	0	11372	0	6050	130	8992	337062	927	337989	1.10	1.10	1
	BA (3.142(D/2)^2)		386	0	1141	0	1674	0	3991	76	6193	0	6222	0	6013	0	5025	0	3433	74	6375	40453	150	40603			
	Volume= BA*Ht*FF		193	0	1711	0	4017	0	16763	319	28180	0	39821	0	43297	0	45222	0	35879	771	66615	281698	1090	282788			
16	**Terminalia paniculata (Hunalu)**	007	757563	835	571216	1443	330765	99	250683	469	164066	969	88410	274	60210	0	27614	390	13192	1611	13536	2277256	6090	2283346	7.43	7.43	9
	BA (3.142(D/2)^2)		3347	4	10096	26	16239	5	24122	45	26097	154	21008	65	19982	0	12201	172	7487	914	9596	150173	1385	151558			
	Volume= BA*Ht*FF		1674	2	15143	38	38972	12	101311	190	118741	701	134448	417	143871	0	109810	1551	78237	9554	100277	842484	12464	854948			
17	**Terminalia tomentosa (Mathi)**	006	349946	633	244526	989	204270	982	162143	396	111009	0	53970	207	29244	0	16189	0	4678	0	5403	1181378	3207	1184585	3.85	3.85	5

	BA (3.142(D/2)^2)		1546	3	4322	17	10028	48	15602	38	17658	0	12824	49	9705	0	7153	0	2655	0	3830	85324	156	85479			
	Volume= BA*Ht*FF		773	1	6483	26	24068	116	65528	160	80342	0	82074	315	69878	0	64377	0	27746	0	40026	461295	618	461913			
18	**Vitex altissima (Naviladi)**	016	44259	0	49435	0	32628	0	19128	789	14674	0	12321	0	8529	0	3776	0	1873	2367	5300	191922	3156	195078	0.63	0.63	5
	BA (3.142(D/2)^2)		196	0	874	0	1602	0	1841	76	2334	0	2928	0	2831	0	1668	0	1063	1343	3757	19092	1419	20512			
	Volume= BA*Ht*FF		98	0	1311	0	3844	0	7730	319	10620	0	18737	0	20380	0	15016	0	11108	14038	39263	128106	14357	142463			
19	**Xylia xylocarpa (Jambe)**	017	534284	0	465348	0	451605	97	309884	68	143165	408	49908	0	23215	0	9121	0	2873	0	1074	1990477	573	1991050	6.49	6.49	1
	BA (3.142(D/2)^2)		2361	0	8224	0	22171	5	29818	7	22772	65	11859	0	7704	0	4030	0	1630	0	761	111332	76	111408			
	Volume= BA*Ht*FF		1180	0	12337	0	53210	11	125236	27	103614	295	75896	0	55472	0	36271	0	17039	0	7956	488211	334	488546			
20	**Miscellaneous**		7252819	14625	6117861	6910	3423746	4292	2084293	9865	1158649	947	714573	1063	403513	766	200524	0	80435	3080	117497	21553912	41548	21595460	70.34	70.29	62
	BA (3.142(D/2)^2)		32046	65	108126	122	168085	211	200559	949	184299	151	169792	253	133915	254	88600	0	45649	1748	83296	1214366	3752	1218118			
	Volume= BA*Ht*FF		16023	32	162188	183	403403	506	842346	3987	838561	685	1086672	1617	964191	1830	797402	0	477030	18266	870438	6458254	27107	6485361			
	Total Species		**9807878**	**16626**	**8248836**	**10216**	**5027298**	**5630**	**3279470**	**15429**	**1882287**	**2559**	**1114254**	**1544**	**645130**	**998**	**325320**	**619**	**140772**	**13101**	**195094**	**30666340**	**66722**	**30733062**	**100**	**100**	**100**
	Total BA (3.142(D/2)^2)		**45953**	**73**	**158394**	**181**	**276014**	**276**	**327144**	**1485**	**299404**	**407**	**273294**	**367**	**233751**	**331**	**143741**	**274**	**79892**	**7435**	**138305**	**1975889**	**10829**	**1986718**			
	Total Volume= BA*Ht*FF		**22976**	**37**	**237591**	**271**	**662433**	**663**	**1374003**	**6235**	**1362286**	**1852**	**1749081**	**2348**	**1683005**	**2385**	**1293665**	**2462**	**834867**	**77697**	**1445282**	**10665190**	**93950**	**10759140**			

Average Basal Area (Sound) 18191699/108604.79 = 17.42
Average Basal Area (Unsound) 10829/108604.79 = 0.10
Total Average Basal Area (Sound & Unsound) = 17.52 Sqm/ha

Average Volume (Sound) 10330167/108604.79 = 95.12 M3
Average Volume (Unsound) 93950/108604.79 = 0.87 M3
Total Average Volume (Sound & Unsound) = 95.99 M3





The curve exhibit a trend that, at 30-40 cm dia, the population of unsound/damaged trees are very high in number. This is mainly due to the hacking of trees by the local people for poles purpose, which are required for agricultural implements. Further at 70-80 cm dia, once again the population of unsound trees is considerably high due to maturity and detcrioration after attaning 60-70 cm dia.

Annexure - 8

Statement Showing the allocations of forest areas to different working circles in Sagar forest division.

Sl. No	Name of the Forest		Block & Compt.	Extent Ha.	Bio-Diversity WC 5				RDF WC	I W C	Bamboo overlapping WC	Afforestation and Plantation Management WC							MFP Ol WC	SO WC	Area under Sharavathi Wildlfie sanctuary	KFDC	MPM
					BDHS Mang	Grassy Blanks	ET Mang	GWRW H S				AFPSTF	JFPM	Acacia	Grassy Blanks	Teak	Eucalyptus	Encroachment					
1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
a)	**Ambligola**																						
	Belandur	SF	XII-5(p)	137.50	-	-	-		-	55.50	-	-	-	-	-	-	-	-	82.00	55.50	137.50		-	-
			XII-6	466.56	-	-	-		268.56	-	-	-	-	-	-	-	-	-	198.00	268.56	466.56		-	-
			XII-7	334.09	-	-	-		-	247.09	247.09	-	-	-	-	-	-	-	87.00	247.09	334.09		-	-
			XII-8	363.8	-	-	-		-	203.80	303.80	-	100.00	-	-	-	-	-	60.00	303.80	363.80		-	-
			XII-9(P)	68.46	-	-	-		58.46	-	58.46	-	-	-	-	-	-	-	10.00	58.46	68.46		-	-
			XII-10	390.29	-	-	-		-	261.39	54.18	-	-	8.00	-	80.90	-	-	40.00	54.18	390.29		-	-
			XII-11	378.52	-	-	-		-	300.50	-	-	-	-	-	62.02	-	-	16.00	-	378.52		-	-
			XII-12	383.29	-	-	-		-	372.59	-	-	-	-	-	-	-	-	10.70	-	383.29		-	-
			XII-13	494.3	-	-	-		-	422.30	422.30	-	-	-	-	-	-	-	72.00	422.30	494.30		-	-
			XII-14	458.03	-	-	-		-	278.03	-	-	-	-	-	-	-	-	180.00	278.03	458.03		-	-
			XII-15	460.56	-	-	-	460.56	-	460.56	-	-	-	-	-	-	-	-	-	460.56	460.56		-	-
			XII-16	429.46	-	-	-	429.46	-	282.46	-	-	-	-	-	-	-	-	147.00	282.46	429.46		-	-
			XII-17	452.00	-	-	-	452.00	-	241.00	-	-	211.00	-	-	-	-	-	-	241.00	452.00		-	-
			XII-18	523.63	-	-	-		-	423.63	-	-	100.00	-	-	-	-	-	-	423.63	523.63		-	-
			XII-19	238.61	-	-	-	238.61	-	178.61	-	-	-	-	-	-	-	-	-	178.61	238.61		60.00	-
				5579.10	**0.00**	**0.00**	**0.00**	**1580.63**	**327.02**	**3727.46**	**1085.83**	**0.00**	**411.00**	**8.00**	**0.00**	**142.92**	**0.00**	**902.70**	**3274.18**	**5579.10**	**0.00**	**60.00**	**0.00**
	Kardibetta	SF	XI-5	118.05	-	-	-	118.05	-	-	-	-	91.05	-	-	-	-	27.00	-	-		-	-
			XI-6	230.69	-	-	-	230.69	-	-	-	-	180.69	-	-	-	-	50.00	-	-		-	-
			XI-7	238.58	-	-	-	238.58	141.58	-	141.58	-	-	-	-	38.00	-	59.00	141.58	-		-	-
			XI-8	195.63	-	-	-	195.63	4.04	-	-	-	-	-	-	162.59	-	9.00	4.04	-		20.00	-
			XI-9	229.82	-	-	-		75.34	-	75.34	-	-	-	-	80.00	-	54.00	75.34	-		20.48	-
			XI-10	109.93	-	-	-		28.23	-	28.23	-	-	-	-	60.00	-	21.70	28.23	-		-	-
			XI-11	275.87	-	-	-		44.87	-	-	-	-	-	-	178.00	-	53.00	44.87	-		-	-
			XI-12	222.81	-	-	-	222.81	-	222.81	222.81	-	-	-	-	-	-	-	222.81	-		-	-
			XI-13	127.67	-	-	-		-	108.67	-	-	-	-	-	-	-	19.00	108.67	-		-	-
			XI-14	168.78	-	-	-	168.78	-	-	-	-	168.78	-	-	-	-	-	-	-		-	-
			XI-15	329.17	-	-	-	329.17	-	-	-	-	184.69	-	-	-	-	104.00	-	-		40.48	-
			XI-16	223.55	-	-	-		-	-	-	-	160.55	-	-	-	-	63.00	-	-		-	-
			XI-17	178.75	-	-	-		-	-	-	-	158.75	-	-	-	-	20.00	-	-		-	-
			XI-18	312.45	-	-	-		-	-	-	-	259.97	-	-	-	-	12.00	-	-		40.48	-
			XI-19	190.55	-	-	-		-	-	-	-	167.55	-	-	-	-	23.00	-	-		-	-
			XI-20	144.92	-	-	-		-	-	-	-	110.92	-	-	-	-	34.00	-	-		-	-
			XI-21	260.05	-	-	-		-	182.05	182.05	-	-	-	-	-	-	78.00	182.05	-		-	-
			XI-22(P)	167.19	-	-	-		165.19	-	-	-	-	-	-	-	-	2.00	165.19	-		-	-
			XI-26(P)	171.48	-	-	-		67.00	-	-	-	-	-	-	104.48	-	-	67.00	-		-	-
			XI-27(P)	245.21	-	-	-		0.91	-	-	-	-	-	-	84.73	-	159.57	0.91	-		-	-
			XI-28(P)	149.12	-	-	-		-	118.12	118.12	-	-	-	-	-	-	31.00	118.12	-		-	-
			XI-30	210.24	-	-	-		-	186.24	-	-	-	-	-	-	-	24.00	186.24	-		-	-
			XI-31	293.78	-	-	-		-	166.78	-	-	-	-	-	-	-	127.00	166.78	-		-	-
			XI-32(p)	102.20	-	-	-		-	70.20	-	-	-	-	-	-	-	32.00	70.20	-		-	-
			XI-33(p)	61.25	-	-	-		61.25	-	-	-	-	-	-	-	-	-	61.25	-		-	-
				4957.74	**0.00**	**0.00**	**0.00**	**1503.71**	**588.41**	**1054.87**	**768.13**	**0.00**	**1482.95**	**0.00**	**0.00**	**707.80**	**0.00**	**1002.27**	**1643.28**	**0.00**		**121.44**	**0.00**

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
	Bennur	MF	XII-20	471.30	-	-	-		-	-	-	262.07	-	-	-	-	-	100.00		471.30		109.23	-
	Haraginbalu	MF	XI-2	976.06	-	-	-		-	-	-	530.31	-	-	-	-	-	211.00		976.06		234.75	-
	Hariharapura	MF	XI-41	150.55	-	-	-		-	-	-	83.48	-	-	-	24.07	-	43.00		150.55		-	-
	Hireharka	MF	XI-42	202.75	-	-	-		-	-	-	-	-	-	-	80.16	-	20.00		202.75		102.59	-
	Kalmane	MF	XI-4	173.38	-	-	-		-	-	-	-	2.66	-	-	60.72	-	10.00		173.38		100.00	-
	Kotipura	MF	XII-21	314.70	-	-	-		-	-	-	-	-	-	-	-	-	268.95		314.70		45.75	-
	Kotta	MF	IX-10 (P)	68.34	-	-	-		25.34	-	-	-	-	-	-	-	-	43.00	25.34	68.34		-	-
	Madarahalli	MF	XI-3	145.69	-	-	-		-	-	-	-	73.69	-	-	-	-	72.00	-	145.69		-	-
	Nadavalli	MF	XII-22	167.95	-	-	-		-	-	-	89.95	-	-	-	-	-	78.00	89.95	167.95		-	-
	Salur	MF	XI-1	224.20	-	-	-		16.48	-	-	-	-	-	-	-	-	90.00	16.48	224.20		117.72	-
	Suthabande	MF	IX-12 (P)	178.58	-	-	-		-	-	-	-	-	-	-	20.00	-	158.58	-	178.58		-	-
			IX-13(P)	42.30	-	-	-		42.30	-	-	-	-	-	-	-	-	-	42.30	42.30		-	-
				220.88	**0.00**	**0.00**	**0.00**	**0.00**	**42.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**20.00**	**0.00**	**158.58**	**42.30**	**220.88**		**0.00**	**0.00**
				13652.64	**0.00**	**0.00**	**0.00**	**3084.34**	**999.55**	**4782.33**	**1853.96**	**965.81**	**1970.30**	**8.00**	**0.00**	**1035.67**	**0.00**	**2999.50**	**5091.53**	**8694.90**		**891.48**	**0.00**
b)	**Anandpuram**																						
	Chipli	SF	XIII-6	292.37	-	-	-		-	-	-	56.37	-	-	-	216.00	-	20.00	56.37	292.37		-	-
			XIII-7	232.03	-	-	-		-	-	-	30.10	-	-	-	-	-	40.00	30.10	232.03		161.93	-
				524.40	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**86.47**	**0.00**	**0.00**	**0.00**	**216.00**	**0.00**	**60.00**	**86.47**	**524.40**		**161.93**	**0.00**
	Chipli Aigenbylu	SF	XIII-24	190.22	-	-	-		-	112.60	-	-	-	-	-	-	-	50.00	112.60	190.22		18.62	9.00
	Gilalgundi	SF	XIV-3	153.55	-	-	-		-	138.55	138.55	-	-	-	-	6.00	-	9.00	138.55	153.55		-	-
			XIV-4	99.92	-	-	-		-	93.92	93.92	-	-	-	-	-	-	6.00	93.92	99.92		-	-
			XIV-5	357.46	-	-	-		-	237.96	237.96	-	-	-	-	92.50	-	10.00	237.96	357.46		17.00	-
			XIV-6	211.65	-	-	-		-	197.65	-	-	-	-	-	-	-	14.00	197.65	211.65		-	-
			XIV-7	299.73	-	-	-		-	289.73	289.73	-	-	-	-	-	-	10.00	289.73	299.73		-	-
				1122.31	**0.00**	**0.00**	**0.00**		**0.00**	**957.81**	**760.16**	**0.00**	**0.00**	**0.00**	**0.00**	**98.50**	**0.00**	**49.00**	**957.81**	**1122.31**		**17.00**	**0.00**
	Kardibetta	SF	XI-22(P)	41.79	-	-	-		-	41.79	-	-	-	-	-	-	-	-	41.79	41.79		-	-
			XI-23	184.01	-	-	-		132.01	-	-	-	-	-	-	52.00	-	-	132.01	184.01		-	-
			XI-24	117.72	-	-	-		-	34.44	-	-	-	-	-	44.28	-	39.00	34.44	117.72		-	-
			XI-25	282.40	-	-	-		-	80.01	-	-	-	-	-	160.39	-	42.00	80.01	282.40		-	-
			XI-26(P)	42.86	-	-	-		-	18.86	18.86	-	-	-	-	-	-	24.00	18.86	42.86		-	-
			XI-27(P)	43.27	-	-	-		-	43.27	43.27	-	-	-	-	-	-	-	43.27	43.27		-	-
			XI-28(P)	99.41	-	-	-		-	99.41	99.41	-	-	-	-	-	-	-	99.41	99.41		-	-
			XI-29	246.85	-	-	-		-	176.85	176.85	-	-	-	-	38.00	-	32.00	176.85	246.85		-	-
			XI-32(p)	238.46	-	-	-		-	208.46	-	-	-	-	-	-	-	30.00	208.46	238.46		-	-
	*		XI-33(p)	347.46	-	-	-		-	244.92	244.92	-	-	-	-	100.54	-	2.00	244.92	347.46		-	-
			XI-34	310.08	-	-	-		-	190.20	190.20	-	-	-	-	18.38	-	19.00	190.20	310.08		82.50	-
	*		XI-35	297.00	-	-	-		-	270.00	-	-	-	-	-	6.07	-	20.93	270.00	297.00		-	-
			XI-36	371.88	-	-	-		-	317.88	317.88	-	-	-	-	-	-	54.00	317.88	371.88		-	-
			XI-37	164.83	-	-	129.83		-	-	-	-	-	-	-	-	-	35.00	-	164.83		-	-
			XI-38	136.06	-	-	-		-	129.06	129.06	-	-	-	-	-	-	7.00	129.06	136.06		-	-
			XI-39	141.81	-	-	-		-	140.81	140.81	-	-	-	-	-	-	1.00	140.81	141.81		-	-
			XI-40	264.51	-	-	-		-	238.51	238.51	-	-	-	-	-	-	26.00	238.51	264.51		-	-
				3330.40	**0.00**	**0.00**	**129.83**		**132.01**	**2234.47**	**1599.77**	**0.00**	**0.00**	**0.00**	**0.00**	**419.66**	**0.00**	**331.93**	**2366.48**	**3330.40**		**82.50**	**0.00**
	Koragi	SF	XIV-8	334.56	-	-	-		-	287.56	287.56	-	-	-	-	-	-	47.00	287.56	334.56		-	-
			XIV-9	293.14	-	-	-		-	251.14	251.14	-	-	-	-	-	-	42.00	251.14	293.14		-	-
			XIV-10	300.84	-	-	-		-	133.54	133.54	-	-	-	-	-	-	25.00	133.54	300.84		142.30	-
				928.54	**0.00**	**0.00**	**0.00**		**0.00**	**672.24**	**672.24**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**114.00**	**672.24**	**928.54**		**142.30**	**0.00**
	Malali	SF	XIII-5	312.25	-	-	-		-	283.01	-	-	-	-	-	-	-	9.00	283.01	312.25		20.24	-
	Malandur	SF	XIII-8	245.99	-	-	-		-	59.51	-	-	-	-	-	74.48	-	112.00	59.51	245.99		-	-
			XIII-9	195.05	-	-	-		-	60.05	60.05	-	-	-	-	100.00	-	35.00	60.05	195.05		-	-
			XIII-10	186.64	-	-	-		-	80.64	80.64	-	80.00	-	-	-	-	26.00	80.64	186.64		-	-
			XIII-11	211.65	-	-	-		-	178.65	178.65	-	-	-	-	-	-	33.00	178.65	211.65		-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
			XIII-12	254.59	-	-	-		-	206.59	206.59	-	-	-	-	-	-	48.00	206.59	254.59		-	-
			XIII-13	245.83	-	-	-		-	125.83	-	-	-	-	-	-	-	120.00	125.83	245.83		-	-
			XIII-14	219.57	-	-	-		-	-	-	4.49	-	-	-	83.08	-	132.00	4.49	219.57		-	-
			XIII-15	162.77	-	-	-		-	8.77	8.77	-	-	-	-	40.00	-	114.00	8.77	162.77		-	-
			XIII-16	286.07	-	-	-		-	133.87	133.87	-	-	-	-	31.20	-	121.00	133.87	286.07		-	-
			XIII-17	199.63	-	-	-		-	43.23	43.23	-	-	-	-	40.40	-	98.00	43.23	199.63		-	18.00
			XIII-18	217.84	-	-	-		-	43.44	43.44	-	-	20.00	-	78.40	-	57.00	43.44	217.84		-	19.00
			XIII-19	164.41	-	-	-		-	48.34	48.34	-	-	-	-	34.26	-	49.00	48.34	164.41		17.81	15.00
				2590.04	**0.00**	**0.00**	**0.00**		**0.00**	**988.92**	**803.58**	**4.49**	**80.00**	**20.00**	**0.00**	**481.82**	**0.00**	**945.00**	**993.41**	**2590.04**		**17.81**	**52.00**
	Malandur Extn.	SF	XIII-25	1142.35	-	-	-		-	-	-	555.35	305.00	-	-	-	-	282.00	-	1142.35		-	-
	Telaginmane	SF	XIII-1	117.65	-	-	-		-	77.65	-	-	-	-	-	40.00	-	-	77.65	117.65		-	-
			XIII-2	237.81	-	-	-		-	218.81	-	-	-	-	-	-	-	19.00	218.81	237.81		-	-
			XIII-3	232.40	-	-	-		-	163.40	163.40	-	-	-	-	35.00	-	34.00	163.40	232.40		-	-
			XIII-4	107.52	-	-	-		-	107.52	-	-	-	-	-	-	-	-	107.52	107.52		-	-
				695.38	**0.00**	**0.00**	**0.00**		**0.00**	**567.38**	**163.40**	**0.00**	**0.00**	**0.00**	**0.00**	**75.00**	**0.00**	**53.00**	**567.38**	**695.38**		**0.00**	**0.00**
	Adur	MF	XIII-21	574.26	-	-	-		178.07	-	-	-	46.00	-	-	-	-	190.00	-	574.26		62.19	98.00
	Byrapura	MF	XIII-20	274.79	-	-	-		-	246.79	-	-	-	8.00	-	20.00	-	-	246.79	274.79		-	-
	Choradi	MF	XIV-12	128.73	-	-	-		-	-	-	-	-	-	-	100.00	-	8.73	-	128.73		20.00	-
			XIV-13	89.76	-	-	-		-	-	-	-	-	-	-	80.00	-	9.76	-	89.76		-	-
				218.49	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**180.00**	**0.00**	**18.49**	**0.00**	**218.49**		**20.00**	**0.00**
	Konehosur	MF	XIV-1	185.90	-	-	-		-	-	-	-	-	-	-	140.00	-	-	-	185.90		45.90	-
			XIV-2	118.56	-	-	-		-	-	-	8.56	-	-	-	10.00	-	-	-	118.56		100.00	-
				304.46	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**8.56**	**0.00**	**0.00**	**0.00**	**150.00**	**0.00**	**0.00**	**0.00**	**304.46**		**145.90**	**0.00**
	Sannivasa	MF	XIV-14	81.06	-	-	-		-	-	-	-	-	-	-	56.80	-	24.26	-	81.06		-	-
	Tuppur	MF	XIV-11	129.21	-	-	-		-	52.21	52.21	-	-	-	-	56.00	-	21.00	-	129.21		-	-
	Koragi	RF	XIV-15	72.06	-	-	-		44.03	-	-	-	-	-	-	-	-	28.03	44.03	72.06		-	-
	Tuppur **RN**	RF	XIV-16		-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-
					-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-
				12490.22	**0.00**	**0.00**	**129.83**	**0.00**	**354.11**	**6115.43**	**4051.36**	**654.87**	**431.00**	**28.00**	**0.00**	**1753.78**	**0.00**	**2175.71**	**6330.22**	**12490.22**		**688.49**	**159.00**
c)	**Anavatti**																						
	Arthalgadde	SF	V-8	259.00	-	-	-		-	-	-	219.00	-	-	-	-	-	40.00	-	-		-	-
	Bettadakurali	SF	VI-6	320.38	-	-	-		219.87	-	-	-	-	-	-	96.51	-	4.00	219.87	-		-	-
			VI-7	248.76	-	-	-		40.66	-	-	-	-	-	-	206.10	-	2.00	40.66	-		-	-
			VI-8	272.62	-	-	-		0.00	-	-	-	-	-	-	250.00	-	22.62	0.00	-		-	-
				841.76	**0.00**	**0.00**	**0.00**		**260.53**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**552.61**	**0.00**	**28.62**	**260.53**	**0.00**		**0.00**	**0.00**
	Kuppagadde	SF	IV-4	220.90	-	-	-		-	186.90	-	-	30.00	-	-	-	-	4.00	186.90	-		-	-
			IV-5	358.56	-	-	-		-	358.56	-	-	-	-	-	-	-	-	358.56	-		-	-
				579.46	**0.00**	**0.00**	**0.00**		**0.00**	**545.46**	**0.00**	**0.00**	**30.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.00**	**545.46**	**0.00**		**0.00**	**0.00**
	Talagadde	SF	V-2	143.76	-	-	-	143.76	85.18	-	-	-	-	-	-	50.58	-	8.00	85.18	-		-	-
			V-3	293.82	-	-	-	293.82	16.82	-	-	-	-	-	-	237.18	-	39.82	16.82	-		-	-
			V-4	392.09	-	-	-	392.09	245.41	-	-	-	-	-	-	143.68	-	3.00	245.41	-		-	-
			V-5	465.35	-	-	-	465.35	247.84	-	-	-	-	-	-	207.51	-	10.00	247.84	-		-	-
				1295.02	**0.00**	**0.00**	**0.00**		**595.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**638.95**	**0.00**	**60.82**	**595.25**	**0.00**		**0.00**	**0.00**
	Tyavanandi	SF	IV-9	343.34	-	-	-		-	320.34	-	-	-	-	-	-	-	23.00	320.34	-		-	-
			IV-10	391.77	-	-	-		-	302.49	-	-	-	32.00	-	-	-	57.28	302.49	-		-	-
				735.11	**0.00**	**0.00**	**0.00**		**0.00**	**622.83**	**0.00**	**0.00**	**0.00**	**32.00**	**0.00**	**0.00**	**0.00**	**80.28**	**622.83**	**0.00**		**0.00**	**0.00**
	Dodderikoppa	MF	IV-8	153.49	-	-	-		137.49	-	-	-	-	-	-	-	-	16.00	137.49	-		-	-
	Hasvi	MF	VI-5	253.39	-	-	-		78.29	-	78.29	-	-	-	-	27.10	-	148.00	78.29	-		-	-
	Haya	MF	VI-11	101.17	-	-	-		71.17	-	-	-	-	-	-	-	-	30.00	71.17	-		-	-
	Hireyedagodu	MF	VI-9	270.37	-	-	-		-	-	-	-	76.37	-	-	-	-	194.00	-	-		-	-
	Korakodu	MF	IV-7	247.05	-	-	-		177.05	-	-	-	-	-	-	-	-	70.00	177.05	-		-	-
	Kotekoppa	MF	IV-1	206.71	-	-	-		156.71	-	-	-	-	-	-	-	-	50.00	156.71	-		-	-
	Kuppagadde - I	MF	IV-6	80.94	-	-	-		-	60.94	-	-	-	-	-	-	-	5.00	60.94	-		15.00	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
	Negavadi	MF	VI-10	102.94	-	-	-		-	-	-	-	62.94	-	-	-	-	40.00	-	-		-	-
	Suranagi	MF	V-7	195.55	-	-	-		-	-	88.55	88.55	-	-	-	-	-	107.00	-	-		-	-
	Talagadde	MF	V-6	193.46	-	-	-		-	-	-	43.46	-	-	-	-	-	150.00	-	-		-	-
	Talaguppa	MF	IV-3	252.25	-	-	-		-	-	-	-	155.25	-	-	-	-	97.00	-	-		-	-
	Tallur	MF	VI-3	399.62	-	-	-		-	-	-	58.52	-	-	-	-	-	243.00	-	-		98.10	-
			VI-4	451.37	-	-	-		-	-	-	-	161.37	-	-	-	-	40.00	-	-		250.00	-
				850.99	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**58.52**	**161.37**	**0.00**	**0.00**	**0.00**	**0.00**	**283.00**	**0.00**	**0.00**		**348.10**	**0.00**
	Tekkur	MF	IV-12	17.62	-	-	-		-	-	-	2.31	-	-	-	-	-	12.00	-	-		3.31	-
	Tyavagodu	MF	IV-11	161.01	-	-	-		-	140.01	-	-	-	14.00	-	-	-	7.00	140.01	-		-	-
	Tyavanandi	MF	IV-16	114.01	-	-	-		-	97.01	-	-	-	-	-	-	-	17.00	97.01	-		-	-
	Siddarhalli	Pln	IV-2	226.63	-	-	-		-	-	-	45.57	-	-	-	181.06	-	-	-	-		-	-
	Bilagalale	SR	V-1	123.05	-	-	-		-	-	-	-	-	-	-	-	-	109.00	-	14.05		-	-
	Hurali	SR	VI-1	316.56	-	-	-	316.56	-	-	-	-	-	-	-	-	-	141.00	-	175.56		-	-
			VI-2	317.26	-	-	-	317.26	-	-	-	-	-	-	-	-	-	145.00	-	172.26		-	-
				633.82	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**286.00**	**0.00**	**347.82**		**0.00**	**0.00**
	Kulaga	RF	IV-13	21.46	-	-	-		-	-	-	21.46	-	-	-	-	-	-	-	-		-	-
	Tekkur	RF	IV-15	119.38	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		119.38	-
				8035.64	**0.00**	**0.00**	**0.00**	**1928.84**	**1476.49**	**1466.25**	**166.84**	**478.87**	**485.93**	**46.00**	**0.00**	**1399.72**	**0.00**	**1834.72**	**2942.74**	**361.87**		**485.79**	**0.00**
d)	**Hosanagara**																						
	Haridravathi	SF	XXIV-6	127.60	-	-	-		127.60	-	127.60	-	-	-	-	-	-	-	127.60	127.60		-	-
			XXIV-7	163.40	-	-	-		13.40	-	-	-	-	-	-	150.00	-	-	13.40	163.40		-	-
			XXIV-8	274.40	-	-	-		-	114.40	-	-	-	-	-	160.00	-	-	114.40	274.40		-	-
			XXIV-9	186.59	-	-	-		-	186.59	-	-	-	-	-	-	-	-	186.59	186.59		-	-
			XXIV-10	295.24	-	-	-		-	295.24	295.24	-	-	-	-	-	-	-	295.24	295.24		-	-
			XXIV-11	277.64	-	-	-		-	106.34	-	-	-	-	-	167.72	-	3.58	106.34	277.64		-	-
			XXIV-12	245.66	-	-	-		-	149.36	-	-	-	-	-	83.80	-	12.50	149.36	245.66		-	-
			XXIV-13	161.94	-	-	-		-	35.97	-	-	-	-	-	-	-	10.00	35.97	161.94		80.97	35.00
			XXIV-14	296.06	-	-	-		-	255.81	-	-	-	-	-	-	-	10.00	255.81	296.06		-	30.25
			XXIV-15	195.32	-	-	-		-	146.82	-	-	-	-	-	-	-	6.50	146.82	195.32		-	42.00
				2223.85	**0.00**	**0.00**	**0.00**		**141.00**	**1290.53**	**422.84**	**0.00**	**0.00**	**0.00**	**0.00**	**561.52**	**0.00**	**42.58**	**1431.53**	**2223.85**		**80.97**	**107.25**
	Haniya	SF	XXVII-1	279.10	-	-	-		279.10	-	-	-	-	-	-	-	-	-	279.10	279.10		-	-
			XXVII-2	241.85	-	-	-		-	-	-	-	221.85	-	-	-	-	20.00	-	241.85		-	-
				520.95	**0.00**	**0.00**	**0.00**		**279.10**	**0.00**	**0.00**	**0.00**	**221.85**	**0.00**	**0.00**	**0.00**	**0.00**	**20.00**	**279.10**	**520.95**		**0.00**	**0.00**
	Jamballi	SF	XXIV-16	295.96	-	-	-		-	198.96	-	-	-	10.00	-	-	-	35.00	198.96	295.96		-	52.00
			XXIV-17	438.62	-	-	-		-	314.22	-	-	-	-	-	29.40	-	40.00	314.22	438.62		-	55.00
				734.58	**0.00**	**0.00**	**0.00**		**0.00**	**513.18**	**0.00**	**0.00**	**0.00**	**10.00**	**0.00**	**29.40**	**0.00**	**75.00**	**513.18**	**734.58**		**0.00**	**107.00**
	Jeni	SF	XXIII-1	262.40	-	-	-		-	158.40	158.40	-	-	-	-	-	-	66.00	158.40	262.40		-	38.00
			XXIII-2	217.02	-	-	-		-	191.02	-	-	-	-	-	-	-	26.00	191.02	217.02		-	-
			XXIII-3	159.92	-	-	-		-	97.92	97.92	-	-	-	-	24.00	-	38.00	97.92	159.92		-	-
			XXIII-4	179.79	-	-	-		-	153.79	-	-	-	-	-	-	-	26.00	153.79	179.79		-	-
				819.13	**0.00**	**0.00**	**0.00**		**0.00**	**601.13**	**256.32**	**0.00**	**0.00**	**0.00**	**0.00**	**24.00**	**0.00**	**156.00**	**601.13**	**819.13**		**0.00**	**38.00**
	Kodur	SF	XXIV-1	311.73	-	-	-		302.73	-	-	-	-	-	-	-	-	9.00	302.73	311.73		-	-
			XXIV-2	163.65	-	-	161.65		-	-	-	-	-	-	-	-	-	2.00	-	163.65		-	-
			XXIV-3	383.57	-	-	297.57		-	-	-	-	-	-	-	18.00	-	48.00	-	383.57		-	20.00
			XXIV-4	148.46	-	-	-		146.46	-	-	-	-	-	-	-	-	2.00	146.46	148.46		-	-
			XXIV-5	359.73	-	-	-		322.73	-	-	-	-	-	-	-	-	37.00	322.73	359.73		-	-
				1367.14	**0.00**	**0.00**	**459.22**		**771.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**18.00**	**0.00**	**98.00**	**771.92**	**1367.14**		**0.00**	**20.00**
	Kolagi	SF	XXIII-8	158.62	-	-	-		96.62	-	-	-	-	-	-	-	-	62.00	96.62	158.62		-	-
			XXIII-9	191.56	-	-	-		167.56	-	-	-	-	-	-	-	-	24.00	167.56	191.56		-	-
			XXIII-10	200.93	-	-	-		-	125.93	-	-	-	-	-	-	-	14.00	125.93	200.93		-	61.00
				551.11	**0.00**	**0.00**	**0.00**		**264.18**	**125.93**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**100.00**	**390.11**	**551.11**		**0.00**	**61.00**

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
	Sharavathi	SF	XXIII-11	183.66	-	-	-		171.66	-	-	-	-	-	-	-	-	12.00	171.66	183.66		-	-
			XXIII-12	276.50	-	-	-		253.50	-	-	-	-	-	-	-	-	23.00	253.50	276.50		-	-
			XXIII-13	304.57	-	-	-		289.57	-	-	-	-	-	-	-	-	15.00	289.57	304.57		-	-
			XXIII-14	196.42	-	-	-		196.42	-	196.42	-	-	-	-	-	-	-	196.42	196.42		-	-
				961.15	**0.00**	**0.00**	**0.00**		**911.15**	**0.00**	**196.42**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**50.00**	**911.15**	**961.15**		**0.00**	**0.00**
	Sharmanavathi	SF	XXIII-6	195.05	-	-	-		-	132.05	132.05	-	-	-	-	-	-	63.00	132.05	195.05		-	-
			XXIII-7	228.26	-	-	-		-	120.98	120.98	-	-	-	-	-	50.00	33.00	120.98	228.26		24.28	-
				423.31	**0.00**	**0.00**	**0.00**		**0.00**	**253.03**	**253.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**50.00**	**96.00**	**253.03**	**423.31**		**24.28**	**0.00**
	Neelakanta	MF	XXIII-27	172.37	-	-	-		-	162.37	-	-	-	-	-	-	-	10.00	162.37	172.37		-	-
	Aduvalli	RF	XXIV-40	68.95	-	-	-		52.95	-	-	-	-	-	-	-	-	-	52.95	68.95		-	16.00
	Alagerimandri	RF	XXIV-47	27.50	-	-	-		-	-	-	-	-	-	-	-	-	-	-	27.50		-	27.50
	Amache	RF	XXIV-52	45.73	-	-	-		45.73	-	-	-	-	-	-	-	-	-	45.73	45.73		-	-
	Anegadde	RF	XXIII-33	230.15	-	-	-		140.53	-	140.53	-	-	-	-	-	-	82.62	140.53	230.15		-	7.00
	Balekoppa	RF	XXVII-16	43.71	-	-	-		27.82	-	-	-	-	-	-	-	-	15.89	27.82	43.71		-	-
	Biliki	RF	XXIV-29	156.99	-	-	-		-	102.99	102.99	-	-	-	-	54.00	-	-	102.99	156.99		-	-
	Devarahonnekopp	RF	XXIV-46	77.66	-	-	-		-	53.90	-	-	-	-	-	-	-	23.76	53.90	77.66		-	-
	Doddabiligodu	RF	XXIV-49	83.77	-	-	-		83.77	-	-	-	-	-	-	-	-	-	83.77	83.77		-	-
	Dumma	RF	XXIII-27	57.77	-	-	-		6.77	-	-	-	-	-	-	-	-	-	6.77	57.77		-	51.00
			XXIII-28	39.26	-	-	-		39.26	-	-	-	-	-	-	-	-	-	39.26	39.26		-	-
				97.03	**0.00**	**0.00**	**0.00**		**46.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**46.03**	**97.03**		**0.00**	**51.00**
	Gubbiga	RF	XXVIII-11	321.33	-	-	-		-	-	-	-	-	-	-	-	-	13.76	-	321.33		-	-
	Gorakodu	RF	XXIII-18	68.60	-	-	-		-	-	-	-	-	-	-	-	-	-	-	68.60		-	68.60
	H.Hunasavalli	RF	XXIV-48	138.19	-	-	-		-	138.19	-	-	-	-	-	-	-	-	138.19	138.19		-	-
	H. Kalkoppa	RF	XXIV-38	25.32	-	-	-		25.32	-	-	-	-	-	-	-	-	-	25.32	25.32		-	-
	Halugudde	RF	XXIV-26	71.61	-	-	-		-	44.61	44.61	-	-	-	-	-	-	-	44.61	71.61		-	27.00
			XXIV-27	199.85	-	-	-		-	173.18	-	-	-	-	-	-	-	26.67	173.18	199.85		-	-
			XXIV-36	404.24	-	-	-		-	404.24	-	-	-	-	-	-	-	-	404.24	404.24		-	-
				675.70	**0.00**	**0.00**	**0.00**		**0.00**	**622.03**	**44.61**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**26.67**	**622.03**	**675.70**		**0.00**	**27.00**
	Harathalu	RF	XXIV-30	100.00	-	-	-		-	16.00	-	-	-	-	-	-	-	20.00	16.00	100.00		-	64.00
			XXIV-31	124.17	-	-	-		-	103.42	-	-	-	-	-	-	-	20.75	103.42	124.17		-	-
				224.17	**0.00**	**0.00**	**0.00**		**0.00**	**119.42**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**40.75**	**119.42**	**224.17**		**0.00**	**64.00**
	Hilagodu	RF	XIII-26	110.52	-	-	-		-	63.78	-	-	-	-	-	-	-	46.74	63.78	110.52		-	-
	Hiriyogi	RF	XXIV-39	31.77	-	-	-		27.34	-	-	-	-	-	-	-	-	4.43	27.34	31.77		-	-
	Honnebylu	RF	XXIII-15	95.51	-	-	-		30.23	-	-	-	-	-	-	-	-	49.28	30.23	95.51		-	16.00
	Hosakesare	RF	XXIV-35	133.28	-	-	-		112.17	-	112.17	-	-	-	-	-	-	21.11	112.17	133.28		-	-
	Humcha	RF	XXIII-31	94.33	-	-	-		21.33	-	-	-	-	-	-	-	-	-	21.33	94.33		-	73.00
			XXIII-32	85.21	-	-	-		15.21	-	-	-	-	-	-	-	-	-	15.21	85.21		-	70.00
				179.54	**0.00**	**0.00**	**0.00**		**36.54**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**36.54**	**179.54**		**0.00**	**143.00**
	K.Hunasavalli	RF	XXIV-32	58.66	-	-	-		-	6.66	-	-	-	-	-	-	-	52.00	6.66	58.66		-	-
			XXIV-33	208.12	-	-	-		-	84.16	-	-	-	-	-	-	-	60.96	84.16	208.12		-	63.00
				266.78	**0.00**	**0.00**	**0.00**		**0.00**	**90.82**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**112.96**	**90.82**	**266.78**		**0.00**	**63.00**
	Hebbylu,Amchi	RF	XIII-23	372.25	-	-	-		276.08	-	-	-	-	40.00	-	-	-	56.17	276.08	372.25		-	-
	Kadasuru	RF	XXIII-19	304.02	-	-	-		241.58	-	-	-	-	-	-	-	-	62.44	241.58	304.02		-	-
	Kalashettikoppa	RF	XXIV-18	24.28	-	-	-		-	-	24.28	24.28	-	-	-	-	-	-	24.28	24.28		-	-
	Kanabanduru	RF	XXIV-25	378.39	-	-	-		362.89	-	-	-	-	-	-	-	-	-	362.89	378.39		-	15.50
	Karakki	RF	XXIV-34	98.23	-	-	-		98.23	-	-	-	-	-	-	-	-	-	98.23	98.23		-	-
	Kerehalli, shuntik	RF	XXIV-37	160.84	-	-	-		160.84	-	-	-	-	-	-	-	-	-	160.84	160.84		-	-
	Kodur	RF	XXIV-23	123.75	-	-	-		-	-	93.75	93.75	-	-	-	-	-	-	-	123.75		-	30.00
	Kodur Yelagallu	RF	XXIV-24	124.87	-	-	-		-	-	124.87	124.87	-	-	-	-	-	-	-	124.87		-	-
	Kolavadi	RF	XXIV-56	124.65	-	-	-		-	124.65	-	-	-	-	-	-	-	-	-	124.65		-	-
			XXIV-57	93.89	-	-	-		-	93.89	-	-	-	-	-	-	-	-	-	93.89		-	-
				218.54	**0.00**	**0.00**	**0.00**		**0.00**	**218.54**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**218.54**		**0.00**	**0.00**
	L.Guddekoppa	RF	XXIII-30	118.30	-	-	-		65.26	-	-	-	-	-	-	-	-	38.04	65.26	118.30		-	15.00
	M.Guddekoppa	RF	XXIII-24	54.03	-	-	-		-	-	49.03	49.03	-	5.00	-	-	-	-	49.03	54.03		-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
			XXIII-25	56.22	-	-	-		-	-	-	56.22	-	-	-	-	-	-	56.22	56.22		-	-
			XXIII-26	150.66	-	-	-		150.66	-	-	-	-	-	-	-	-	-	150.66	150.66		-	-
				260.91	**0.00**	**0.00**	**0.00**		**150.66**	**0.00**	**49.03**	**105.25**	**0.00**	**5.00**	**0.00**	**0.00**	**0.00**	**0.00**	**255.91**	**260.91**		**0.00**	**0.00**
	Majavana	RF	XXIV-21	154.31	-	-	-		-	-	58.31	58.31	-	-	-	-	-	-	-	154.31		-	96.00
	Maluru	RF	XXIII-16	82.80	-	-	-		22.80	-	-	-	-	-	-	-	-	-	22.80	82.80		-	60.00
	Maruthipura	RF	XXVI-32	215.63	-	-	-		-	215.63	-	-	-	-	-	-	-	-	215.63	215.63		-	-
	Masakallu	RF	XXIII-17	147.92	-	-	-		147.92	-	-	-	-	-	-	-	-	-	147.92	147.92		-	-
	Mattur	RF	XXIV-19	136.38	-	-	-		-	90.72	-	-	-	-	-	-	-	45.66	90.72	136.38		-	-
	Mumbharu	RF	XXIII-21	38.19	-	-	-		-	-	-	3.19	-	5.00	-	-	-	-	3.19	38.19		-	30.00
			XXIII-22	97.08	-	-	-		-	-	-	0.53	-	-	-	-	-	-	0.53	97.08		46.55	50.00
			XXIII-23	110.30	-	-	-		-	-	-	5.30	-	5.00	-	-	-	-	5.30	110.30		-	100.00
				245.57	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**9.02**	**0.00**	**10.00**	**0.00**	**0.00**	**0.00**	**0.00**	**9.02**	**245.57**		**46.55**	**180.00**
	Muttala	RF	XXIV-34	96.47	-	-	-		-	-	-	-	-	-	-	-	-	-	-	96.47		-	96.47
	Nagarahalli	RF	XXIV-45	68.99	-	-	-		26.71	-	-	-	-	-	-	-	-	42.28	26.71	68.99		-	-
	Nellundi	RF	XXIII-29	67.56	-	-	-		-	63.97	-	-	-	-	-	-	-	3.59	63.97	67.56		-	-
	Punaje	RF	XXIV-53	105.54	-	-	-		-	79.54	-	-	-	-	-	-	-		79.54	105.54		-	26.00
			XXIV-54	316.25	-	-	-		-	146.87	-	-	-	-	-	-	-	169.38	146.87	316.25		-	-
			XXIV-55	173.95	-	-	-		-	173.95	-	-	-	-	-	-	-	-	173.95	173.95		-	-
				595.74	**0.00**	**0.00**	**0.00**		**0.00**	**400.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**169.38**	**400.36**	**595.74**		**0.00**	**26.00**
	Ramachandrapura	RF	XXVII-27	18.84	-	-	-		-	-	-	-	-	-	-	-	-	-	-	18.84		-	18.84
			XXVII-28	73.63	-	-	-		-	-	-	-	-	-	-	-	-	-	-	73.63		-	73.63
				92.47	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**92.47**		**0.00**	**92.47**
	Salageri	RF	XXVII-17	50.38	-	-	-		24.24	-	-	-	-	-	-	-	-	26.14	24.24	50.38		-	-
	Shakavalli	RF	XXIV-41	94.64	-	-	-		-	-	-	3.57	-	-	-	-	-	11.07	3.57	94.64		-	80.00
	Togeri	RF	XXVII-18	280.09	-	-	-		-	-	-	169.95	-	-	-	-	-	76.14	169.95	280.09		-	34.00
			XXVII-19	166.05	-	-	-		-	-	-	89.92	-	-	-	-	-	76.13	89.92	166.05		-	-
				446.14	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**259.87**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**152.27**	**259.87**	**446.14**		**0.00**	**34.00**
	Totadakoppa	RF	XXIV-51	123.33	-	-	-		123.33	-	-	-	-	-	-	-	-	-	123.33	123.33		-	-
	Varakodu	RF	XXIII-20	244.46	-	-	-		-	-	-	52.46	-	33.00	-	24.00	-	-	-	244.46		-	135.00
	Vasave	RF	XXVII-26	40.47	-	-	-		-	-	-	4.47	-	-	-	-	-	-	-	40.47		-	36.00
	Yalagallu,Kunuru	RF	XXIV-58	82.15	-	-	-		-	-	-	3.33	68.82	-	-	-	-	-	3.33	82.15		-	10.00
			XXIV-59	63.66	-	-	-		-	-	-	0.66	-	-	-	-	-	-	0.66	63.66		-	63.00
				145.81	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**3.99**	**68.82**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.99**	**145.81**		**0.00**	**73.00**
				16109.24	**0.00**	**0.00**	**459.22**	**0.00**	**4696.32**	**5126.52**	**1879.15**	**739.84**	**290.67**	**98.00**	**0.00**	**710.92**	**50.00**	**1692.59**	**10010.28**	**16109.24**		**151.80**	**1785.79**
e)	**Kargal**																						
	Wild Life																						
	Attigodu	SF	XIX-1	211.35	-	-	-		-	-	-	-	-	-		-	-	12.00		-	199.35✿	-	-
			XIX-2	294.64	-	13.32	-		-	-	-	-	-	-		-	-	32.00		-	262.64✿	-	-
			XIX-3	257.66	-	33.39	-		-	-	-	-	-	-		-	-	-		-	257.66	-	-
				763.65	**0.00**	**46.71**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**44.00**		**0.00**	**719.65**	**0.00**	**0.00**
	Channagonda	SF	XIX-12	340.76	339.05	1.71	-		-	-	-	-	-	-		-	-	-		-		-	-
			XIX-13	312.72	142.46	14.16	-		-	-	-	-	-	-		-	-	-		-	156.10✿	-	-
			XIX-14	480.85	479.01	1.84	-		-	-	-	-	-	-		-	-	-		-		-	-
			XIX-15	330.34	312.06	18.28	-		-	-	-	-	-	-		-	-	-		-		-	-
			XIX-16	280.45	253.25	21.60	-		-	-	-	-	-	-		-	-	5.60		-		-	-
			XIX-17	275.18	246.00	23.68	-		-	-	-	-	-	-		-	-	5.50		-		-	-
			XIX-18	246.47	233.07	5.40	-		-	-	-	-	-	-		-	-	8.00		-		-	-
				2266.77	**2004.90**	**86.67**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**19.10**		**0.00**	**156.10**	**0.00**	**0.00**
	Govardhanagiri	SF	XX-1	594.56	-	-	-		-	-	-	-	-	-		-	-	-		-	594.56	-	-
			XX-2	164.47	-	-	-		-	-	-	-	-	-		-	-	-		-	164.47	-	-
			XX-3	571.87	-	26.62	-		-	-	-	-	-	-		-	-	-		-	571.87✿	-	-
			XX-4	535.20	-	-	-		-	-	-	-	-	-		-	-	-		-	535.20	-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
			XX-5	395.85	-	-	-		-	-	-	-	-	-		-	-	-		-	395.85	-	-
			XX-6	313.66	-	34.71	-		-	-	-	-	-	-		-	-	-		-	313.66	-	-
			XX-7	404.32	-	-	-		-	-	-	-	-	-		-	-	-		-	404.32	-	-
			XX-8	493.56	-	14.68	-		-	-	-	-	-	-		-	-	-		-	493.56	-	-
			XX-9	517.33	-	44.81	-		-	-	-	-	-	-		-	-	-		-	517.33	-	-
			XX-10	443.34	-	-	-		-	-	-	-	-	-		-	-	-		-	443.34	-	-
			XX-11	486.91	-	2.74	-		-	-	-	-	-	-		-	-	-		-	486.91	-	-
			XX-12	428.47	-	0.62	-		-	-	-	-	-	-		-	-	-		-	428.47	-	-
			XX-13	266.38	-	43.74	-		-	-	-	-	-	-		-	-	-		-	266.38	-	-
			XX-14	596.14	-	65.62	-		-	-	-	-	-	-		-	-	-		-	596.14	-	-
			XX-15	347.86	-	35.71	-		-	-	-	-	-	-		-	-	-		-	347.86	-	-
			XX-16	277.15	-	6.44	-		-	-	-	-	-	20.00		-	-	-		-	277.15	-	-
			XX-17	521.66	-	23.00	-		-	-	-	-	-	-		-	-	-		-	521.66	-	-
			XX-18	361.47	-	34.95	-		-	-	-	-	-	-		-	-	-		-	361.47	-	-
			XX-19	405.28	-	13.69	-		-	-	-	-	-	-		-	-	-		-	405.28	-	-
			XX-20	354.23	-	-	-		-	-	-	-	-	-		-	-	-		-	354.23	-	-
			XX-21	273.35	-	72.23	-		-	-	-	-	-	-		-	-	-		-	273.35	-	-
			XX-22	553.73	-	85.94	-		-	-	-	-	-	-		-	-	-		-	553.73	-	-
			XX-23	255.41	-	40.74	-		-	-	-	-	-	-		-	-	-		-	255.41	-	-
			XX-24	322.47	-	-	-		-	-	-	-	-	-		-	-	-		-	322.47	-	-
			XX-25	487.26	-	5.34	-		-	-	-	-	-	-		-	-	-		-	487.26	-	-
			XX-26	305.44	-	11.76	-		-	-	-	-	-	-		-	-	-		-	305.44	-	-
			XX-27	301.09	-	6.72	-		-	-	-	-	-	-		-	-	-		-	301.09	-	-
			XX-28	444.95	-	4.26	-		-	-	-	-	-	-		-	-	-		-	444.95	-	-
			XX-29	540.03	-	2.12	-		-	-	-	-	-	-		-	-	-		-	540.03	-	-
			XX-30	416.31	-	-	-		-	-	-	-	-	-		-	-	-		-	416.31	-	-
			XX-31	339.84	-	-	-		-	-	-	-	-	-		-	-	-		-	339.84	-	-
			XX-32	161.61	-	4.80	-		-	-	-	-	-	-		-	-	-		-	161.61	-	-
			XX-33	384.38	-	0.55	-		-	-	-	-	-	-		-	-	-		-	384.38	-	-
			XX-34	208.53	-	-	-		-	-	-	-	-	-		-	-	-		-	208.53	-	-
				13474.11	**0.00**	**581.79**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**20.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**13474.11**	**0.00**	**0.00**
	Joga "A" Block	SF	XVIII-6	269.28	-	-	269.28		-	-	-	-	-	-		-	-	-		-		-	-
	Joga "B" Block	SF	XVIII-7	197.13	-	-	197.13		-	-	-	-	-	-		-	-	-		-		-	-
			XVIII-8	331.85	-	38.62	321.85		-	-	-	-	-	-		-	-	10.00		-		-	-
			XVIII-9	354.81	316.92	7.89	-		-	-	-	-	-	-		-	-	30.00		-		-	-
			XVIII-10	377.35	307.35	-	-		-	-	-	-	-	-		-	-	-		-		-	-
			XVIII-11	400.29	400.29	-	-		-	-	-	-	-	-		-	-	-		-		-	-
			XVIII-12	401.38	400.78	0.10	-		-	-	-	-	-	-		-	-	0.50		-		-	-
			XVIII-13	318.42	314.81	3.61	-		-	-	-	-	-	-		-	-	-		-		-	-
			XVIII-14	364.10	359.09	5.01	-		-	-	-	-	-	-		-	-	-		-		-	-
			XVIII-15	351.39	307.54	43.85	-		-	-	-	-	-	-		-	-	-		-		-	-
			XVIII-16	136.07	120.33	15.74	-		-	-	-	-	-	-		-	-	-		-		-	-
			XVIII-17	335.91	332.77	3.14	-		-	-	-	-	-	-		-	-	-		-		-	-
				3837.98	**2859.88**	**117.96**	**788.26**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**40.50**		**0.00**		**0.00**	**0.00**
	Karani	SF	XXI-1	350.95	-	36.96	-		-	-	-	-	-	-		-	-	-		-	350.95	-	-
			XXI-2	345.10	-	7.78	-		-	-	-	-	-	-		-	-	-		-	345.10	-	-
			XXI-3	344.44	-	7.94	-		-	-	-	-	-	-		-	-	-		-	328.44	-	16.00
			XXI-4	197.54	-	8.42	-		-	-	-	-	-	-		-	-	-		-	176.54	-	21.00
			XXI-5	321.28	-	3.84	-		-	-	-	-	-	-		-	-	-		-	321.28	-	-
			XXI-6	491.87	-	6.64	-		-	-	-	-	-	-		-	-	-		-	463.87	-	28.00
			XXI-7	283.19	-	18.87	-		-	-	-	-	-	-		-	-	-		-	283.19	-	-
			XXI-8	271.52	-	12.13	-		-	-	-	-	-	-		-	-	-		-	271.52	-	-
			XXI-9	221.46	-	27.56	-		-	-	-	-	-	-		-	-	-		-	221.46	-	-
			XXI-10	341.99	-	1.47	-		-	-	-	-	-	-		-	-	-		-	341.99	-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
			XXI-11	301.95	-	1.27	-		-	-	-	-	-	-		-	-	-		-	279.95	-	22.00
			XXI-12	346.04	-	-	-		-	-	-	-	-	-		-	-	-		-	335.04	-	11.00
			XXI-13	214.38	-	-	-		-	-	-	-	-	-		-	-	-		-	214.38	-	-
			XXI-14	345.63	-	1.05	-		-	-	-	-	-	-		-	-	-		-	345.63	-	-
			XXI-15	357.14	-	3.68	-		-	-	-	-	-	-		-	-	-		-	332.14	-	25.00
			XXI-16	248.67	-	9.93	-		-	-	-	-	-	-		-	-	-		-	228.67	-	20.00
			XXI-17	300.83	-	19.18	-		-	-	-	-	-	-		-	-	-		-	270.83	-	30.00
				5283.98	**0.00**	**166.72**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**5110.98**	**0.00**	**173.00**
	Kargal	SF	XVIII-1	200.71	-	-	188.71		-	-	-	-	-	-		-	-	12.00		-		-	-
			XVIII-2	231.34	-	-	199.34		-	-	-	-	-	-		-	-	32.00		-		-	-
				432.05	**0.00**	**0.00**	**388.05**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**44.00**		**0.00**		**0.00**	**0.00**
	Kudruru - I	SF	XXII-1	337.75	-	-	-		-	316.47	-	-	-	-	21.28	-	-	-	316.47	-		-	-
			XXII-2	329.42	-	-	-		-	326.45	-	-	-	-	2.97	-	-	-	326.45	-		-	-
			XXII-3	334.92	-	-	-		-	185.13	-	-	-	-	74.79	-	-	15.00	185.13	-		-	60.00
			XXII-4	183.38	-	-	-		-	176.15	-	-	-	-	7.23	-	-	-	176.15	-		-	-
			XXII-5	264.39	-	-	-		-	262.73	-	-	-	-	1.66	-	-	-	262.73	-		-	-
			XXII-6	133.21	-	-	-		-	132.91	-	-	-	-	0.30	-	-	-	132.91	-		-	-
			XXII-7	196.70	-	-	-		-	190.89	-	-	-	-	2.81	-	-	3.00	190.89	-		-	-
				1779.77	**0.00**	**0.00**	**0.00**		**0.00**	**1590.73**	**0.00**	**0.00**	**0.00**	**0.00**	**111.04**	**0.00**	**0.00**	**18.00**	**1590.73**	**0.00**		**0.00**	**60.00**
	Kudruru - II	SF	XXII-8	266.87	-	-	-		-	257.08	-	-	-	-	9.79	-	-	-	257.08	-		-	-
			XXII-9	284.97	-	-	-		-	284.97	-	-	-	-		-	-	-	284.97	-		-	-
			XXII-10	245.58	-	-	-		-	245.58	-	-	-	-		-	-	-	245.58	-		-	-
			XXII-11	321.68	-	-	-		-	321.68	-	-	-	-		-	-	-	321.68	-		-	-
			XXII-12	273.90	-	-	-		-	266.16	-	-	-	-	7.74	-	-	-	266.16	-		-	-
			XXII-13	222.55	-	-	-		-	220.83	-	-	-	-	1.72	-	-	-	220.83	-		-	-
				1615.55	**0.00**	**0.00**	**0.00**		**0.00**	**1596.30**	**0.00**	**0.00**	**0.00**	**0.00**	**19.25**	**0.00**	**0.00**	**0.00**	**1596.30**	**0.00**		**0.00**	**0.00**
	Muppani - A	SF	XIX-4	275.92	-	0.12	-		-	-	-	-	-	-		-	-	-		-	275.92	-	-
			XIX-5	303.79	-	3.55	-		-	-	-	-	-	-		-	-	-		-	303.79	-	-
			XIX-6	229.85	-	-	-		-	-	-	-	-	-		-	-	-		-	229.85	-	-
			XIX-7	152.21	-	-	-		-	-	-	-	-	-		-	-	-		-	152.21	-	-
				961.77	**0.00**	**3.67**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**961.77**	**0.00**	**0.00**
	Muppani - B	SF	XIX-8	137.28	-	-	-		-	-	-	-	-	-		-	-	-		-	137.28	-	-
			XIX-9	206.96	-	0.95	-		-	-	-	-	-	-		-	-	-		-	206.96	-	-
			XIX-10	231.46	-	-	-		-	-	-	-	-	-		-	-	-		-	231.46	-	-
			XIX-11	52.65	-	-	-		-	-	-	-	-	-		-	-	-		-	52.65	-	-
				628.35	**0.00**	**0.95**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**628.35**	**0.00**	**0.00**
	Talakalale	SF	XVIII-3	264.60	148.83	8.87	-		-	-	-	-	-	-		-	-	-		-	106.90	-	-
			XVIII-4	348.22	308.83	13.39	-		-	-	-	-	-	-		-	-	-		-	26.00	-	-
			XVIII-5	203.37	177.26	14.11	-		-	-	-	-	-	-		-	-	12.00		-		-	-
				816.19	**634.92**	**36.37**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**12.00**		**0.00**	**132.90**	**0.00**	**0.00**
	Kargal	RF	XVIII-18	31.57	28.57	-	-		-	-	-	-	-	-		-	-	3.00		-		-	-
	Karumanehalli	RF	XVIII-20	116.55	116.55	-	-		-	-	-	-	-	-		-	-	-		-		-	-
	Talakalale	RF	XVIII-19	236.70	236.70	-	-		-	-	-	-	-	-		-	-	-		-		-	-
	Tumri	RF	XXII-14	58.67	-		-		-	-	-	-	-	-	25.00	-	-	33.67		-		-	-
				32303.66	**5881.52**	**1040.84**	**1176.31**		**0.00**	**3187.03**	**0.00**	**0.00**	**0.00**	**20.00**	**155.29**	**0.00**	**0.00**	**214.27**	**3187.03**	**0.00**	**21183.86**	**0.00**	**233.00**
f)	**Nagara**																						
	Baise	SF	XXVI-6	180.64	-	-	-		-	118.64	-	-	-	-	-	-	-	-	118.64	-		-	62.00
			XXVI-7	130.33	-	-	-		-	100.33	-	-	-	-	-	-	-	-	100.33	-		-	30.00
				310.97	**0.00**	**0.00**	**0.00**		**0.00**	**218.97**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**218.97**	**0.00**		**0.00**	**92.00**
	Chakra	SF	XXV-12	200.45	154.45	-	-		-	-	-	-	-	-	-	-	-	5.00		-		-	41.00
			XXV-13	181.86	175.86	-	-		-	-	-	-	-	-	-	-	-	6.00		-		-	-
			XXV-14	224.23	217.23	-	-		-	-	-	-	-	-	-	-	-	7.00		-		-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
			XXV-15	163.19	156.19	-	-		-	-	-	-	-	-	-	-	-	7.00		-		-	-
				769.73	**703.73**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**25.00**	**0.00**	**0.00**		**0.00**	**41.00**
	Devagange	SF	XXVI-5	377.92	377.92	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
	Honnarmagane	SF	XXV-1	177.51	177.51	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXV-2	532.50	520.50	-	-		-	-	-	-	-	-	-	-	-	-		-		-	12.00
				710.01	**698.01**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**	**12.00**
	Hulikal	SF	XXVIII-1	142.40	129.40	-	-		-	-	-	-	-	-	-	-	-	13.00		-		-	-
			XXVIII-2	284.59	275.59	-	-		-	-	-	-	-	-	-	-	-	9.00		-		-	-
				426.99	**404.99**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**22.00**	**0.00**	**0.00**		**0.00**	**0.00**
	Kavaledurga	SF	XXVII-6	235.30	-	-	-		-	222.30	-	-	-	-	-	-	-	13.00	222.30	-		-	-
			XXVII-7	249.53	176.53	-	-		-	-	-	-	-	-	-	-	-	37.00	-	-		-	36.00
			XXVII-8	341.99	328.99	-	-		-	-	-	-	-	-	-	-	-	13.00	-	-		-	-
			XXVII-9	254.67	249.67	-	-		-	-	-	-	-	-	-	-	-	5.00	-	-		-	-
			XXVII-10	261.31	-	-	-		-	248.31	-	-	-	-	-	-	-	13.00	248.31	-		-	-
			XXVII-11	221.30	-	-	-		-	221.30	-	-	-	-	-	-	-	-	221.30	-		-	-
			XXVII-12	174.27	-	-	-		-	170.27	-	-	-	-	-	-	-	4.00	170.27	-		-	-
			XXVII-13	214.78	-	-	208.78		-	-	-	-	-	-	-	-	-	6.00	-	-		-	-
			XXVII-14	323.31	-	-	276.31		-	-	-	-	-	-	-	-	-	47.00	-	-		-	-
			XXVII-15	213.27	-	-	-		-	213.27	-	-	-	-	-	-	-	-	213.27	-		-	-
				2489.73	**755.19**	**0.00**	**485.09**		**0.00**	**1075.45**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**138.00**	**1075.45**	**0.00**		**0.00**	**36.00**
	Kilandur	SF	XXVI-8	176.52	176.52	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-9	307.62	241.62	-	-		-	-	-	-	-	-	-	-	-	-		-		-	66.00
			XXVI-10	349.62	296.62	-	-		-	-	-	-	-	-	-	-	-	-		-		-	53.00
			XXVI-11	555.77	555.77	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-12	285.35	285.35	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-13	283.65	283.65	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-14	363.07	335.07	-	-		-	-	-	-	-	-	-	-	-	-		-		-	28.00
			XXVI-15	329.44	320.94	-	-		-	-	-	-	-	-	-	-	-	-		-		-	8.50
			XXVI-16	264.12	264.12	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-17	252.81	224.81	-	-		-	-	-	-	-	-	-	-	-	-		-		-	28.00
			XXVI-18	262.08	192.08	-	-		-	-	-	-	-	-	-	-	-	-		-		-	70.00
			XXVI-19	266.80	246.75	-	-		-	-	-	-	-	-	-	-	-	2.00		-		-	18.05
			XXVI-20	267.22	209.22	-	-		-	-	-	-	-	-	-	-	-	-		-		-	58.00
			XXVI-21	152.30	133.30	-	-		-	-	-	-	-	-	-	-	-	-		-		-	19.00
			XXVI-22	373.25	342.25	-	-		-	-	-	-	-	-	-	-	-	-		-		-	31.00
			XXVI-23	269.73	269.73	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-24	438.60	438.60	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-25	354.80	354.80	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-26	423.66	423.66	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVI-27	446.77	442.77	-	-		-	-	-	-	-	-	-	-	-	4.00	-	-		-	-
			XXVI-28	155.32	117.32	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	38.00
				6578.50	**6154.95**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**6.00**	**0.00**	**0.00**		**0.00**	**417.55**
	Kodachadri	SF	XXV-4	206.03	202.36	3.67	-		-	-	-	-	-	-		-	-	-		-		-	-
			XXV-5	187.50	150.21	21.29	-		-	-	-	-	-	-		-	-	7.00		-		-	9.00
			XXV-6	214.17	152.48	31.69	-		-	-	-	-	-	-		-	-	30.00		-		-	-
			XXV-7	209.63	203.63	-	-		-	-	-	-	-	-		-	-	6.00		-		-	-
			XXV-8	222.74	199.71	0.03	-		-	-	-	-	-	-		-	-	7.00		-		-	16.00
			XXV-9	232.23	-	-	206.23		-	-	-	-	-	-		-	-	5.00		-		-	21.00
			XXV-10	198.15	-	-	198.15		-	-	-	-	-	-		-	-	-		-		-	-
			XXV-11	180.75	176.75	-	-		-	-	-	-	-	-		-	-	4.00		-		-	-
				1651.20	**1085.14**	**56.68**	**404.38**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**59.00**	**0.00**	**0.00**		**0.00**	**46.00**
	Kodasi	SF	XXVII-3	466.27	-	-	-		424.27	-	424.27	-	-	-	-	-	-	5.00	424.27	-		-	37.00
			XXVII-4	507.68	-	-	-		-	300.68	-	-	-	-	-	-	-	169.00	300.68	-		-	38.00
			XXVII-5	372.79	-	-	-		-	240.79	-	-	-	-	-	-	-	132.00	240.79	-		-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
				1346.74	**0.00**	**0.00**	**0.00**		**424.27**	**541.47**	**424.27**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**306.00**	**965.74**	**0.00**		**0.00**	**75.00**
	Manibylu	SF	XXVIII-8	291.46	283.46	-	-		-	-	-	-	-	-	-	-	-	8.00	-	-		-	-
			XXVIII-9	272.35	272.35	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-
			XXVIII-10	288.23	272.23	-	-		-	-	-	-	-	-	-	-	-	16.00	-	-		-	-
				852.04	**828.04**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**24.00**	**0.00**	**0.00**		**0.00**	**0.00**
	Mattilkai	SF	XXVI-1	135.10	-	-	-		-	40.52	-	-	-	-	45.58	-	-	25.00	40.52	-		-	24.00
			XXVI-2	231.25	-	-	-		-	89.66	-	-	-	20.00	61.59	-	-	60.00	89.66	-		-	-
			XXVI-3	199.56	-	-	-		-	120.34	-	-	-	-	12.22	-	-	67.00	120.34	-		-	-
			XXVI-4	199.69	-	-	-		-	114.28	-	-	-	-	23.41	-	-	27.00	114.28	-		-	35.00
				765.60	**0.00**	**0.00**	**0.00**		**0.00**	**364.80**	**0.00**	**0.00**	**0.00**	**20.00**	**142.80**	**0.00**	**0.00**	**179.00**	**364.80**	**0.00**		**0.00**	**59.00**
	Menasingudda	SF	XXV-3	160.91	160.27	0.64	-		-	-	-	-	-	-	-	-	-	-		-		-	-
	Varahi	SF	XXVIII-3	515.92	471.42		-		-	-	-	-	-	-	-	-	-	28.00		-		-	16.50
			XXVIII-4	509.97	509.97		-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVIII-5	406.46	406.46		-		-	-	-	-	-	-	-	-	-	-		-		-	-
			XXVIII-6	544.23	533.23		-		-	-	-	-	-	-	-	-	-	11.00		-		-	-
			XXVIII-7	235.56	207.56		-		-	-	-	-	-	-	-	-	-	28.00		-		-	-
				2212.14	**2128.64**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**67.00**	**0.00**	**0.00**		**0.00**	**16.50**
	Kabale	RF	XXVI-34	232.70	50.99	-	-		-	-	-	-	-	-	-	-	-	158.71		-		-	23.00
	Khyrgunda	RF	XXVII-25	329.09	-	-	-		-	-	-	-	294.09	-	-	-	-	-		-		-	35.00
	Kilandur	RF	XXVI-29	65.56	52.12	-	-		-	-	-	-	-	-	-	-	-	13.44		-		-	-
	Kolavadi	RF	XXVII-23	370.28	370.28	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
	Magodu	RF	XXVI-30	52.61	52.61	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
	Mattikai	RF	XXVI-33	143.67	140.61	-	-		-	-	-	-	-	-	-	-	-	3.06		-		-	-
	Mudagoppa	RF	XXVI-31	366.20	197.52	-	-		-	-	-	-	-	-	-	-	-	168.68		-		-	-
	Ryave	RF	XXVII-20	271.16	185.80	-	-		-	-	-	-	-	-	-	-	-	85.36	-	-		-	-
			XXVII-21	259.46	174.11	-	-		-	-	-	-	-	-	-	-	-	85.35	-	-		-	-
			XXVII-22	109.06	23.70	-	-		-	-	-	-	-	-	-	-	-	85.36	-	-		-	-
				639.68	**383.61**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**256.07**	**0.00**	**0.00**		**0.00**	**0.00**
	Sulagodu	RF	XXIV-42	279.43	-	-	-		-	-	-	-	182.86	-	-	-	-	96.57	-	-		-	-
			XXIV-43	160.98	-	-	-		-	-	-	-	160.98	-	-	-	-	-	-	-		-	-
			XXIV-44	26.19	-	-	-		-	-	-	-	26.19	-	-	-	-	-	-	-		-	-
				466.60	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**370.03**	**0.00**	**0.00**	**0.00**	**0.00**	**96.57**	**0.00**	**0.00**		**0.00**	**0.00**
	Yadooru	RF	XXIV-50	150.55	140.99	-	-		-	-	-	-	-	-	-	-	-	9.56	-	-		-	-
				21469.42	**14685.61**	**57.32**	**889.47**	**0.00**	**424.27**	**2200.69**	**424.27**	**0.00**	**664.12**	**20.00**	**142.80**	**0.00**	**0.00**	**1532.09**	**2624.96**	**0.00**		**0.00**	**853.05**
g)	**Sagar**																						
	Avinahalli	SF	XVI-1	214.30	-	-	-		64.30	-	64.30	-	-	-	-	125.10	-	24.90	64.30	214.30		-	-
			XVI-2	210.97	-	-	-		0.87	-	-	-	-	-	-	131.98	57.12	21.00	0.87	210.97		-	-
			XVI-3	232.97	-	-	-		19.54	-	-	-	-	-	-	141.38	-	72.05	19.54	232.97		-	-
				658.24	**0.00**	**0.00**	**0.00**		**84.71**	**0.00**	**64.30**	**0.00**	**0.00**	**0.00**	**0.00**	**398.46**	**57.12**	**117.95**		**658.24**		**0.00**	**0.00**
	Bellenne	SF	XVII-4	287.70	281.60	2.10	-		-	-	-	-	-	-	-	-	-	4.00		-		-	-
			XVII-5	301.95	270.55	-	-		-	-	-	-	-	23.00	-	3.40	-	5.00		-		-	-
			XVII-6	220.55	215.55	-	-		-	-	-	-	-	-	-	-	-	5.00		-		-	-
				810.20	**767.70**	**2.10**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**23.00**	**0.00**	**3.40**	**0.00**	**14.00**		**0.00**		**0.00**	**0.00**
	Belandur	SF	XII-1(p)	158.92	-	-	-		-	116.92	-	-	-	-	-	-	-	42.00	116.92	158.92		-	-
			XII-2(p)	418.94	-	-	-		-	418.94	418.94	-	-	-	-	-	-	-	418.94	418.94		-	-
			XII-3(p)	420.83	-	-	-		-	260.83	260.83	-	-	-	-	-	-	160.00	260.83	420.83		-	-
			XII-4(p)	342.47	-	-	-		-	255.47	-	-	-	-	-	-	-	87.00	255.47	342.47		-	-
			XII-5(p)	396.21	-	-	-		-	312.21	-	-	-	-	-	-	-	84.00	312.21	396.21		-	-
			XII-9(p)	75.00	-	-	-		-	75.00	75.00	-	-	-	-	-	-	-	75.00	75.00		-	-
				1812.37	**0.00**	**0.00**	**0.00**		**0.00**	**1439.37**	**754.77**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**373.00**	**1439.37**	**1812.37**		**0.00**	**0.00**
	Iduvani	SF	XVII-1	316.49	77.91	99.52	-		-	-	-	-	-	-	-	-	51.05	15.95		-		72.06	-
			XVII-2	304.25	95.30	37.95	-		-	-	-	-	-	87.79	-	-	-	83.21		-		-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
			XVII-3	328.76	284.44	1.32	-		-	-	-	-	-	-	-	-	-	43.00		-		-	-
				949.50	**457.65**	**138.79**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**87.79**	**0.00**	**0.00**	**51.05**	**142.16**		**0.00**		**72.06**	**0.00**
	Kalkoppa	SF	XV-10	121.43	-	-	-		-	-	-	12.03	-	-	-	76.40		33.00		121.43		-	-
			XV-11	199.14	-	-	-		-	-	-	34.19	-	1.21	-	123.74	-	40.00		199.14		-	-
				320.57	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**46.22**	**0.00**	**1.21**	**0.00**	**200.14**	**0.00**	**73.00**		**320.57**		**0.00**	**0.00**
	Mysavi	SF	XV-3 (P)	144.46	-	-	-		-	144.46	-	-	-	-	-	-	-	-	144.46	144.46		-	-
			XV-4 (P)	91.87	-	-	-		-	45.87	-	-	-	-	-	-	-	46.00	45.87	91.87		-	-
			XV-5 (P)	316.52	-	-	-		-	66.74	66.74	-	-	-	-	226.78	-	23.00	66.74	316.52		-	-
			XV-6	417.72	-	-	-		-	344.72	344.72	-	-	-	-	-	-	73.00	344.72	417.72		-	-
				970.57	**0.00**	**0.00**	**0.00**		**0.00**	**601.79**	**411.46**	**0.00**	**0.00**	**0.00**	**0.00**	**226.78**	**0.00**	**142.00**	**601.79**	**970.57**		**0.00**	**0.00**
	Ulur	SF	XV-8	191.30	-	-	-		-	134.75	-	-	-	-	-	56.55	-	-	134.75	191.30		-	-
			XV-9	252.68	-	-	-		-	121.79	-	-	-	-	-	49.43	40.46	41.00	121.79	252.68		-	-
				443.98	**0.00**	**0.00**	**0.00**		**0.00**	**256.54**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**105.98**	**40.46**	**41.00**	**256.54**	**443.98**		**0.00**	**0.00**
	Bhadrapura	MF	XV-2 (P)	109.27	-	-	-		-	33.96	-	-	-	-	-	18.85	40.46	16.00	33.96	109.27		-	-
	Bilisiri	MF	XV-7	227.84	-	-	-		-	84.61	-	-	-	-	-	52.23	20.00	71.00	84.61	227.84		-	-
	Avinahalli	RF	XVI-4	43.08	-	-	-		-	-	-	43.08	-	-	-		-	-	-	43.08		-	-
	Bilisiri	RF	XV-14	120.45	-	-	-		120.45	-	-	-	-	-	-	-	-	-	120.45	120.45		-	-
	Malali	RF	XIII-22	52.57	-	-	-		-	52.57	-	-	-	-	-	-	-	-	52.57	52.57		-	-
	Maruru	RF	XV-13	123.62	-	-	-		-	81.96	-	-	-	-	-	-	-	41.66	81.96	123.62		-	-
	Masooru	RF	II-27	286.95	-	-	-		-	165.18	-	-	-	-	-	-	-	121.77	165.18	286.95		-	-
	Nadamanchale	RF	XV-12	109.67	-	-	-		-	-	-	62.74	-	20.00	-	-	-	26.93	-	109.67		-	-
	Nadavadahalli	RF	XVI-5	47.86	-	-	-		-	40.84	-	-	-	-	-	-	-	7.02	40.84	47.86		-	-
					-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-
				7086.74	**1225.35**	**140.89**	**0.00**	**0.00**	**205.16**	**2756.82**	**1230.53**	**152.04**	**0.00**	**132.00**	**0.00**	**1005.84**	**209.09**	**1187.49**	**2961.98**	**5327.04**		**72.06**	**0.00**
h)	**Shikaripura**																						
	Chandrakala	SF	IX-1(P)	311.42	-	-	-		-	-	304.42	304.42	-	-	-	-	-	7.00	-	-		-	-
			IX-2	388.09	-	-	-		364.09	-	364.09	-	-	-	-	-	-	24.00	364.09	-		-	-
			IX-3	377.25	-	-	-		370.25	-	370.25	-	-	-	-	-	-	7.00	370.25	-		-	-
			IX-4	644.94	-	-	-		546.94	-	546.94	-	10.00	-	-	-	-	88.00	546.94	-		-	-
			IX-5	359.56	-	-	-		254.56	-	254.56	-	-	-	-	-	-	105.00	254.56	-		-	-
			IX-6	479.42	-	-	-		364.42	-	364.42	-	-	-	-	-	-	115.00	364.42	-		-	-
			IX-7(P)	297.46	-	-	-		-	-	-	273.46	-	-	-	-	-	24.00	-	-		-	-
			IX-8(P)	311.43	-	-	-		-	-	-	0.00	-	-	-	300.00	-	11.43	-	-		-	-
				3169.57	**0.00**	**0.00**	**0.00**		**1900.26**	**0.00**	**2204.68**	**577.88**	**10.00**	**0.00**	**0.00**	**300.00**	**0.00**	**381.43**	**1900.26**	**0.00**		**0.00**	**0.00**
	Gangavansara	SF	X-2	220.01	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		220.01	-
			X-3	208.60	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		208.60	-
			X-4(p)	140.22	-	-	-		-	-	-	30.95	-	-	-	-	-	-	-	-		109.27	-
			X-5(p)	198.28	-	-	-		-	-	-	94.28	-	-	-	-	-	4.00	-	-		100.00	-
			X-6	336.37	-	-	-		309.37	-	-	-	-	-	-	-	-	27.00	309.37	-		-	-
			X-7	314.01	-	-	-		164.01	-	-	-	-	-	-	-	-	-	164.01	-		150.00	-
			X-8	358.53	-	-	-		72.94	-	-	-	-	-	-	-	-	28.00	72.94	-		257.59	-
			X-9	307.21	-	-	-	307.21	286.21	-	-	-	-	-	-	-	-	21.00	286.21	-		-	-
			X-10	318.91	-	-	-	318.91	316.91	-	-	-	-	-	-	-	-	2.00	316.91	-		-	-
			X-11(p)	48.63	-	-	-	48.63	-	-	-	41.63	-	-	-	-	-	7.00	-	-		-	-
			X-12	290.70	-	-	-	290.70	290.70	-	-	-	-	-	-	-	-	-	290.70	-		-	-
			X-13	264.92	-	-	-	264.92	264.92	-	264.92	-	-	-	-	-	-	-	264.92	-		-	-
			X-14	247.38	-	-	-		86.60	-	-	-	-	8.00	-	60.00	-	4.00	86.60	-		88.78	-
			X-15	276.30	-	-	-		276.30	-	-	-	-	-	-	-	-	-	276.30	-		-	-
			X-16(p)	157.29	-	-	-		-	-	-	157.29	-	-	-	-	-	-	-	-		-	-
			X-17(p)	57.89	-	-	-		-	-	-	55.89	-	-	-	-	-	2.00	-	-		-	-
			X-18	0.00	-	-	-		-	-	-	0.00	-	-	-	-	-	-	-	-		-	-
			X-19(p)	130.10	-	-	-		-	-	117.10	117.10	-	8.00	-	-	-	5.00	-	-		-	-
				3875.35	**0.00**	**0.00**	**0.00**		**2067.96**	**0.00**	**382.02**	**497.14**	**0.00**	**16.00**	**0.00**	**60.00**	**0.00**	**100.00**	**2067.96**	**0.00**		**1134.25**	**0.00**

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
	Gogga	SF	IX-21	320.00	-	-	-		-	-	-	103.34	-	-	-	-	-	46.00	-	-		-	170.66
			IX-22	339.99	-	-	-		-	-	-	153.99	-	-	-	-	-	20.00	-	-		-	166.00
				659.99	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**257.33**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**66.00**	**0.00**	**0.00**		**0.00**	**336.66**
	Markande	SF	IX-14	316.04	-	-	-		-	-	-	249.04	-	-	-	64.00	-	3.00	-	-		-	-
			IX-15	391.41	-	-	-		-	-	-	358.25	-	10.00	-	10.00	-	-	-	-		13.16	-
			IX-16	314.80	-	-	-		-	-	-	302.80	-	-	-	-	-	12.00	-	-		-	-
				1022.25	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**910.09**	**0.00**	**10.00**	**0.00**	**74.00**	**0.00**	**15.00**	**0.00**	**0.00**		**13.16**	**0.00**
	Yerekatte	SF	IX-17	356.38	-	-	-		194.03	-	-	-	-	-	-	65.00	-	20.00	194.03	-		77.35	-
	Ambarakoppa	MF	IX-9	0.00	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-
	Harogoppa	MF	X-21	132.46	-	-	-		15.46	-	-	-	-	-	-	-	-	117.00	15.46	-		-	-
	Ittigehalli	MF	IX-18	267.03	-	-	-		-	-	-	67.03	-	-	-	-	-	200.00	-	-		-	-
	Kaginelli	MF	X-1	1361.46	-	-	-		1361.46	-	-	-	-	-	-	-	-	-	1361.46	-		-	-
	Kotta	MF	IX-10 (P)	38.94	-	-	-		38.94	-	-	-	-	-	-	-	-	-	38.94	-		-	-
	Kodekoppa	MF	VIII-15	381.12	-	-	-		-	-	-	381.12	-	-	-	-	-	-	-	-		-	-
	Sadashivpura	MF	IX-20	123.81	-	-	-		-	-	-	-	-	-	-	-	-	56.01	-	-		67.80	-
	Suthabande	MF	IX-12 (P)	157.05	-	-	-		137.05	-	-	-	-	20.00	-	-	-	-	137.05	-		-	-
			IX-13 (P)	380.65	-	-	-		-	287.65	287.65	-	-	-	-	-	-	93.00	287.65	-		-	-
				537.70	**0.00**	**0.00**	**0.00**		**137.05**	**287.65**	**287.65**	**0.00**	**0.00**	**20.00**	**0.00**	**0.00**	**0.00**	**93.00**	**424.70**	**0.00**		**0.00**	**0.00**
	Taralgatta	MF	IX-11	156.20	-	-	-		-	-	-	1.01	-	-	-	-	-	56.00	-	-		99.19	-
	Kengatte	SR	IX-19	296.26	-	-	-		-	-	-	42.26	-	-	-	-	-	254.00	-	-		-	-
	Kallenahalli	Pln	IX-23	202.35	-	-	-		-	-	-	-	-	-	-	-	-	202.35	-	-		-	-
	Kesarghatta	TR	X-20	174.03	-	-	-		102.03	-	102.03	-	-	-	-	-	-	72.00	102.03	-		-	-
	Kutrahalli	SR	X-22	534.74	-	-	-		-	-	-	-	-	-	-	-	-	442.00	-	21.72		71.02	-
	Harnahalli	SR	IX-24	503.50	-	-	-		-	-	-	-	30.00	-	-	-	-	96.00	-	377.50		-	-
	Nagenhalli	Blk	X-23	232.32	-	-	-		-	-	-	51.32	-	-	-	-	-	181.00	-	-		-	-
	Basavapura	Blk	IX-25	445.74	-	-	-		292.74	-	-	-	-	-	-	-	-	153.00	292.74	-		-	-
				-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-
				14471.20	**0.00**	**0.00**	**0.00**	**1230.37**	**6109.93**	**287.65**	**2976.38**	**2785.18**	**40.00**	**46.00**	**0.00**	**499.00**	**0.00**	**2504.79**	**6397.58**	**399.22**		**1462.77**	**336.66**
i)	**Shiralkoppa**																						
	Arekoppa	SF	VII-8	359.37	-	-	-		-	-	-	255.09	-	-	-	-	-	41.00		359.37		63.28	-
	Basavanandihalli	SF	VIII-4	410.90	-	-	-		-	-	-	23.98	-	40.00	-	60.00	-	23.50		410.90		263.42	-
			VIII-5	248.02	-	-	-		-	-	-	84.02	-	-	-	-	-	14.00		248.02		150.00	-
			VIII-6	247.61	-	-	-		-	-	-	103.95	-	-	-	-	-	56.00		247.61		87.66	-
				906.53	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**211.95**	**-**	**40.00**	**-**	**60.00**	**-**	**93.50**	**0.00**	**906.53**		**501.08**	**-**
	Belandur	SF	XII-3(p)	50.00	-	-	-		-	50.00	-	-	-	-	-	-	-	-	50.00	50.00		-	-
			XII-4(p)	30.91	-	-	-		-	30.91	-	-	-	-	-	-	-	-	30.91	30.91		-	-
			XII-5(p)	62.50	-	-	-		-	62.50	-	-	-	-	-	-	-	-	62.50	62.50		-	-
				143.41	**0.00**	**0.00**	**0.00**		**0.00**	**143.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**143.41**	**143.41**		**0.00**	**0.00**
	Chandrakala	SF	IX-1(P)	16.28	-	-	-		-	-	-	16.28	-	-	-	-	-	-		16.28		-	-
			IX-7(P)	14.20	-	-	-		-	-	-	14.20	-	-	-	-	-	-		14.20		-	-
			IX-8(P)	37.50	-	-	-		-	-	-	37.50	-	-	-	-	-	-		37.50		-	-
				67.98	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**67.98**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**67.98**		**0.00**	**0.00**
	Chikkasavi	SF	VII-10	278.77	-	-	-		82.50	-	82.50	-	-	20.00	-	20.00	-	83.00	82.50	278.77		73.27	-
	Guddadahosalli	SF	VII-7	195.50	-	-	-	195.50	-	-	-	-	-	-	-	-	-	38.74	-	195.50		156.76	-
	Kavadi	SF	VII-11	453.26	-	-	-		111.46	-	-	-	-	23.00	-	163.93	-	41.11	111.46	453.26		113.76	-
	Kavali	SF	VIII-1	259.00	-	-	-			-	-	111.90	-	29.00	-	81.10	-	37.00	111.90	259.00		-	-
	Karjikoppa	SF	III-16(P)	45.72	-	-	-			11.72	-	-	-	-	-	-	-	34.00	11.72	45.72		-	-
	Shigga - I	SF	VII-12	372.46	-	-	-		169.46		-	-	-	-	-	-	-	203.00	169.46	372.46		-	-
	Shigga - II	SF	VII-13	211.87	-	-	-		-	6.14	-	-	-	-	-	-	-	70.00	6.14	211.87		135.73	-
	Syadalkoppa - I	SF	VII-16	109.67	-	-	-		49.33	-	49.33	-	-	-	-	-	-	32.00		109.67		28.34	-
	Syadalkoppa - II	SF	VII-17	116.96	-	-	-		53.96	-	53.96	-	-	-	-	-	-	63.00		116.96		-	-
	Togarsi	SF	VII-4	259.00	-	-	-		-	-	-	-	-	35.00	-	131.00	-	7.00		259.00		86.00	-
	Udri	SF	VII-2	405.93	-	-	-	405.93	169.97	-	-	-	-	-	-	34.00	-	94.00	169.97	405.93		107.96	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
	Adaganti	MF	VIII-14	99.05	-	-	-		-	-	-	9.05	-	-	-	-	-	90.00		99.05		-	-
	Basavanandihalli	MF	VIII-8	114.17	-	-	-		-	-	-	-	-	37.00	-	77.17	-	-		114.17		-	-
	Biliki	MF	VIII-3	138.81	-	-	-		-	-	-	21.81	-	-	-	-	-	117.00		138.81		-	-
	Bisalahalli	MF	VIII-7	97.54	-	-	-		-	-	-	69.54	-	-	-	-	-	28.00		97.54		-	-
	Chittur	MF	VII-18	148.84	-	-	-		-	-	-	-	-	-	-	-	-	148.84		148.84		-	-
	Chimnur	MF	III-8(P)	48.72	-	-	-		-	-	-	48.72	-	-	-	-	-	-		48.72		-	-
	Guddenakoppa	MF	VII-1	191.48	-	-	-	191.48	-	-	-	91.48	-	-	-	-	-	100.00		191.48		-	-
	Induvalli	MF	VII-15	143.42	-	-	-		-	73.42	-	-	-	-	-	-	-	70.00	73.42	143.42		-	-
	Jambur	MF	VIII-10	466.52	-	-	-		-	-	-	-	-	-	-	-	-	212.22		466.52		254.30	-
			VIII-11	374.67	-	-	-		-	-	-	-	-	-	-	-	-	174.67		374.67		200.00	-
				841.19	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**386.89**	**0.00**	**841.19**		**454.30**	**0.00**
	Kodihalli	MF	VII-5	227.06	-	-	-	227.06	10.21	-	-	-	-	-	-	-	-	59.00	10.21	227.06		157.85	-
	Manmane	MF	VII-9	82.96	-	-	-		-	-	-	17.96	-	-	-	-	-	65.00		82.96		-	-
	Manchikoppa	MF	VIII-9	195.98	-	-	-		-	-	-	-	-	-	-	-	-	195.98		195.98		-	-
	Muttige	MF	VIII-12	391.38	-	-	-		-	-	-	8.38	40.00	-	-	-	-	243.00		391.38		100.00	-
			VIII-13	314.72	-	-	-		-	-	-	14.52	-	-	-	-	-	149.00		314.72		151.20	-
				706.10	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**22.90**	**40.00**	**0.00**	**0.00**	**0.00**	**0.00**	**392.00**	**0.00**	**706.10**		**251.20**	**0.00**
	N.Devikoppa	MF	VII-6	284.56	-	-	-	284.56	-	-	-	164.62	-	-	-	-	-	41.00		284.56		78.94	-
	Shigga	MF	VII-14	143.29	-	-	-		-	126.29	-	-	-	-	-	-	-	17.00	126.29	143.29		-	-
	Shivapura	MF	VIII-2	210.28	-	-	-		-	-	-	30.28	-	-	-	-	-	130.00	-	210.28		50.00	-
	Syadalkoppa	MF	VII-20	140.63	-	-	-		-	51.63	-	-	-	-	-	-	-	89.00	51.63	140.63		-	-
	Talagunda	MF	VII-3	77.09	-	-	-		-	-	-	-	-	-	-	-	-	9.29		77.09		67.80	-
	Udugani	MF	VII-19	238.32	-	-	-		-	-	-	117.32	-	-	-	-	-	121.00		238.32		-	-
					-	-	-		-	-	-	-	-	-	-	-	-	-		-		-	-
				8314.92	**0.00**	**0.00**	**0.00**	**1304.53**	**646.89**	**412.61**	**185.79**	**1240.60**	**40.00**	**184.00**	**0.00**	**567.20**	**0.00**	**2897.35**	**1068.11**	**8314.92**		**2326.27**	**0.00**
j)	**Sorab**																						
	Absi	SF	II-8	330.96	-	-	-		174.72	-	-	-	-	-	0.45	70.00	-	3.00	174.72	330.96		82.79	-
	Avalgodu	SF	III-11	375.11	-	-	-		-	337.11	-	-	-	-	-	30.00	-	8.00	337.11	375.11		-	-
			III-12	352.68	-	-	-		-	282.68	-	-	-	-	-	-	-	70.00	282.68	352.68		-	-
				727.79	**0.00**	**0.00**	**0.00**		**0.00**	**619.79**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**30.00**	**0.00**	**78.00**	**619.79**	**727.79**		**0.00**	**0.00**
	Belandur	SF	XII-1(p)	187.50	-	-	-		-	187.50	-	-	-	-	-	-	-	-	187.50	187.50		-	-
			XII-2(p)	100.00	-	-	-		-	100.00	100.00	-	-	-	-	-	-	-	100.00	100.00		-	-
			XII-3(p)	12.50	-	-	-		-	12.50	-	-	-	-	-	-	-	-	12.50	12.50		-	-
				300.00	**0.00**	**0.00**	**0.00**		**0.00**	**300.00**	**100.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**300.00**	**300.00**		**0.00**	**0.00**
	Chandragutti	SF	I-9	237.86	-	-	-		170.67	-	170.67	-	-	-	32.19	-	-	35.00	170.67	237.86		-	-
			I-10	211.33	-	-	-		170.75	-	170.75	-	-	-	30.58	-	-	10.00	170.75	211.33		-	-
			I-11	218.85	-	-	-		195.54	-	195.54	-	-	-	16.31	-	-	7.00	195.54	218.85		-	-
			I-12	331.40	-	-	-		251.93	-	251.93	-	-	-	63.47	-	-	16.00	251.93	331.40		-	-
			I-13	251.44	-	-	-		188.44	-	188.44	-	-	-	-	-	-	63.00	188.44	251.44		-	-
			I-14	201.98	-	-	192.01		-	-	-	-	-	-	5.97	-	-	4.00	-	201.98		-	-
			I-15	276.75	-	-	-			276.75	-	-	-	-	-	-	-	-	276.75	276.75		-	-
			I-16	212.92	-	-	-		191.27	-	191.27	-	-	-	21.65	-	-	-	191.27	212.92		-	-
				1942.53	**0.00**	**0.00**	**192.01**		**1168.60**	**276.75**	**1168.60**	**0.00**	**0.00**	**0.00**	**170.17**	**0.00**	**0.00**	**135.00**	**1445.35**	**1942.53**		**0.00**	**0.00**
	Gunjanur	SF	II-3	308.37	-	-	-		-	280.37	-	-	-	-	-	22.00	-	6.00	280.37	308.37		-	-
	Halagalale	SF	III-9	316.40	-	-	-		-	285.40	-	-	-	-	-	15.00	-	16.00	285.40	316.40		-	-
	Harishi - I	SF	I-5	122.99	-	-	-		64.06	-	-	-	-	-	40.93	-	-	18.00	-	122.99		-	-
	Harishi - II	SF	I-6	174.73	-	-	-		-	112.89	-	-	-	-	57.84	-	-	4.00	-	174.73		-	-
	Hirehavali	SF	III-4	105.50	-	-	-		-	105.50	-	-	-	-	-	-	-	-	105.50	105.50		-	-
			III-5	164.00	-	-	-	164.00	-	139.00	-	-	-	-	-	-	-	25.00	139.00	164.00		-	-
				269.50	**0.00**	**0.00**	**0.00**	**164.00**	**0.00**	**244.50**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**25.00**	**244.50**	**269.50**		**0.00**	**0.00**
	Idur	SF	I-3	168.78	-	-	-		-	160.46	160.46	-	-	-	6.32	-	-	2.00	160.46	168.78		-	-
			I-4	245.26	-	-	-		-	220.26	220.26	-	-	-	-	-	-	25.00	220.26	245.26		-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
				414.04	**0.00**	**0.00**	**0.00**		**0.00**	**380.72**	**380.72**	**0.00**	**0.00**	**0.00**	**6.32**	**0.00**	**0.00**	**27.00**	**380.72**	**414.04**		**0.00**	**0.00**
	Karjikoppa	SF	III-14	259.84	-	-	-		-	246.84	-	-	-	-	-	-	-	13.00	246.84	259.84		-	-
			III-15	418.65	-	-	-		-	397.65	-	-	-	-	-	-	-	21.00	397.65	418.65		-	-
			III-16(P)	266.79		-	-		-	92.78	-	-	-	-	-	92.01	-	82.00	92.78	266.79		-	-
				945.28	**0.00**	**0.00**	**0.00**		**0.00**	**737.27**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**92.01**	**0.00**	**116.00**	**737.27**	**945.28**		**0.00**	**0.00**
	Kuntagalale - I	SF	I-7	353.45	-	-	-		321.34	-	321.34	-	-	-	20.11	-	-	12.00	321.34	353.45		-	-
	Kuntagalale - II	SF	I-8	328.13	-	-	-		278.13	-	278.13	-	-	-	47.00	-	-	3.00	278.13	328.13		-	-
	Kyasanur - I	SF	II-17	336.84	-	-	-		-	280.34	280.34	-	-	-	-	-	-	17.00	280.34	336.84		-	-
	Kyasanur - II	SF	II-18	417.78	-	-	-		-	323.41	-	-	-	-	-	-	-	21.00	323.41	417.78		73.37	-
			II-19	161.13	-	-	-		-	32.19	-	-	-	-	-	50.07	-	38.39	32.19	161.13		40.48	-
				578.91	**0.00**	**0.00**	**0.00**		**0.00**	**355.60**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**50.07**	**0.00**	**59.39**	**355.60**	**578.91**		**113.85**	**0.00**
	Mysavi	SF	XV-3 (P)	31.25	-	-	-		-	31.25	-	-	-	-	-	-	-	-	31.25	31.25		-	-
			XV-4 (P)	102.12	-	-	-		-	102.12	-	-	-	-	-	-	-	-	102.12	102.12		-	-
			XV-5 (P)	93.41	-	-	-		-	93.41	93.41	-	-	-	-	-	-	-	93.41	93.41		-	-
				226.78	**0.00**	**0.00**	**0.00**		**0.00**	**226.78**	**93.41**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**226.78**	**226.78**		**0.00**	**0.00**
	Absi	MF	II-26	85.28	-	-	-		-	-	-	85.28	-	-	-	-	-	-	85.28	85.28		-	-
	Andige	MF	III-6	101.72	-	-	-		-	-	-	11.72	-	-	-	-	-	90.00	11.72	101.72		-	-
	Ankaravalli	MF	II-6	139.58	-	-	-		133.58	-	-	-	-	-	-	-	-	6.00	133.58	139.58		-	-
	Bhadrapura	MF	XV-2 (P)	100.28	-	-	-		-	40.89	-	-	-	-	-	59.39	-	-	40.89	100.28		-	-
	Chandragutti	MF	I-17	89.45	-	-	-		77.82	-	77.82	-	-	-	9.63	-	-	2.00	77.82	89.45		-	-
	Chilanur	MF	II-13	46.56	-	-	-		-	23.56	-	-	-	-	-	-	-	23.00	-	46.56		-	-
	Chimnur	MF	III-8	620.52	-	-	-		-	587.52	-	-	-	28.00	-	-	-	5.00	587.52	620.52		-	-
	Dandavathi	MF	III-1	192.51	-	-	-		-	168.51	-	-	-	14.00	-	-	-	10.00	168.51	192.51		-	-
			III-2	274.89	-	-	-		-	219.89	-	-	-	-	-	-	-	55.00	219.89	274.89		-	-
				467.40	**0.00**	**0.00**	**0.00**		**0.00**	**388.40**	**0.00**	**0.00**	**0.00**	**14.00**	**0.00**	**0.00**	**0.00**	**65.00**	**388.40**	**467.40**		**0.00**	**0.00**
	Dugur	MF	III-17	102.48	-	-	-		-	90.48	-	-	-	12.00	-	-	-	-	90.48	102.48		-	-
	Gunjanur	MF	II-4	111.04	-	-	-		-	-	-	101.96	-	-	3.08	-	-	6.00	101.96	111.04		-	-
	Harishi	MF	I-1	178.57	-	-	-		-	78.69	78.69	-	-	-	85.88	-	-	14.00	78.69	178.57		-	-
	Hechi	MF	II-5	147.96	-	-	-		-	-	-	-	132.96	-	-	-	-	15.00	-	147.96		-	-
	Heggodu	MF	III-10	159.41	-	-	-		-	154.41	-	-	-	-	-	-	-	5.00	154.41	159.41		-	-
	Hirehavali	MF	III-3	93.48	-	-	-	93.48	-	90.48	-	-	-	-	-	-	-	3.00	90.48	93.48		-	-
	Hosabale	MF	II-14	167.81	-	-	-		3.98	-	-	-	-	-	63.83	5.00	-	-	3.98	167.81		-	95.00
	Jamballi	MF	II-2	235.47	-	-	-		-	171.47	-	-	-	35.00	-	-	-	29.00	171.47	235.47		-	-
	Kaisodi	MF	XV-1	87.41	-	-	-		50.41	-	-	-	-	-	-	-	-	37.00	50.41	87.41		-	-
	Kakkarsi	MF	II-9	297.12	-	-	-		-	297.12	297.12	-	-	-	-	-	-	-	297.12	297.12		-	-
	Kanthanhalli	MF	II-1	230.86	-	-	-		-	230.86	-	-	-	-	-	-	-	-	230.86	230.86		-	-
	Kamalapura	MF	I-18	144.46	-	-	139.46		-	-	-	-	-	-	-	-	-	5.00	-	144.46		-	-
	Kamarur	MF	I-2	121.41	-	-	-		-	-	-	-	-	28.00	86.15	-	-	7.26		121.41		-	-
	Kodakani	MF	III-7	352.63	-	-	-	352.63	-	196.16	196.16	-	-	-	-	-	-	35.00	196.16	352.63		121.47	-
	Kyasanur	MF	II-15	10.12	-	-	-		-	10.12	-	-	-	-	-	-	-	-	10.12	10.12		-	-
	Nadahalli	MF	II-11	369.05	-	-	-		221.05	-	-	-	-	-	-	-	-	148.00	221.05	369.05		-	-
	Nyarsi	MF	I-19	176.18	-	-	-		129.74	-	86.15	-	-	-	5.44	-	-	9.00	129.74	176.18		-	32.00
	Sagadde	MF	III-13	362.48	-	-	-		-	344.48	-	-	-	-	-	-	-	18.00	344.48	362.48		-	-
	Shanthkoppa	MF	II-12	104.20	-	-	-		-	104.20	-	-	-	-	-	-	-	-	104.20	104.20		-	-
	Tyavagodu	MF	IV-11	20.23	-	-	-		-	20.23	-	-	-	-	-	-	-	-	20.23	99.15		-	-
	Thandige	MF	II-7	99.15	-	-	-		-	99.15	-	-	-	-	-	-	-	-	99.15	20.23		-	-
	Vantigadde	MF	II-16	149.74	-	-	-		-	149.74	-	-	-	-	-	-	-	-	149.74	149.74		-	-
	Yalasi	MF	II-10	193.48	-	-	-		-	126.48	-	-	-	28.00	-	-	-	39.00	126.48	193.48		-	-
	Baragi	RF	II 22	72.04	-	-	-		-	44.08	-	-	-	-	-	-	-	27.96	44.08	72.04		-	-
	Bennuru	RF	IV-19	34.80	-	-	-		-	-	-	29.47	-	-	-	-	-	5.33	29.47	34.80		-	-
	Chilanur	RF	II-24	67.63	-	-	-		-	45.47	-	-	-	-	-	-	-	22.16	45.47	67.63		-	-
	Edur	RF	I-20	191.48	-	-	-		-	191.48	-	-	-	-	-	-	-	-	191.48	191.48		-	-
	Harishi	RF	I-21	21.51	-	-	-		-	-	-	14.95	-	-	-	-	-	6.56	14.95	21.51		-	-
	Kyasanur	RF	I-25	127.48	-	-	-		-	127.48	-	-	-	-	-	-	-	-	127.48	127.48		-	-

1	2		3	4	5 (a)	5 (b)	5 (c)	5 (d)	6	7	8	9a	9b	9 c	9 d	9 e	9 f	9 g	10	11	12	13	14
	Magadi	RF	II-23	79.72	-	-	-		-	-	-	79.72	-	-	-	-	-	-	79.72	79.72		-	-
	Ulavi	RF	III 18	19.99	-	-	-		-	5.11	-	-	-	-	-	-	-	14.88	5.11	19.99		-	-
	Veerannapura	RF	II 20	38.84	-	-	-		-	21.66	-	-	-	-	-	-	-	17.18	21.66	38.84		-	-
					-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-
				13895.72	**0.00**	**0.00**	**331.47**	**610.11**	**2623.43**	**7740.13**	**3358.48**	**323.10**	**132.96**	**145.00**	**596.83**	**343.47**	**0.00**	**1174.72**	**10486.15**	**13895.72**	**0.00**	**318.11**	**127.00**
		Grand Total		**147829.40**	**21792.48**	**1239.05**	**2986.30**	**8157.19**	**17536.15**	**34075.46**	**16126.76**	**7340.31**	**4054.98**	**727.00**	**894.92**	**7315.60**	**259.09**	**18213.23**	**51100.58**	**65593.13**	**21183.86**	**6396.77**	**3494.50**

This is Exclusive of Encroachment in the Sanctuary area. The Total area is As shown in the Column "Compartment Details".

Submersion

Annexure – 9

Form No. 3 [(Rule No. 51(1)]

Control Book Register of Yield and Out –Turn.

Working Circle ……Felling Series……. Range…… Division……
Circle……. For the year…….

					Result of Operation							Excess or dificit of previous years, if any, adjusted during the year	Remarks
	Locality exploited				Timber and Fire wood					Other Produce			
Year	Forest And Block	Compartment No	Area	Nature of fellings made.	Species	No. of trees felling	No of Lays, Poles, etc	Volume of timber	Out turn of Fire wood	Number and for quantity of other produce	Value		

i. Prescribed by the Working Plan.
ii. Suggested by the Working Plan.
iii. Neither suggested, not prescribed.

Dy Conservator of Forest
……Division.

Annexure – 10

Form No. 4 [(Rule No. 51(1)]

Control Book Register of Yield and Out –Turn.

Working Circle ……Felling Series……. Range…… Division……
Circle……. For the year…….

Provision of the Plan				Kind and number of trees to be felled or the quantity of material to be exploited	Operations actually carried out					Kind and number of trees felled or the quantity of material exploited	Comparison of result				Remarks
Locality to be exploited					Locality Exploited						By area		By number of trees and volume or quantity of other produce		
Forest or Block	Compartment No	Area	Nature of fellings		Year	Forest or Block	Compartment No	Area	Nature of fellings		Excess	Deficit	Excess	Deficit	

Dy Conservator of Forest
……Division.

Annexure - 11

Abstract of the compartment wise analysed Inventory data shwoing total number of trees & the Basal area.

Sl. No	Name of the Forest		Block & Compt.	Extent Ha.	Net wooded area	5 Sd	10 Usd	10 Sd	20 Usd	20 Sd	30 Usd	30 Sd	40 Usd	40 Sd	50 Usd	50 Sd	60 Usd	60 Sd	70 Usd	70 Sd	80 Usd	80 Sd	90 Usd	90 SD	Total	Basal Area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
a)	**Ambligola**																									
	Belandur	SF	XII-5(p)	137.50	55.50	1932	0	2484	0	3312	0	2208	0	2001	0	621	0	69	0	69	0	138	0	0	12834	
						9		44		163		212		318		148		23		30		78			1025	18
			XII-6	466.56	268.56	43824	-	12616	-	25896	-	7636	-	996	-	996	-	-	-	332	-	-	-	-	92296	
						194		223		1271		735		158		237				147					2964	11
			XII-7	334.09	247.09	20650	0	4130	0	6608	0	12803	0	9086	0	6195	0	3717	0	2065	0	0	0	826	66080	
						91		73		324		1232		1445		1472		1234		912				526	7309	30
			XII-8	363.8	303.80	21000	0	13500	0	13875	0	14250	0	6750	0	5625	0	1875	0	1125	0	750	0	1125	79875	
						93		239		681		1371		1074		1337		622		497		426		716	7055	23
			XII-9(P)	68.46	58.46	7632	0	3672	0	4320	0	2592	0	1368	0	0	0	504	0	72	0	0	0	72	20232	
						34		65		212		249		218		0		167		32				46	1023	17
			XII-10	390.29	261.39	17442	-	7752	-	11628	-	8398	-	6137	-	2261	-	969	-	1292	-	646	-	1292	57817	
						77		137		571		808		976		537		322		571		367		822	5188	20
			XII-11	378.52	300.50	70861	0	16324	0	14098	0	9646	0	10759	0	3339	0	1484	0	1113	0	371	0	0	127995	
						313		289		692		928		1711		793		493		492		211		0	5921	20
			XII-12	383.29	372.59	42780	0	15180	0	19780	0	15180	0	8740	0	4140	0	1840	0	460	0	460	0	460	109020	
						189		268		971		1461		1390		984		611		203		261		293	6631	18
			XII-13	494.30	422.30	28710	0	26622	0	19836	0	10440	0	6264	0	1566	0	3132	0	1044	0	1044	0	1044	99702	
						127		471		974		1005		996		372		1039		461		592		664	6702	16
			XII-14	458.03	278.03	33722	0	31648	0	13072	0	8256	0	5160	0	1032	0	344	0	688	0	688	0	344	94954	
						149		559		642		794		821		245		114		304		390		219	4238	15
			XII-15	460.56	460.56	26530	0	10991	0	8717	0	6443	0	8717	0	3411	0	3411	0	1137	0	379	0	379	70115	
						117		194		428		620		1387		811		1132		502		215		241	5647	12
			XII-16	429.46	282.46	10121	0	7678	0	11168	0	6282	0	8027	0	1396	0	698	0	2094	0	349	0	0	47813	
						45		136		548		604		1277		332		232		925		198		0	4297	15
			XII-17	452.00	241.00	31886	0	12516	0	10728	0	7152	0	3874	0	894	0	596	0	298	0	0	0	0	67944	
						141		221		527		688		616		212		198		132					2735	11
			XII-18	523.63	423.63	121737	0	44795	0	28985	0	34255	0	31620	0	5270	0	0	0	5270	0	0	0	0	271932	
						538		792		1423		3296		5030		1252				2329					14659	35
	Kardibetta	SF	XI-5	118.05	91.05	6944	0	4368	0	784	0	448	0	112	0	112	0	112	0	0	0	0	0	0	12880	
						31		77		38		43		18		27		37							271	3
			XI-6	230.69	180.69	10481	0	11819	0	6244	0	6244	0	669	0	223	0	223	0	223	0	446	0	0	36572	
						46		209		307		601		106		53		74		99		253		0	1748	10
			XI-7	238.58	141.58	13825	0	26250	0	8225	0	1400	0	525	0	175	0	0	0	0	0	0	0	0	50400	
						61		464		404		135		84		42		0		0		0		0	1189	8
			XI-8	195.63	4.04	300	0	625	0	215	0	85	0	25	0	0	0	0	0	0	0	0	0	0	1250	
						1		11		11		8		4		0		0		0		0		0	35	9
			XI-9	229.82	75.34	6789	0	13671	0	6510	0	465	0	465	0	186	0	93	0	186	0	0	0	0	28365	
						30		242		320		45		74		44		31		82		0		0	867	12

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			XI-10	109.93	28.23	3815	0	5635	0	385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9835	
						17		100		19		0		0		0		0		0		0		0	135	5
			XI-11	275.87	44.87	1320	0	880	0	770	0	385	0	275	0	220	0	55	0	55	0	110	0	0	4070	
						6		16		38		37		44		52		18		24		62		0	297	7
			XI-12	222.81	222.81	19525	0	28050	0	8800	0	4125	0	1925	0	1650	0	0	0	550	0	275	0	1	64901	
						86		496		432		397		306		392		0		243		156		1	2509	11
			XI-13	127.67	108.67	5762	0	6566	0	2680	0	2412	0	2278	0	670	0	536	0	536	0	0	0	0	21440	
						25		116		132		232		362		159		178		237		0		0	1441	13
			XI-14	168.78	168.78	23826	0	16511	0	5643	0	3344	0	2299	0	1463	0	418	0	209	0	0	0	0	53713	
						105		292		277		322		366		348		139		92		0		0	1940	11
			XI-15	329.17	184.69	12084	0	7752	0	7752	0	2736	0	2052	0	456	0	456	0	684	0	0	0	0	33972	
						53		137		381		263		326		108		151		302		0		0	1723	9
			XI-16	223.55	160.55	15642	0	9306	0	3960	0	792	0	990	0	198	0	0	0	396	0	0	0	0	31284	
						69		164		194		76		157		47		0		175		0		0	884	6
			XI-17	178.75	158.75	43316	0	22344	0	3528	0	196	0	0	0	0	0	0	0	0	0	0	0	0	69384	
						191		395		173		19													778	5
			XI-18	312.45	259.97	14766	0	19260	0	13482	0	6741	0	1926	0	1284	0	1284	0	0	0	0	0	642	59385	
						65		340		662		649		306		305		426							2754	11
			XI-19	190.55	167.55	12420	0	12213	0	5382	0	2277	0	621	0	414	0	0	0	207	0	0	0	0	33534	
						55		216		264		219		99		98				91					1043	6
			XI-20	144.92	110.92	10001	0	8631	0	2877	0	2329	0	411	0	137	0	274	0	0	0	0	0	0	24660	
						44		153		141		224		65		33		91							751	7
			XI-21	260.05	182.05	22725	0	8775	0	9900	0	4500	0	900	0	225	0	450	0	225	0	225	0	675	48600	
						100		155		486		433		143		53		149		99		128		429	2177	12
			XI-22(P)	167.19	165.19	12036	0	13464	0	48960	0	4488	0	1020	0	816	0	408	0	0	0	0	0	0	81192	
						53		238		2404		432		162		194		135							3618	22
			XI-26(P)	171.48	67.00	6972	0	3735	0	4233	0	2407	0	498	0	166	0	0	0	0	0	0	0	0	18011	
						31		66		208		232		79		39									655	10
			XI-27(P)	245.21	0.91	54	0	50	0	52	0	37	0	9	0	3	0	1	0	0	0	1	0	1	208	
						0		1		3		4		1		1		0		0		1		1	11	12
			XI-28(P)	149.12	118.12	15476	0	4234	0	9198	0	10950	0	3942	0	1898	0	292	0	292	0	146	0	0	46428	
						68		75		452		1054		627		451		97		129		83			3035	26
			XI-30	210.24	186.24	14950	0	11270	0	8050	0	3450	0	2530	0	690	0	230	0	460	0	0	0	230	41860	
						66		199		395		332		402		164		76		203		0		146	1985	11
			XI-31	293.78	166.78	10686	0	14522	0	9453	0	4110	0	2603	0	137	0	274	0	137	0	137	0	0	42059	
						47		257		464		395		414		33		91		61		78			1839	11
			XI-32(p)	102.2	70.20	8700	0	5307	0	5307	0	2349	0	1044	0	435	0	522	0	87	0	0	0	87	23838	
						38		94		261		226		166		103		173		38				55	1155	16
			XI-33(p)	61.25	61.25	7150	0	4000	0	4150	0	2900	0	1200	0	400	0	50	0	50	0	50	0	50	20000	
						32		71		204		279		191		95		17		22		28		32	970	16
	Haraginhalu	MF	XI-2	976.06	530.31	1310	0	7205	0	2620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11135	
						6		127		129		0		0		0		0							262	0
	Hariharapura	MF	XI-41	150.55	83.48	103	0	1339	0	1236	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2678	
						0		24		61		0		0		0		0		0		0		0	85	1
	Hireharka	MF	XI-42	202.75	0.00	811	0	7705	0	1419	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9935	
						4		136		70		0								0					209	0
	Kalmane	MF	XI-4	173.38	2.66	9	0	33	0	39	0	24	0	3	0	0	0	0	0	0	0	0	0	0	108	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						0		1		2		2		0		0		0							5	2
	Nadavalli	MF	XII-22	167.95	89.95	0	0	1665	0	2775	0	2109	0	0	0	0	0	0	0	0	0	0	0	0	6549	
						0		29		136		203		0		0				0					369	4
	Suthabande	MF	IX-13(P)	42.3	42.30	6240	0	1820	0	1040	0	728	0	156	0	624	0	52	0	156	0	0	0	0	10816	
						28		32		51		70		25		148		17		69		0		0	440	10
b)	**Anandpuram**																									
	Chipli	SF	XIII-6	292.37	56.37	5838	0	6255	0	2363	0	278	0	278	0	0	0	0	0	0	0	0	0	0	15012	
						26		111		116		27		44		0		0		0		0		0	323	6
			XIII-7	232.03	30.10	2368	0	3589	0	1813	0	925	0	222	0	0	0	0	0	0	0	0	0	0	8917	
						10		63		89		89		35		0		0		0		0		0	287	10
	Chipli Aigenbylu	SF	XIII-24	190.22	112.60	2502	0	7228	0	1390	0	2224	0	1668	0	0	0	834	0	0	0	0	0	0	15846	
						11	-	128	-	68	-	214	-	265	-	0	-	277	-	0	-	0	-	0	963	9
	Gilalgundi	SF	XIV-3	153.55	138.55	3591	0	7182	0	7524	0	7866	0	3762	0	684	0	171	0	0	0	0	0	0	30780	
						16		127		369		757		598		163		57		0		0		0	2087	15
			XIV-4	99.92	93.92	1392	0	8120	0	8004	0	3712	0	1392	0	232	0	580	0	0	0	232	0	0	23664	
						6		144		393		357		221		55		192		0		132		0	1500	16
			XIV-5	357.46	237.96	3528	0	7350	0	7938	0	6762	0	4998	0	2646	0	2058	0	1470	0	1470	0	2352	40572	
						16		130		390		651		795		629		683		650		834		1496	6273	26
			XIV-6	211.65	197.65	7564	0	9028	0	9516	0	7076	0	3172	0	2196	0	976	0	488	0	0	0	0	40016	
						33		160		467		681		505		522		324		216		0		0	2907	15
			XIV-7	299.73	289.73	7876	0	13962	0	8592	0	5370	0	6444	0	1432	0	716	0	0	0	358	0	0	44750	
						35		247		422		517		1025		340		238		0		203		0	3026	10
	Kardibetta	SF	XI-22(P)	41.79	41.79	3068	0	3432	0	12480	0	1144	0	260	0	208	0	104	0	0	0	0	0	0	20696	
						14		61		613		110		41		49		35							922	22
			XI-23	184.01	132.01	10106	0	6846	0	3260	0	2282	0	163	0	163	0	0	0	0	0	0	0	0	22820	
						45		121		160		220		26		39									610	5
			XI-25	282.4	80.01	1980	0	2673	0	4356	0	2079	0	495	0	594	0	99	0	0	0	99	0	198	12573	
						9		47		214		200		79		141		33				56		126	905	11
			XI-26(P)	42.86	18.86	1932	0	1035	0	1173	0	667	0	138	0	46	0	0	0	0	0	0	0	0	4991	
						9		18		58		64		22		11									181	10
			XI-27(P)	43.27	43.27	5778	0	5350	0	5564	0	3959	0	963	0	321	0	107	0	0	0	107	0	107	22256	
						26		95		273		381		153		76		36		0		61		68	1168	27
			XI-28(P)	99.41	99.41	13038	0	3567	0	7749	0	9225	0	3321	0	1599	0	246	0	246	0	123	0	0	39114	
						58		63		380		888		528		380		82		109		70			2557	26
			XI-29	246.85	176.85	25942	0	23108	0	7630	0	3488	0	1962	0	654	0	872	0	218	0	0	0	0	63874	
						115		408		375		336		312		155		289		96					2086	12
			XI-32(p)	238.46	208.46	25800	0	15738	0	15738	0	6966	0	3096	0	1290	0	1548	0	258	0	0	0	258	70692	
						114		278		773		670		492		307		514		114				164	3426	16
			XI-33(p)	347.46	244.92	28886	0	16160	0	16766	0	11716	0	4848	0	1616	0	202	0	202	0	202	0	202	80800	
						128		286		823		1127		771		384		67		89		115		129	3918	16
			XI-34	310.08	190.20	18330	0	26790	0	9165	0	5170	0	2115	0	470	0	235	0	235	0	0	0	705	63215	
						81		473		450		497		336		112		78		104		0		449	2580	14
			XI-35	297.00	270.00	33400	0	18036	0	19038	0	7682	0	1002	0	668	0	334	0	0	0	0	0	1002	81162	
						148		319		935		739		159		159		111						638	3207	12
			XI-36	371.88	317.88	21615	0	13362	0	18471	0	23973	0	4323	0	2358	0	393	0	786	0	2	786	786	86069	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						96		236		907		2307		688		560		130		347		1		500	5772	18
			XI-37	164.83	129.83	5920	0	5120	0	8320	0	3200	0	2240	0	1120	0	320	0	800	0	480	0	960	28480	
						26		90		408		308		356		266		106		353		272		611	2798	22
			XI-38	136.06	129.06	8745	0	3021	0	5088	0	2703	0	2544	0	636	0	318	0	0	0	318	0	159	23532	
						39		53		250		260		405		151		106				180		101	1545	12
			XI-39	141.81	140.81	19140	0	6438	0	5568	0	4176	0	1914	0	870	0	1044	0	348	0	0	0	174	39672	
						85		114		273		402		304		207		346		154				111	1996	14
			XI-40	264.51	238.51	11505	0	5900	0	6490	0	4720	0	5900	0	1180	0	1770	0	295	0	295	0	590	38645	
						51		104		319		454		938		280		587		130		167		375	3407	14
	Koragi	SF	XIV-8	334.56	287.56	12070	0	33015	0	18815	0	13135	0	2130	0	3195	0	710	0	710	0	1420	0	710	85910	
						53		583		924		1264		339		759		236		314		806		452	5729	20
			XIV-9	293.14	251.14	3720	0	8370	0	4340	0	4960	0	11160	0	3720	0	4030	0	930	0	1860	0	310	43400	
						16		148		213		477		1775		884		1337		411		1056		197	6515	26
			XIV-10	300.84	133.54	2310	0	10725	0	5940	0	2970	0	4455	0	1155	0	495	0	165	0	165	0	165	28545	
						10		190		292		286		709		274		164		73		94		105	2196	16
	Malandur	SF	XIII-8	245.99	59.51	2812	0	4218	0	3478	0	1406	0	370	0	222	0	222	0	74	0	74	0	0	12876	
						12	-	75	-	171	-	135	-	59	-	53	-	74	-	33	-	42	-	-	653	11
			XIII-9	195.05	60.05	1110	0	1924	0	814	0	1110	0	444	0	444	0	74	0	222	0	74	0	74	6290	
						5	-	34	-	40	-	107	-	71	-	106	-	25	-	98	-	42	-	47	574	10
			XIII-10	186.64	160.64	8756	0	5572	0	5174	0	4776	0	1791	0	995	0	398	0	796	0	199	0	199	28656	
						39	-	98	-	254	-	460	-	285	-	236	-	132	-	352	-	113	-	127	2095	13
			XIII-11	211.65	178.65	19669	0	17459	0	6851	0	6188	0	3536	0	2652	0	2431	0	1326	0	442	0	663	61217	
						87	-	309	-	336	-	595	-	562	-	630	-	807	-	586	-	251	-	422	4585	26
			XIII-12	254.59	206.59	20145	0	14025	0	14790	0	8160	0	1020	0	1530	0	1785	0	255	0	0	0	255	61965	
						89	-	248	-	726	-	785	-	162	-	364	-	592	-	113	-	0	-	162	3241	16
			XIII-13	245.83	125.83	8990	0	24645	0	8060	0	4340	0	1240	0	310	0	465	0	310	0	155	0	310	48825	
						40	-	436	-	396	-	418	-	197	-	74	-	154	-	137	-	88	-	197	2136	17
			XIII-14	219.57	4.49	420	0	498	0	144	0	144	0	66	0	84	0	18	0	6	0	0	0	0	1380	
						2	-	9	-	7	-	14	-	10	-	20	-	6	-	3	-	0	-	0	71	16
			XIII-15	162.77	8.77	880	0	1540	0	814	0	264	0	0	0	99	0	22	0	55	0	0	0	0	3674	
						4	-	27	-	40	-	25	-	0	-	24	-	7	-	24	-	0	-	0	152	17
			XIII-16	286.07	133.87	23265	0	9570	0	3630	0	3630	0	1650	0	1320	0	990	0	495	0	165	0	0	44715	
						103	-	169	-	178	-	349	-	262	-	314	-	329	-	219	-	94	-	0	2016	15
			XIII-17	199.63	43.23	3180	0	1908	0	1325	0	1272	0	1007	0	689	0	318	0	159	0	53	0	0	9911	
						14	-	34	-	65	-	122	-	160	-	164	-	106	-	70	-	30	-	0	765	18
			XIII-18	217.84	43.44	4158	0	6102	0	5130	0	972	0	324	0	108	0	162	0	162	0	108	0	216	17442	
						18	-	108	-	252	-	94	-	52	-	26	-	54	-	72	-	61	-	137	873	20
			XIII-19	164.41	48.34	5100	0	3900	0	2040	0	2520	0	360	0	840	0	540	0	120	0	120	0	0	15540	
						23	-	69	-	100	-	242	-	57	-	200	-	179	-	53	-	68	-	0	991	21
	Malandur Extn.	SF	XIII-25	1142.35	860.35	42520	0	57402	0	7441	0	9567	0	6378	0	2126	0	2126	0	1063	0	0	0	0	128623	
						188	-	1015	-	365	-	921	-	1015	-	505	-	706	-	470	-	0	-	0	5183	6
	Telaginmane	SF	XIII-1	117.65	77.65	2592	0	5088	0	4704	0	3072	0	1920	0	960	0	96	0	0	0	192	0	96	18720	
						11		90		231		296		305		228		32		0		109		61	1363	18
			XIII-2	237.81	218.81	13230	0	23220	0	24570	0	16200	0	2700	0	540	0	1350	0	270	0	0	0	0	82080	
						58		410		1206		1559		429		128		448		119		0		0	4359	20
			XIII-3	232.4	163.40	12524	0	14746	0	15352	0	9292	0	1616	0	808	0	808	0	0	0	0	0	202	55348	
						55		261		754		894		257		192		268		0		0		129	2809	17

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			XIII-4	107.52	107.52	12635	0	6916	0	10507	0	3990	0	1729	0	1330	0	399	0	532	0	0	0	0	38038	
						56		122		516		384		275		316		132		235		0		0	2036	19
	Adur	MF	XIII-21	574.26	178.07	32120	0	19800	0	12760	0	4620	0	1320	0	0	0	0	0	0	0	0	0	440	71060	
						142	-	350	-	626	-	445	-	210	-	0	-	0	-	0	-	0	-	280	2053	12
	Byrapura	MF	XIII-20	274.79	246.79	3660	0	12810	0	10065	0	7625	0	6405	0	3660	0	2135	0	610	0	0	0	0	46970	
						16	-	226	-	494	-	734	-	1019	-	870	-	709	-	270	-	0	-	0	4337	18
	Choradi	MF	XIV-12	128.73	0.00	10965	0	29799	0	5676	0	1161	0	129	0	0	0	0	0	0	0	0	0	0	47730	
						48		527		279		112		21		0		0		0		0		0	986	8
			XIV-13	89.76	0.00	6193	0	14810	0	1526	0	90	0	90	0	0	0	0	0	0	0	0	0	0	22710	
						27		262		75		9		14		0		0		0		0		0	387	4
	Konehosur (Reboi)	MF	XIV-1	185.90	0.00	2604	0	7998	0	7254	0	5394	0	3720	0	2046	0	930	0	0	0	0	0	378	30324	
						12		141		356		519		592		486		309		0		0		241	2655	14
			XIV-2	118.56	8.56	297	0	1254	0	1320	0	616	0	121	0	0	0	0	0	0	0	0	0	0	3608	
						1		22		65		59		19		0		0		0		0		0	167	19
	Sannivasa	MF	XIV-14	81.06	0.00	7371	0	21870	0	3321	0	243	0	0	0	0	0	0	0	0	0	0	0	0	32805	
						33		387		163		23		0		0		0		0		0		0	606	7
	Tuppur	MF	XIV-11	129.21	73.21	4770	0	6930	0	4140	0	2340	0	1170	0	450	0	360	0	0	0	0	0	0	20160	
						21		122		203		225		186		107		119		0		0		0	984	13
c)	**Anavatti**																									
	Arthalgadde	SF	V-8	259.00	219.00	18615	0	55845	0	17520	0	2190	0	0	0	0	0	0	0	0	0	0	0	0	94170	
						82		987		860		211		0		0		0		0		0		0	2140	10
	Bettadakurali	SF	VI-6	320.38	219.87	3808	0	47056	0	70720	0	25840	0	0	0	0	0	0	0	0	0	0	0	0	147424	
						17		832		3472		2486		0		0		0		0		0		0	6807	31
			VI-7	248.76	40.66	0	0	50	0	100	0	150	0	50	0	50	0	0	0	0	0	0	0	0	400	
						0		1		5		14		8		12		0		0		0		0	40	1
			VI-8	272.62	0.00	0	0	546	0	47775	0	34944	0	4095	0	273	0	0	0	0	0	0	0	0	87633	
						0		10		2345		3362		651		65		0		0		0		0	6434	0
	Kuppagadde	SF	IV-4	220.9	186.90	5775	0	5082	0	5544	0	3234	0	924	0	1386	0	1848	0	231	0	231	0	462	24717	
						26		90		272		311		147		329		613		102		131		294	2315	12
			IV-5	358.56	358.56	22593	0	12847	0	12847	0	16834	0	11075	0	8860	0	3101	0	886	0	886	0	1772	91701	
						100		227		631		1620		1762		2105		1029		391		503		1127	9495	26
	Talagadde	SF	V-2	143.76	85.18	14484	0	14484	0	1704	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30672	
						64		256		84		0		0		0		0		0		0		0	404	5
			V-3	293.82	16.82	3024	0	3192	0	672	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6888	
						13		56		33		0		0		0		0		0		0		0	103	6
	Tyavanandi	SF	IV-9	343.34	320.34	14652	0	18612	0	11484	0	10692	0	7128	0	9900	0	5544	0	1980	0	396	0	1980	82368	
						65		329		564		1029		1134		2352		1840		875		225		1260	9672	30
			IV-10	391.77	302.49	7480	0	8976	0	10472	0	11968	0	8976	0	2244	0	2618	0	2618	0	374	0	2992	58718	
						33		159		514		1152		1428		533		869		1157		212		1904	7960	26
	Dodderikoppa	MF	IV-8	153.49	137.49	170	0	1190	0	680	0	1700	0	1020	0	510	0	680	0	0	0	0	0	0	5950	
						1		21		33		164		162		121		226		0					728	5
	Hasvi	MF	VI-5	253.39	78.29	3589	291	582	388	679	485	1067	97	776	194	873	0	485	0	388	0	97	0	194	8730	
						16		10		33		103		123		207		161		171		55		123	1004	13
	Haya	MF	VI-11	101.17	71.17	413	0	236	0	885	0	1003	0	767	0	826	0	708	0	177	0	59	0	0	5074	
						2		4		43		97		122		196		235		78		33		0	811	11

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
	Hireyedagodu	MF	VI-9	270.37	76.37	658	0	658	0	1316	0	1316	0	564	0	188	0	94	0	94	0	0	0	0	4888	
						3		12		65		127		90		45		31		42		0		0	413	5
	Korakodu	MF	IV-7	247.05	177.05	27156	0	4380	0	4380	0	2409	0	2847	0	438	0	438	0	0	0	0	0	0	42048	
						120		77		215		232		453		104		145		0					1347	8
	Kotekoppa	MF	IV-1	206.71	156.71	2716	0	2134	0	970	0	582	0	194	0	0	0	194	0	388	0	0	0	194	7372	
						12		38		48		56		31		0		64		171					420	3
	Kuppagadde - I	MF	IV-6	80.94	60.94	6225	0	3075	0	2550	0	2400	0	1425	0	675	0	675	0	225	0	0	0	150	17400	
						28		54		125		231		227		160		224		99		0		95	1244	20
	Negavadi	MF	VI-10	102.94	62.94	78	0	78	0	312	0	546	0	156	0	78	0	156	0	78	0	78	0	78	1638	
						0		1		15		53		25		19		52		34		44		50	293	5
	Suranagi	MF	V-7	195.55	88.55	2834	0	1199	0	1090	0	981	0	1090	0	654	0	436	0	0	0	109	0	0	8393	
						13	-	21	-	54	-	94	-	173	-	155	-	145	-	-	-	62	-	-	717	8
	Talagadde	MF	V-6	193.46	43.46	1782	0	540	0	864	0	540	0	270	0	0	0	0	0	0	0	0	0	0	3996	
						8	-	10	-	42	-	52	-	43	-	-	-	-	-	-	-	-	-	-	155	4
	Talaguppa	MF	IV-3	252.25	155.25	9318	0	35719	0	29507	0	7765	0	0	0	0	0	0	0	0	0	0	0	0	82309	
						41		631		1449		747		0		0		0		0		0		0	2868	18
	Tallur	MF	VI-3	399.62	58.52	144	0	1656	0	1296	0	144	0	0	0	0	0	0	0	0	0	0	0	0	3240	
						1		29		64		14		0		0		0		0		0		0	107	2
			VI-4	451.37	161.37	1393	0	11940	0	7960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21293	
						6		211		391		0		0		0		0		0		0		0	608	4
	Tekkur	MF	IV-12	17.62	2.31	63	0	93	0	21	0	9	0	3	0	0	0	3	0	0	0	0	0	0	192	
						0		2		1		1		0		0		1		0					5	2
	Tyavagodu	MF	IV-11	161.01	140.01	17473	0	7785	0	6747	0	5536	0	3979	0	2595	0	1730	0	865	0	692	0	1211	48613	
						77		138		331		533		633		617		574		382		393		771	4448	32
	Tavanandi	MF	IV-16	114.01	97.01	1140	0	900	0	780	0	1080	0	1380	0	720	0	480	0	300	0	60	0	180	7020	
						5		16		38		104		220		171		159		133		34		115	994	10
	Siddarhalli	Pln	IV-2	226.63	45.57	2576	0	896	0	1008	0	560	0	448	0	336	0	336	0	112	0	0	0	0	6272	
						11		16		49		54		71		80		112		49		0		0	443	10
	Bilagalale	SR	V-1	123.05	14.05	1974	0	2256	0	423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4653	
						9		40		21		0		0		0		0		0		0		0	69	5
	Hurali	SR	VI-1	316.56	175.56	868	0	17143	0	19964	0	2170	0	0	0	0	0	0	0	0	0	0	0	0	40145	
						4		303		980		209		0		0		0		0		0		0	1496	9
			VI-2	317.26	172.26	1065	0	9159	0	8946	0	852	0	0	0	0	0	0	0	0	0	0	0	213	20235	
						5		162		439		82		0		0		0		0		0		136	823	5
	Kulaga	RF	IV-13	21.46	21.46	108	0	351	0	27	0	108	0	108	0	162	0	54	0	27	0	27	0	54	1026	
						0		6		1		10		17		38		18		12		15		34	154	7
d)	**Hosanagara**																									
	Haridravathi	SF	XXIV-6	127.60	127.60	34918	0	14536	0	13746	0	4424	0	1106	0	474	0	0	0	0	0	0	0	0	69204	
						154	-	257	-	675	-	426	-	176	-	113	-	-	-	-	-	-	-	-	1800	14
			XXIV-7	163.40	13.40	1479	-	357	-	578	-	493	-	221	-	204	0	68	0	0	0	17	0	0	3417	
						7	-	6	-	28	-	47	-	35	-	48	-	-	-	-	-	-	-	-	172	13
			XXIV-8	274.40	114.40	4935	0	846	0	2256	0	1974	0	2256	0	2397	0	282	0	141	0	0	0	0	15087	
						22	-	15	-	111	-	190	-	359	-	570	-	94	-	62	-	0	-	0	1422	12
			XXIV-9	186.59	186.59	7392	0	3696	0	6699	0	5775	0	5082	0	1386	0	924	0	231	0	231	0	0	31416	
						33	-	65	-	329	-	556	-	808	-	329	-	307	-	102	-	131	-	-	2660	14

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			XXIV-10	295.24	295.24	5110	0	8030	0	13140	0	14965	0	12775	0	5475	0	1460	0	1460	0	0	0	0	62415	
						23	-	142	-	645	-	1440	-	2032	-	1301	-	485	-	645	-	-	-	-	6712	23
			XXIV-11	277.64	106.34	1310	0	3406	0	3799	0	6026	0	3537	0	1703	0	262	0	0	0	0	0	0	20043	
						6	-	60	-	187	-	580	-	563	-	405	-	87	-	0	-	0	-	-	1887	18
			XXIV-12	245.66	149.36	17575	0	21830	0	6105	0	4255	0	2035	0	740	0	370	0	0	0	0	0	0	52910	
						78	-	386	-	300	-	409	-	324	-	176	-	-	-	-	-	-	-	-	1672	11
			XXIV-13	161.94	35.97	3300	0	3344	0	3696	0	1496	0	484	0	132	0	264	0	0	0	0	0	0	12716	
						15	-	59	-	181	-	144	-	77	-	31	-	-	-	-	-	-	-	-	507	14
			XXIV-14	296.06	255.81	2844	0	6636	0	7584	0	7584	0	7900	0	6004	0	2212	0	1264	0	0	0	0	42028	
						13	-	117	-	372	-	730	-	1257	-	1427	-	734	-	558	-	-	-	-	5208	20
			XXIV-15	195.32	146.82	724	0	3077	0	5430	0	4163	0	5249	0	4706	0	1810	0	724	0	724	0	1448	28055	
						3	-	54	-	267	-	401	-	835	-	1118	-	601	-	320	-	411	-	921	4931	34
	Haniya	SF	XXVII-1	279.10	279.10	27255	0	8625	0	6900	0	9315	0	2760	0	2760	0	0	0	0	0	0	0	0	57615	
						120		152		339		896		439		656		0		0		0		0	2603	9
			XXVII-2	241.85	221.85	27674	0	21372	0	18632	0	6576	0	3836	0	2740	0	1918	0	0	0	0	0	0	82748	
						122		378		915		633		610		651		637		0		0		0	3945	18
	Jamballi	SF	XXIV-16	295.96	198.96	6888	0	8364	0	7380	0	6888	0	1476	0	1476	0	492	0	492	0	0	0	0	33456	
						30	-	148	-	362	-	663	-	235	-	351	-	163	-	217	-	-	-	-	2170	11
			XXIV-17	438.62	314.22	20461	0	19425	0	17353	0	9583	0	2072	0	1036	0	777	0	0	0	0	0	0	70707	
						90	-	343	-	852	-	922	-	330	-	246	-	258	-	-	-	-	-	-	3041	10
	Jeni	SF	XXIII-1	262.4	158.40	1960	0	6860	0	4900	0	2156	0	2548	0	1568	0	1176	0	588	0	196	0	1176	23128	
						9	-	121	-	241	-	207	-	405	-	373	-	-	-	-	-	-	-	-	1356	9
			XXIII-2	217.02	191.02	3776	0	17936	0	14160	0	7552	0	1888	0	4248	0	1888	0	0	0	0	0	0	51448	
						17	-	317	-	695	-	727	-	300	-	1009	-	627	-	-	-	-	-	-	3692	19
			XXIII-3	159.92	97.92	3509	0	14520	0	7744	0	3509	0	2057	0	968	0	847	0	242	0	0	0	0	33396	
						16	-	257	-	380	-	338	-	327	-	230	-	281	-	-	-	-	-	-	1828	19
			XXIII-4	179.79	153.79	3230	0	9120	0	4940	0	3230	0	760	0	1520	0	950	0	0	0	0	0	0	23750	
						14	-	161	-	243	-	311	-	121	-	361	-	315	-	-	-	-	-	-	1526	10
	Kodur	SF	XXIV-1	311.73	302.73	16830	0	19074	0	15708	0	8228	0	7480	0	374	0	374	0	0	0	0	0	0	68068	
						132	-	599	-	1110	-	1034	-	1469	-	106	-	144	-	-	-	-	-	-	4595	15
			XXIV-2	163.65	161.65	10000	0	14200	0	10000	0	7000	0	2200	0	600	0	0	0	0	0	0	0	0	44000	
						44	-	251	-	491	-	674	-	350	-	143	-	-	-	-	-	-	-	-	1952	12
			XXIV-3	383.57	297.57	41216	-	30544	-	14352	-	16192	-	8832	-	5152	-	368	0	0	0	0	0	0	116656	
						182	-	540	-	705	-	1558	-	1405	-	1224	-	122	-	-	-	-	-	-	5736	19
			XXIV-4	148.46	146.46	27150	0	11946	0	10679	0	8145	0	5068	0	2534	0	543	0	0	0	0	0	0	66065	
						120	-	211	-	524	-	784	-	806	-	602	-	180	-	-	-	-	-	-	3228	22
			XXIV-5	359.73	322.73	35511	-	21945	-	16758	-	13566	-	7182	-	399	0	399	0	0	0	0	0	0	95760	
						157	-	388	-	823	-	1305	-	1142	-	95	-	-	-	-	-	-	-	-	3910	12
	Kolagi	SF	XXIII-9	191.56	167.56	13041	0	9522	0	8280	0	3726	0	1656	0	1863	0	0	0	0	0	0	0	0	38088	
						58	-	168	-	406	-	359	-	263	-	443	-	0	-	0	-	0	-	0	1697	10
			XXIII-10	200.93	125.93	7332	-	6084	-	8268	-	3432	-	1092	-	468	-	1092	-	-	-	156	-	-	27924	
						32	-	108	-	406	-	330	-	174	-	111	-	362	-	-	-	89	-	-	1612	13
	Sharavathi	SF	XXIII-11	183.66	171.66	3816	-	6148	-	8056	0	2332	0	424	0	848	0	0	0	0	0	0	0	0	21624	
						17	-	109	-	395	-	224	-	67	-	201	-	-	-	-	-	-	-	-	1014	6
			XXIII-12	276.5	253.50	5947	0	6886	0	6260	0	6260	0	2191	0	313	0	626	0	0	0	0	0	0	28483	
						26	-	122	-	307	-	602	-	349	-	74	-	208	-	0	-	0	-	0	1688	7
			XXIII-13	304.57	289.57	33652	0	30788	0	23270	0	12530	0	3222	0	716	0	1074	0	0	0	0	0	0	105252	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						264	-	967	-	1645	-	1575	-	633	-	202	-	413	-	-	-	-	-	-	5700	20
			XXIII-14	196.42	196.42	9720	-	11907	-	8262	-	6804	-	2430	-	2187	-	1215	-	243	-	-	-	-	42768	
						43	-	210	-	406	-	655	-	387	-	520	-	403	-	107	-	-	-	-	2730	14
	Sharmanavathi	SF	XXIII-6	195.05	132.05	2608	-	3586	-	2608	-	3260	-	652	-	489	-	163	0	163	0	163	0	163	13855	
						12	-	63	-	128	-	314	-	104	-	116	-	54	-	-	-	-	-	-	791	6
			XXIII-7	228.26	120.98	0	0	5364	0	9387	0	4619	0	1639	0	298	0	149	0	0	0	149	0	0	21605	
						-	-	95	-	461	-	444	-	261	-	71	-	49	-	-	-	85	-	-	1466	12
	Neelakanta	MF	XXIII-27	172.37	162.37	7619	0	17243	0	3208	0	3	1203	401	0	2005	0	1203	0	401	0	0	0	401	32484	
						34	-	305	-	157	-	0	-	64	-	476	-	399	-	177	-	0	-	255	1868	12
	Aduvalli	RF	XXIV-40	68.95	52.95	262	787	262	655	0	393	131	131	262	0	0	0	131	0	0	0	0	0	0	1048	
						1	6	5	-	0	-	13	-	42	-	0	-	-	-	-	-	-	-	-	60	1
	Alagerimandri	RF	XXIV-47	27.50	0.00	28	168	224	168	56	28	28	56	56	0	0	0	0	0	0	0	0	0	0	392	
						0	-	4	-	3	-	3	-	9	-	0	-	-	-	-	-	-	-	-	18	0
	Anegadde	RF	XXIII-33	230.15	140.53	2776	0	4511	0	1041	0	1388	0	1041	0	347	0	347	0	0	0	0	0	0	11451	
						12	-	80	-	51	-	134	-	166	-	82	-	115	-	0	-	0	-	0	640	5
	Balekoppa	RF	XXVII-16	43.71	27.82	552	0	552	0	690	0	345	0	69	0	0	0	0	0	69	0	0	0	0	2277	
						2		10		34		33		11		0		0		30		0		0	121	4
	Biliki	RF	XXIV-29	156.99	102.99	10414	0	10886	726	2540	1524	3556	508	4572	508	1270	762	1524							34762	
						46	0	192	13	125	75	342	49	727	81	302	181	506							2240	22
	Devarahonnekoppa	RF	XXIV-46	77.66	53.90	2660	133	1862	0	665	0	2394	0	1064	0	665	0	266	0	0	0	0	0	0	9576	
						12	-	33	-	33	-	230	-	169	-	158	-	-	-	-	-	-	-	-	635	12
	Doddabiligodu	RF	XXIV-49	83.77	83.77	2898	0	2691	0	2484	0	621	0	621	0	1449	0	207	0	0	0	0	0	207	11178	
						13	-	48	-	122	-	60	-	99	-	344	-	-	-	-	-	-	-	-	685	8
	Dumma	RF	XXIII-27	57.77	6.77	204	17	102	34	85	0	68	17	17	0	17	0	17	0	0	0	0	0	0	510	
						1	-	2	-	4	-	7	-	3	-	4	-	6	-	0	-	0	-	0	26	4
			XXIII-28	39.26	39.26	2522	0	2619	0	970	0	388	0	97	0	0	0	0	0	0	0	0	0	0	6596	
						11	-	46	-	48	-	37	-	15	-	0	-	0	-	0	-	0	-	0	158	4
	H.Hunasavalli	RF	XXIV-48	138.19	138.19	27870	0	67476	0	13202	0	2934	0	3540	0	0	0	1467	0	0	0	0	0	0	116489	
						123	-	1193	-	648	-	282	-	563	-	0	-	487	-	0	-	0	-	0	3296	24
	H. Kalkoppa	RF	XXIV-38	25.32	25.32	126	4473	63	252	315	63	126	126	126	63	0	0	0	0	0	0	0	0	0	756	
						1	35	1	-	15	-	12	-	20	-	0	-	-	-	-	-	-	-	-	49	2
	Halugudde	RF	XXIV-26	71.61	44.61	1320	0	1540	0	1430	0	550	0	220	0	0	0	220	0	110	0	0	0	0	5390	
						6		27		70		53		35		0		73		49		0		0	313	7
			XXIV-27	199.85	173.18	10272	0	11128	0	856	0	3852	0	428	0	1712	0	0	0	0	0	428	0	0	28676	
						45		197		42		371		68		407		0		0		243		0	1373	8
	Harathalu	RF	XXIV-30	100.00	16.00	0	0	13	0	104	0	234	0	208	0	234	0	117	0	0	0	13	0	0	923	
						0	-	0	-	5	-	23	-	33	-	56	-	-	-	-	-	-	-	-	117	7
			XXIV-31	124.17	103.42	640	0	4608	0	1024	0	2432	0	640	0	768	0	384	0	0	0	0	0	0	10496	
						3	-	81	-	50	-	234	-	102	-	182	-	127	-	-	-	-	-	-	780	8
	Hilagodu	RF	XIII-26	110.52	63.78	316	711	553	869	553	316	790	79	79	0	395	0	158	0	79	0	79	0	0	3002	
						1	-	10	-	27	-	76	-	13	-	94	-	52	-	35	-	45	-	0	353	6
	Hiriyogi	RF	XXIV-39	31.77	27.34	340	0	136	68	0	68	136	136	68	0	68	0	0	0	68	0	0	0	0	816	
						2	0	2	-	0	-	13	-	11	-	16	-	-	-	-	-	-	-	-	44	2
	Hosakesare	RF	XXIV-35	133.28	112.17	4865	0	2919	0	6672	0	2919	0	1668	0	1668	0	0	0	0	0	0	0	0	20711	
						21	-	52	-	328	-	281	-	265	-	396	-	0	-	0	-	0	-	0	1343	12
	K.Hunasavalli	RF	XXIV-32	58.66	6.66	224	32	368	32	128	0	96	768	144	0	176	0	96	0	16	0	32	0	0	1280	
						1		7		6		9		23		42		32		7		18		0	145	22

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			XXIV-33	208.12	84.16	416	208	1040	1040	1664	416	2704	0	1872	208	208	0	416	0	416	0	208	0	0	8944	
						2		18		82		260		298		49		138		184		118		0	1149	14
	Kadasuru	RF	XXIII-19	304.02	241.58	41790	0	20895	0	597	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63282	
						185	-	369	-	29	-	0	-	0	-	0	-	0	-	0	-	0	-	0	583	2
	Kalashettikoppa	RF	XXIV-18	24.28	24.28	2160	0	1620	0	300	0	480	0	120	0	180	0	0	0	0	0	0	0	0	4860	
						10	-	29	-	15	-	46	-	19	-	43	-	0	-	0	-	0	-	0	161	7
	Kanabanduru	RF	XXIV-25	378.39	362.89	12928	0	12928	0	12928	0	12928	0	8888	0	4040	0	1616	0	808	0	1616	0	808	69488	
						57	-	228	-	635	-	1244	-	1414	-	960	-	536	-	357	-	917	-	514	6863	19
	Karakki	RF	XXIV-34	98.23	98.23	9963	-	7047	-	5832	-	3888	-	2673	0	729	0	0	0	0	0	0	0	0	30132	
						44	-	125	-	286	-	374	-	425	-	-	-	-	-	-	-	-	-	-	1254	13
	Shuntikoppa	RF	XXIV-37	160.84	160.84	495	1584	1188	2376	792	396	396	891	1287	198	198	198	198	0	198	99	0	0	0	4752	
						2	12	21	-	39	-	38	-	205	-	47	-	66	-	87	-	0	-	0	505	3
	Kodur	RF	XXIV-23	123.75	93.75	2552	-	6032	-	1392	-	2088	-	1624	696	696	-	-	232	464	-	232	-	-	15080	
						11	-	107	-	68	-	201	-	258	111	165	-	-	77	205	-	132	-	-	1148	12
	Koduru Yalagallu	RF	XXIV-24	124.87	124.87	9270	0	16995	0	4944	0	2490	927	2163	618	2472	0	927	309	618	0	0	0	309	40188	
						41	0	300	0	243	0	240	89	344	98	587	0	308	103	273	0	0	0	197	2532	20
	L.Guddekoppa	RF	XXIII-30	118.30	65.26	6399	0	2106	0	324	0	567	0	81	0	162	0	162	0	0	0	0	0	81	9882	
						28	-	37	-	16	-	55	-	13	-	38	-	54	-	0	-	0	-	52	293	4
	M.Guddekoppa	RF	XXIII-24	54.03	49.03	2867	0	1708	0	1098	0	1220	0	183	0	0	0	0	0	0	0	0	0	0	7076	
						13	-	30	-	54	-	117	-	29	-	-	-	-	-	-	-	-	-	-	243	5
	Majavana	RF	XXIV-21	154.31	58.31	5760	0	1872	0	2736	0	1728	0	288	0	144	0	0	0	0	0	0	0	0	12528	
						25	-	33	-	134	-	166	-	46	-	34	-	-	-	-	-	-	-	-	439	8
	Maruthipura	RF	XXVI-32	215.63	215.63	23985	0	28249	0	17056	0	11726	0	4264	0	1066	0	0	0	533	0	0	0	533	87412	
						106	-	499	-	837	-	1128	-	678	-	253	-	0	-	236	-	0	-	339	4077	19
	Mumbharu	RF	XXIII-21	38.19	3.19	440	0	432	0	232	0	104	0	8	0	0	0	0	0	0	0	0	0	0	1216	
						2	-	8	-	11	-	10	-	1	-	-	-	-	-	-	-	-	-	-	32	10
			XXIII-22	97.08	0.53	27	-	20	-	12	-	7	-	12	-	2	-	5	-	-	-	-	-	-	85	
						0	-	0	-	1	-	1	-	2	-	0	-	2	-		-	-	-	-	6	11
			XXIII-23	110.30	5.30	377	0	793	0	403	0	26	0	26	0	26	0	0	0	0	0	0	0	0	1651	
						2	-	14	-	20	-	3	-	4	-	6	-	-	-	-	-	-	-	-	48	9
	Nagarahalli	RF	XXIV-45	68.99	26.71	1320	66	1056	66	132	66	330	66	132	0	66	0	66	0	132	0	0	0	0	3234	
						6	-	19	-	6	-	32	-	21	-	16	-	-	-	-	-	-	-	-	99	4
	Nellundi	RF	XXIII-29	67.56	63.97	237	0	2291	0	1422	0	1185	0	158	0	395	0	158	0	0	0	0	0	0	5846	
						1	-	40	-	70	-	114	-	25	-	94	-	52	-	0	-	0	-	0	397	6
	Punaje	RF	XXIV-53	105.54	79.54	7154	0	3528	0	2156	0	1372	0	1274	0	980	0	98	0	294	0	0	0	0	16856	
						32	-	62	-	106	-	132	-	203	-	233	-	-	-	-	-	-	-	-	767	10
			XXIV-54	316.25	146.87	4887	0	7421	0	5611	0	4344	0	2715	0	2534	0	362	0	724	0	0	0	0	28598	
						22	-	131	-	275	-	418	-	432	-	602	-	-	-	-	-	-	-	-	1880	13
			XXIV-55	173.95	173.95	8815	0	10535	0	5160	0	5590	0	2365	0	1290	0	645	0	215	0	215	0	430	35260	
						39	-	186	-	253	-	538	-	376	-	307	-	214	-	95	-	122	-	274	2404	14
	Salageri	RF	XXVII-17	50.38	24.24	1380	0	1320	0	900	0	900	0	120	0	0	0	0	0	0	0	0	0	0	4620	
						6		23		44		87		19		0		0		0		0		0	179	7
	Shakavalli	RF	XXIV-41	94.64	3.57	117	27	63	0	27	9	9	0	9	0	36	9	0	0	0	0	0	0	0	261	
						1	0	1	-	1	-	1	-	1	-	9	-	-	-	-	-	-	-	-	14	4
	Togeri	RF	XXVII-18	280.09	169.95	9660	0	6300	0	1680	0	1260	0	420	0	420	0	840	0	0	0	0	0	0	20580	
						43		111		82		121		67		100		279		0		0		0	803	5
			XXVII-19	166.05	89.92	0	0	444	0	444	0	444	0	444	0	444	0	666	0	444	0	222	0	0	3552	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						0		8		22		43		71		106		221		196		126		0	792	9
	Varakodu	RF	XXIII-20	244.46	52.46	260	0	780	0	1560	0	910	0	1170	0	390	0	390	0	130	0	130	0	260	5980	
						1		14		77		88		186		93		129		57		74		165	884	17
	Yalagallu,Kunuru	RF	XXIV-58	82.15	3.33	16	48	64	0	32	0	48	0	16	0	0	0	0	0	0	0	0	0	0	176	
						0	-	1	-	2	-	5	-	3	-	0	-	-	-	-	-	-	-	-	10	3
			XXIV-59	63.66	0.66	128	4	76	2	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	210	
						1	-	1	-	0	-	0	-	0	-	0	-	-	-	-	-	-	-	-	2	3
e)	**Kargal**																									
	Attigodu	SF	XIX-1	211.35	199.35	3444	0	12300	0	9840	0	6396	0	3198	0	984	0	492	0	0	0	0	0	0	36654	
						15		217		483		615		509		234		163		0		0		0	2237	11
			XIX-2	294.64	249.32	7700	0	36036	0	29260	0	6468	0	2464	0	308	0	924	0	0	0	0	0	0	83160	
						34		637		1436		622		392		73		307		0					3502	14
			XIX-3	257.66	224.27	21329	0	40442	0	19944	0	7202	0	554	0	2216	0	554	0	277	0	0	0	0	92518	
						94		715		979		693		88		527		184		122					3402	15
	Channagonda	SF	XIX-12	340.76	339.05	62850	0	94694	0	43576	0	21788	0	10894	0	7542	0	3352	0	0	0	0	0	0	244696	
						278		1674		2139		2097		1733		1792		1112		0					10824	32
			XIX-13	312.72	298.56	26937	0	48339	0	27675	0	15129	0	5535	0	2583	0	738	0	0	0	0	0	0	126936	
						119		854		1359		1456		880		614		245		0					5527	19
			XIX-14	480.85	479.01	16590	0	59250	0	45820	0	17775	0	5530	0	2765	0	1580	0	0	0	0	0	0	149310	
						73		1047		2249		1710		880		657		524		0					7141	15
			XIX-15	330.34	312.06	65620	0	37828	0	16212	0	20458	0	5790	0	4632	0	4246	0	1930	0	1544	0	3860	162120	
						290		669		796		1969		921		1101		1409		853		876		2456	11339	36
			XIX-16	280.45	253.25	56966	0	34430	0	10642	0	9390	0	5008	0	2504	0	1252	0	0	0	626	0	1878	122696	
						252		609		522		904		797		595		416		0		355		1195	5643	22
			XIX-17	275.18	246.00	49552	0	23712	0	12768	0	9120	0	2432	0	2128	0	3344	0	608	0	304	0	3648	107616	
						219		419		627		878		387		506		1110		269		173		2321	6907	28
			XIX-18	246.47	233.07	43488	0	34272	0	14112	0	11808	0	2608	0	3280	0	1824	0	1040	0	208	0	2976	115616	
						192		606		693		1136		415		779		605		460		118		1893	6897	30
	Govardhanagiri	SF	XX-1	594.56	594.56	177135	0	135240	0	30135	0	20580	0	8820	0	13965	0	6615	0	8820	0	735	0	735	402780	
						783	-	2390	-	1479	-	1980	-	1403	-	3318	-	2195	-	3897	-	417	-	468	18331	31
			XX-2	164.47	164.47	69629	-	64148	-	19285	-	8323	-	4669	-	3654	-	1827	-	609	-	203	-	-	172347	
						308	-	1134	-	947	-	801	-	743	-	868	-	606	-	269	-	115	-	-	5791	35
			XX-3	571.87	545.25	186698	0	153672	0	65378	0	53246	0	24938	0	15502	0	8762	0	6740	0	1348	0	0	516284	
						825	-	2716	-	3210	-	5124	-	3967	-	3683	-	2908	-	2978	-	765		-	26175	48
			XX-4	535.2	535.20	291501	-	165250	-	81964	-	42965	-	29084	-	31067	-	7932	-	5288	-	-	-	-	655051	
						1288	-	2921	-	4024	-	4134	-	4626	-	7382	-	2632	-	2336	-	-	-	-	29344	55
			XX-5	395.85	395.85	57702	-	65526	-	28362	-	22983	-	16137	-	5379	-	4401	-	978	-	-	-	-	201468	
						255	-	1158	-	1392	-	2212	-	2567	-	1278	-	1461	-	432	-	-	-	-	10755	27
			XX-6	313.66	278.95	116955	0	73485	0	24840	0	8970	0	4140	0	4485	0	1380	0	345	0	690	0	0	235290	
						517	-	1299	-	1219	-	863	-	659	-	1066	-	458	-	152	-	-	-	-	6233	22
			XX-7	404.32	404.32	112000	0	68000	0	34500	0	24000	0	11500	0	10000	0	3000	0	500	0	500	0	0	264000	
						495	-	1202	-	1694	-	2309	-	1829	-	2376	-	996	-	221	-	284	-	-	11405	28
			XX-8	493.56	478.88	95312	-	76368	-	50320	-	29600	-	16576	-	4736	-	4736	-	592	-	-	-	-	278240	
						421	-	1350	-	2470	-	2848	-	2637	-	1125	-	1572	-	262	-	-	-	-	12685	26
			XX-9	517.33	472.52	58984	0	61904	0	35040	0	23360	0	10512	0	6424	0	2336	0	584	0	0	0	0	199144	
						261	-	1094	-	1720	-	2248	-	1672	-	1526	-	775	-	258	-		-	-	9555	20
			XX-10	443.34	443.34	104668	0	72884	0	31784	0	16988	0	8768	0	4932	0	1096	0	0	0	0	0	0	241120	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						462	-	1288	-	1560	-	1635	-	1395	-	1172	-	364	-	-	-	-	-	-	7876	18
			XX-11	486.91	484.17	99268	-	68770	-	40664	-	32890	-	8970	-	4186	-	598	-	598	-	598	-	2392	258934	
						439	-	1215	-	1996	-	3165	-	1427	-	995	-	198	-	264	-	-	-	-	9699	20
			XX-12	428.47	427.85	23276	-	27508	-	21160	-	12167	-	6877	-	8464	-	3174	-	4232	-	5290	-	-	112148	
						103	-	486	-	1039	-	1171	-	1094	-	2011	-	1053	-	1870	-	3002	-	-	11829	28
			XX-13	266.38	222.64	275	-	9350	-	17325	-	12375	-	6600	-	4400	-	4400	-	1100	-	1375	-	1375	58575	
						1	-	165	-	851	-	1191	-	1050	-	1046	-	1460	-	486	-	780	-	875	7905	36
			XX-14	596.14	530.52	-	-	15720	-	36680	-	30785	-	9825	-	7205	-	3275	-	655	-	-	-	-	104145	
						-	-	278	-	1801	-	2962	-	1563	-	1712	-	1087	-	289	-	-	-	-	9692	18
			XX-15	347.86	312.15	0	0	1158	0	8106	0	9650	0	5790	0	6562	0	6562	0	5018	0	2316	0	1930	47092	
						-	-	20	-	398	-	929	-	921	-	1559	-	2178	-	2217	-	1314	-	1228	10764	34
			XX-16	277.15	250.71	0	0	2790	0	6200	0	6820	0	7440	0	6510	0	3720	0	5580	0	3100	0	1240	43400	
						-	-	49	-	304	-	656	-	1183	-	1547	-	1235	-	2465	-	1759	-	789	9989	40
			XX-17	521.66	498.66	0	0	0	0	9240	0	16632	0	20944	0	17864	0	8008	0	6776	0	3080	1897280	616	83160	
						-	-	-	-	454	-	1600	-	3331	-	4245	-	2658	-	2994	-	1748	-	392	17422	35
			XX-18	361.47	326.52	85436	0	47151	0	27404	0	22165	0	16523	0	7657	0	2015	0	806	0	0	0	0	209157	
						377	-	833	-	1345	-	2133	-	2628	-	1819	-	669	-	356	-	-	-	-	10161	31
			XX-19	405.28	391.59	81796	0	91960	0	35332	0	35816	0	17424	0	6292	0	2420	0	0	0	0	0	0	271040	
						361	-	1625	-	1735	-	3446	-	2772	-	1495	-	803	-	-	-	-	-	-	12237	31
			XX-20	354.23	354.23	13140	0	17520	0	17520	0	12264	0	3504	0	2190	0	2190	0	0	0	0	0	0	68328	
						58	-	310	-	860	-	1180	-	557	-	520	-	727	-	-	-	-	-	-	4212	12
			XX-21	273.35	201.12	34472	0	34720	0	27776	0	15872	0	3720	0	4216	0	992	0	0	0	0	0	0	121768	
						152	-	614	-	1364	-	1527	-	592	-	1002	-	329	-	-	-	-	-	-	5580	28
			XX-22	553.73	467.79	28322	0	46818	0	24854	0	15028	0	4046	0	2890	0	578	0	0	0	0	0	0	122536	
						125	-	827	-	1220	-	1446	-	644	-	687	-	192	-	-	-	-	-	-	5141	11
			XX-23	255.41	214.67	9540	0	30210	0	21200	0	6625	0	4770	0	3180	0	2120	0	530	0	265	0	0	78440	
						42	-	534	-	1041	-	637	-	759	-	756	-	704	-	234	-	150	-	-	4857	23
			XX-24	322.47	322.47	10746	0	6368	0	8756	0	4378	0	1592	398	398	398	398	0	0	0	0	0	0	32636	
						47	-	113	-	430	-	421	-	253	-	95	-	132	-	-	-	-	-	-	1491	5
			XX-25	487.26	481.92	156485	0	105315	0	66640	0	39270	0	24395	0	28560	0	15470	0	7735	0	3570	0	595	448035	
						691	-	1861	-	3272	-	3779	-	3880	-	6786	-	5134	-	3418	-	-	-	-	28821	60
			XX-26	305.44	293.68	53361	0	56991	0	22143	0	25047	0	17061	0	17424	0	10527	0	5445	0	3630	0	3267	214896	
						236	-	1007	-	1087	-	2410	-	2714	-	4140	-	3494	-	2406	-	2060	-	2079	21632	74
			XX-27	301.09	294.37	55692	0	32032	0	20384	0	18564	0	17472	0	17108	0	8008	0	6188	0	2548	0	728	178724	
						246	-	566	-	1001	-	1786	-	2779	-	4065	-	2658	-	2734	-	1446	-	463	17744	60
			XX-28	444.95	440.69	18150	-	25773	-	21054	-	6534	-	5445	-	3630	-	1452	-	0	-	-	-	-	82038	
						80	-	456	-	1034	-	629	-	866	-	863	-	482	-	-	-	-	-	-	4409	10
			XX-29	540.03	537.91	13290	-	20821	-	10632	-	7531	-	9746	-	4873	-	2215	-	-	-	-	-	-	69108	
						59	-	368	-	522	-	725	-	1550	-	1158	-	735	-	-	-	-	-	-	5117	10
			XX-30	416.31	416.31	10633	-	20923	-	16121	-	9261	-	4116	-	2058	-	1029	-	-	-	-	-	-	64141	
						47	-	370	-	791	-	891	-	655	-	489	-	341	-	-	-	-	-	-	3585	9
			XX-31	339.84	339.84	1400	-	11760	-	12600	-	14560	-	8680	-	5320	-	2520	-	1400	-	560	-	-	58800	
						6	-	208	-	619	-	1401	-	1381	-	1264	-	836	-	619	-	318	-	-	6651	20
			XX-32	161.61	156.81	970		9506		5044		3686		1940		1358		1164							23668	
						4	-	168	-	248	-	355	-	309	-	323	-	386	-	-	-	-	-	-	1792	11
			XX-33	384.38	383.83	21804	0	30336	0	20856	0	11850	0	474	0	2844	0	1896	0	0	0	0	0	0	90060	
						96	-	536	-	1024	-	1140	-	75	-	676	-	629	-	-	-	-	-	-	4177	11

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			XX-34	208.53	208.53	1032	0	12126	0	6450	0	4902	0	3096	0	1806	0	1548	0	0	0	0	0	0	30960	
						5	-	214	-	317	-	472	-	492	-	429	-	514	-	-	-	-	-	-	2443	12
	Joga "B" Block	SF	XVIII-7	197.13	197.13	43432	0	27572	0	7564	0	10004	0	2440	0	1464	0	1220	0	1220	0	488	0	488	95892	
						192		487		371		963		388		348		405		539		277		310	4281	22
			XVIII-8	331.85	283.23	31150	0	30100	0	8050	0	13650	0	2800	0	3500	0	3850	0	2100	0	350	0	2450	98000	
						138		532		395		1313		445		832		1278		928		199		1559	7618	27
			XVIII-9	354.81	316.92	9800	0	14112	0	9800	0	4312	0	784	0	1960	0	1176	0	392	0	1176	0	784	44296	
						43		249		481		415		125		466		390		173		667		499	3509	11
			XVIII-10	377.35	307.35	63840	0	44840	0	12920	0	11400	0	8740	0	3040	0	1900	0	1140	0	760	0	1520	150100	
						282		792		634		1097		1390		722		631		504		431		967	7451	24
			XVIII-11	400.29	400.29	88605	0	84645	0	23070	0	22770	0	18810	0	16830	0	11385	0	5940	0	2970	0	5445	280470	
						391		1496		1133		2191		2992		3999		3778		2625		1686		3464	23755	59
			XVIII-12	401.38	400.78	46035	0	27225	0	6930	0	4455	0	10395	0	3960	0	6930	0	2475	0	1485	0	2475	112365	
						203		481		340		429		1653		941		2300		1094		843		1575	9859	25
			XVIII-13	318.42	314.81	8947	0	34621	0	34621	0	21006	0	6224	0	2334	0	0	0	0	0	0	0	0	107753	
						40		612		1700		2021		990		555		0		0		0		0	5917	19
			XVIII-14	364.1	359.09	7992	0	36852	0	35964	0	15984	0	9768	0	1776	0	0	0	0	0	0	0	0	108336	
						35		651		1766		1538		1554		422		0		0		0		0	5966	17
			XVIII-15	351.39	307.54	7980	0	33060	0	20900	0	11780	0	3420	0	1520	0	380	0	0	0	0	0	0	79040	
						35		584		1026		1134		544		361		126		0		0		0	3810	12
			XVIII-16	136.07	120.33	4023	0	14155	0	10430	0	5364	0	1639	0	298	0	0	0	0	0	0	0	0	35909	
						18		250		512		516		261		71		0		0		0		0	1628	14
			XVIII-17	335.91	332.77	1644	0	11508	0	11508	0	4932	0	822	0	411	0	822	0	0	0	0	0	0	31647	
						7		203		565		475		131		98		273		0		0		0	1751	5
	Karani	SF	XXI-1	350.95	313.99	16684	0	27548	0	23668	0	12804	0	9700	0	2716	0	2328	0	776	0	0	0	0	96224	
						74	-	487	-	1162	-	1232	-	1543	-	645	-	773	-	343	-	-	-	-	6258	20
			XXI-2	345.1	337.32	47538	-	54627	-	32109	-	21267	-	11676	-	4587	-	417	-	1251	-	-	-	-	173472	
						210	-	965	-	1576	-	2046	-	1857	-	1090	-	138	-	553	-	-	-	-	8437	25
			XXI-3	344.44	320.50	46332	0	40392	0	18612	0	16632	0	9108	0	3168	0	1980	0	0	0	0	0	0	136224	
						364	-	1269	-	1316	-	2090	-	1789	-	896	-	762	-	-	-	-	-	-	8486	26
			XXI-4	197.54	168.12	18304	0	12064	0	7280	0	5616	0	3328	0	2496	0	624	0	2288	0	624	0	416	53040	
						81	-	213	-	357	-	540	-	529	-	593	-	207	-	1011	-	354	-	265	4151	25
			XXI-5	321.28	317.44	158760	0	126616	0	59976	0	43512	0	18032	0	7840	0	4312	0	1568	0	0	0	0	420616	
						701	-	2238	-	2944	-	4187	-	2868	-	1863	-	1431	-	693	-	-	-	-	16926	53
			XXI-6	491.87	457.23	46330	0	31075	0	19210	0	25990	0	15255	0	4520	0	2825	0	0	0	0	0	0	145205	
						205	-	549	-	943	-	2501	-	2427	-	1074	-	938	-	-	-	-	-	-	8636	19
			XXI-7	283.19	264.32	24525	0	26814	0	17658	0	7848	0	3270	0	1635	0	0	0	0	0	0	0	0	81750	
						108	-	474	-	867	-	755	-	520	-	388	-	-	-	-	-	-	-	-	3113	12
			XXI-8	271.52	259.39	26240	0	23360	0	13760	0	9920	0	4800	0	2240	0	1280	0	640	0	0	0	0	82240	
						116	-	413	-	676	-	955	-	764	-	532	-	425	-	283	-	-	-	-	4162	16
			XXI-9	221.46	193.90	14400	-	16080	-	10320	-	7200	-	1680	-	2880	-	1440	-	240	-	-	-	-	54240	
						64	-	284	-	507	-	693	-	267	-	684	-	478	-	106	-	-	-	-	3083	16
			XXI-10	341.99	340.52	19366	0	26102	0	18945	0	13893	0	12630	0	5052	0	4631	0	1684	0	1263	0	0	103566	
						86	-	461	-	930	-	1337	-	2009	-	1200	-	1537	-	744	-	717	-	-	9021	26
			XXI-11	301.95	278.68	6192	0	16168	0	18920	0	13760	0	10664	0	4472	0	5160	0	3440	0	0	0	0	78776	
						27	-	286	-	929	-	1324	-	1696	-	1063	-	1712	-	1520	-	-	-	-	8557	31
			XXI-12	346.04	335.04	91080	0	81972	0	26910	0	24840	0	25254	0	18216	0	19044	0	8694	0	2070	0	1656	299736	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						402	-	1449	-	1321	-	2390	-	4017	-	4328	-	6320	-	3841	-	1175	-	1054	26298	78
			XXI-13	214.38	214.38	55120	0	81355	0	15370	0	13250	0	11660	0	11925	0	9010	0	1590	0	0	0	0	199280	
						244	-	1438	-	755	-	1275	-	1855	-	2834	-	2990	-	703	-	-	-	-	12092	56
			XXI-14	345.63	344.58	33654	0	46008	0	26838	0	16188	0	8520	0	8520	0	11076	0	1704	0	3834	0	2556	158898	
						149	-	813	-	1318	-	1558	-	1355	-	2024	-	3676	-	753	-	2176	-	1626	15448	45
			XXI-15	357.14	328.46	65366	0	71456	0	56840	0	26390	0	23548	0	6902	0	8120	0	1218	0	0	0	0	259840	
						289	-	1263	-	2790	-	2539	-	3746	-	1640	-	2695	-	538	-	-	-	-	15500	47
			XXI-16	248.67	218.74	56970	0	46440	0	22140	0	12150	0	10260	0	4050	0	3780	0	1350	0	1620	0	0	158760	
						252	-	821	-	1087	-	1169	-	1632	-	962	-	1254	-	596	-	919	-	-	8693	40
			XXI-17	300.83	251.65	61267	0	53181	0	23947	0	17416	0	13373	0	9330	0	6220	0	2799	0	0	0	0	187533	
						271	-	940	-	1176	-	1676	-	2127	-	2217	-	2064	-	1237	-	-	-	-	11707	47
	Kargal	SF	XVIII-1	200.71	188.71	18174	0	15378	0	13048	0	7456	0	1398	0	1165	0	0	0	0	0	0	0	0	56619	
						80		272		641		717		222		277		0		0		0		0	2209	12
			XVIII-2	231.34	199.34	11808	0	7626	0	5658	0	3690	0	1230	0	2214	0	738	0	492	0	0	0	0	33456	
						52		135		278		355		196		526		245		217		0		0	2004	10
	Kudruru - I	SF	XXII-1	337.75	316.47	72726	0	55913	0	19941	0	17986	0	19941	0	10557	0	10166	0	6256	0	391	0	0	213877	
						321		988		979		1731		3172		2508		3374		2764		222		0	16059	51
			XXII-2	329.42	326.45	53196	0	48360	0	33852	0	16120	0	15314	0	6851	0	4433	0	1612	0	0	0	2015	181753	
						235		855		1662		1551		2436		1628		1471		712		0		1282	11832	36
			XXII-3	334.92	185.13	32060	0	40991	0	16259	0	8702	0	4122	0	5725	0	1603	0	1832	0	1145	0	458	112897	
						142		724		798		837		656		1360		532		809		650		291	6800	37
			XXII-6	133.21	132.91	43624	0	29356	0	12300	0	10004	0	7052	0	5576	0	2788	0	1640	0	1312	0	820	114472	
						193		519		604		963		1122		1325		925		725		745		522	7641	57
			XXII-7	196.7	190.89	67968	0	38468	0	10856	0	10384	0	9912	0	4248	0	3540	0	708	0	236	0	944	147264	
						300		680		533		999		1577		1009		1175		313		134		601	7321	38
	Kudruru - II	SF	XXII-8	266.87	257.08	151368	0	76956	0	25440	0	15582	0	9858	0	7950	0	4770	0	1590	0	1272	0	3816	298602	
						669		1360		1249		1499		1568		1889		1583		703		722		2428	13670	53
			XXII-9	284.97	284.97	114400	0	62656	0	26400	0	12320	0	9856	0	5632	0	2464	0	1056	0	1056	0	2464	238304	
						505		1107		1296		1185		1568		1338		818		467		599		1568	10452	37
			XXII-12	273.9	266.16	5264	0	16779	0	19082	0	11844	0	8883	0	3619	0	987	0	0	0	0	0	0	66458	
						23		297		937		1140		1413		860		328		0		0		0	4997	19
			XXII-13	222.55	220.83	1911	0	15561	0	28392	0	15288	0	8463	0	4914	0	0	0	273	0	0	0	0	74802	
						8		275		1394		1471		1346		1168		0		121		0		0	5783	26
	Muppani - A	SF	XIX-4	275.92	275.80	33759	0	39215	0	14322	0	18755	0	9207	0	5456	0	3069	0	682	0	0	0	1364	125829	
						149		693		703		1805		1464		1296		1019		301		0		868	8299	30
			XIX-5	303.79	300.24	50085	0	43036	0	15211	0	13356	0	5194	0	3339	0	1855	0	1113	0	742	0	742	134673	
						221		761		747		1285		826		793		616		492		421		472	6634	22
			XIX-6	229.85	229.85	45724	0	36352	0	23004	0	15052	0	7952	0	3124	0	2556	0	568	0	568	0	852	135752	
						202		642		1129		1448		1265		742		848		251		322		542	7393	32
			XIX-7	152.21	152.21	47940	0	29140	0	15792	0	3760	0	2632	0	2444	0	940	0	1128	0	188	0	188	104152	
						212		515		775		362		419		581		312		498		107		120	3900	26
	Muppani - B	SF	XIX-8	137.28	137.28	13430	0	15130	0	7990	0	3570	0	1190	0	510	0	340	0	170	0	0	0	680	43010	
						59		267		392		344		189		121		113		75		0		433	1994	15
			XIX-9	206.96	206.01	7635	0	15270	0	14761	0	13234	0	6617	0	4072	0	509	0	1018	0	509	0	1018	64643	
						34		270		725		1273		1053		968		169		450		289		648	5877	29
			XIX-10	231.46	231.46	28600	0	21736	0	22880	0	24024	0	9152	0	7436	0	0	0	0	0	0	0	0	113828	
						126		384		1123		2312		1456		1767		0		0		0		0	7168	31

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
	Talakalale	SF	XVIII-3	264.60	140.62	6612	0	13920	0	10614	0	4872	0	2958	0	522	0	174	0	174	0	0	0	0	39846	
						29		246		521		469		471		124		58		77		0		0	1994	14
			XVIII-4	348.22	334.83	44712	0	55062	0	24426	0	9108	0	1656	0	1242	0	414	0	414	0	0	0	0	137034	
						198		973		1199		876		263		295		137		183		0		0	4125	12
			XVIII-5	203.37	189.26	12870	0	20592	0	12168	0	5616	0	1404	0	468	0	234	0	234	0	0	0	0	53586	
						57		364		597		540		223		111		78		103		0		0	2074	11
	Talakalale	RF	XVIII-20	236.70	236.70	53652	5523	51285	1578	35505	789	26826	0	10257	0	11046	0	3156	0	3156	0	789	0	0	195672	
						237		906		1743		2581		2625		1047		1394		448	0	0	0	0	10982	46
f)	**Nagara**																									
	Baise	SF	XXVI-6	180.64	118.64	588	-	3528	-	6174	-	3675	-	3822	-	1323	-	441	-	0	-	294	-	294	20139	
						3		62		303		354		608		314		146		0		167		187	2144	18
			XXVI-7	130.33	100.33	1488	-	3100	-	2728	-	3100	-	1736	-	1116	-	372	-	248	-	124	-	248	14260	
						7		55		134		298		276		265		123		110		70		158	1496	15
	Chakra	SF	XXV-12	200.45	154.45	19864	0	25976	0	16235	0	7258	0	4011	0	1910	0	1337	0	191	0	191	0	191	77164	
						88	-	459	-	797	-	698	-	638	-	454	-	444	-	84	-	108	-	122	3892	25
			XXV-13	181.86	175.86	49910	0	32333	0	15190	0	5859	0	1302	0	866	0	864	0	0	0	0	0	0	106324	
						221	-	571	-	746	-	564	-	207	-	206	-	287	-	-	-	-	-	-	2801	16
			XXV-14	224.23	217.23	19832	-	16884	-	13400	-	7772	-	2412	-	536	-	536	-	-	-	-	-	-	61372	
						88	-	298	-	658	-	748	-	384	-	127	-	178	-	-	-	-	-	-	2481	11
			XXV-15	163.19	156.19	20651	0	31073	0	9264	0	5211	0	1544	0	1737	0	1158	0	386	0	0	0	0	71024	
						91	-	549	-	455	-	501	-	246	-	413	-	384	-	171	-	-	-	-	2810	18
	Devagange	SF	XXVI-5	377.92	377.92	2802	-	11889	-	12142	-	6538	-	8873	-	7472	-	4203	-	6538	-	4670	-	9807	74934	
						12		210		596		629		1411		1775		1395		2889		2650		6240	17808	47
	Honnarmagane	SF	XXV-1	177.51	177.51	8391	0	4818	0	5775	0	4115	0	2386	0	1533	0	415	0	219	0	219	0	0	27871	
						37	-	85	-	284	-	396	-	380	-	364	-	138	-	97	-	124	-	-	1904	11
			XXV-2	532.5	520.50	19902	-	15408	-	17334	-	8346	-	5136	-	3210	-	3852	-	642	-	-	-	-	73830	
						88	-	272	-	851	-	803	-	817	-	763	-	1278	-	284	-	-	-	-	5156	10
	Hulikal	SF	XXVIII-2	284.59	275.59	74412	-	104728	-	46852	-	24804	-	0	-	0	-	2756	-	0	-	0	-	0	253552	
						329		1851		2300		2387		0		0		915		0		0		0	7781	28
	Kavaledurga	SF	XXVII-6	235.30	222.30	37663	0	22000	0	14025	0	9625	0	4125	0	3025	0	1100	0	2475	0	1100	825	4400	99538	
						166		389		689		926		656		719		365		1094		624	468	2800	8427	38
			XXVII-7	249.53	176.53	45126	0	28340	0	12862	0	10246	0	5668	0	1962	0	1744	0	1962	0	436	0	2616	110962	
						199		501		631		986		902		466		579		867		247		1664	7043	40
			XXVII-8	341.99	328.99	97846	0	43848	0	15834	0	21112	0	5684	0	4466	0	3248	0	3248	0	812	0	3654	199752	
						432		775		777		2031		904		1061		1078		1435		461		2325	11280	34
			XXVII-9	254.67	249.67	66836	0	33572	0	10472	0	12320	0	5852	0	4004	0	2772	0	1232	0	924	0	2464	140448	
						295		593		514		1185		931		951		920		544		524		1568	8027	32
			XXVII-10	261.31	248.31	91179	0	50041	0	19955	0	13508	0	6140	0	1535	0	1842	0	614	0	0	0	4605	189419	
						403		884		980		1300		977		365		611		271		0		2930	8721	35
			XXVII-11	221.3	221.30	70161	0	50778	0	18564	0	10101	0	9282	0	2184	0	4914	0	3003	0	1638	0	4914	175539	
						310		897		911		972		1476		519		1631		1327		930		3127	12100	55
			XXVII-12	174.27	170.27	42000	0	26670	0	10920	0	10920	0	3570	0	3570	0	2940	0	1200	0	1260	0	1260	104310	
						186		471		536		1051		568		848		976		530		715		802	6683	39
			XXVII-13	214.78	208.78	54438	0	53922	0	18060	0	13932	0	6450	0	6966	0	4902	0	258	0	516	0	1548	160992	
						241		953		887		1341		1026		1655		1627		114		293		985	9121	44
			XXVII-14	323.31	276.31	81499	0	78771	0	16709	0	15686	0	16709	0	11594	0	16027	0	5115	0	1023	0	4092	247225	
						360		1392		820		1509		2658		2755		5319		2260		581		2604	20258	73

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
			XXVII-15	213.27	213.27	43921	0	49707	0	18410	0	15517	0	9731	0	8416	0	3945	0	8153	0	2104	0	1578	161482	
						194		879		904		1493		1548		2000		1309		3602		1194		1004	14127	66
	Kilandur	SF	XXVI-8	176.52	176.52	42728	-	28122	-	15914	-	7848	-	2180	-	4360	-	1308	-	872	-	-	-	1962	105294	
						189		497		781		755		347		1036				385					3990	23
			XXVI-9	307.62	241.62	36179	0	49933	0	37076	0	12558	0	5083	0	2392	0	1495	0	299	0	897	0	598	146510	
						160		883		1820		1208		809		568		496		132		509		380	6966	29
			XXVI-10	349.62	296.62	83082	-	68076	-	42822	-	15372	-	8052	-	4026	-	1464	-	1830	-	1098	-	732	226554	
						367		1203		2102		1479		1281		957		486		809		623		116	9423	32
			XXVI-11	555.77	555.77	30915	-	61830	-	37785	-	13740	-	12366	-	3435	-	3435	-	5496	-	4122	-	6183	179307	
						137		1093		1855		1322		1967		816		1140		2428		2339		3934	17031	31
			XXVI-12	285.35	285.35	68835	0	56480	0	36712	0	13767	0	6001	0	2118	0	1059	0	706	0	353	0	0	186031	
						304		998		1802		1325		955		503		351		312		200			6751	24
			XXVI-13	283.65	283.65	0	0	11550	0	11200	0	8400	0	8050	0	4540	0	3150	0	0	0	0	0	1750	48640	
						0		204		550		808		1280		1079		1045		0		0		1113	6080	21
			XXVI-14	363.07	335.07	0	0	10350	0	9108	0	12420	0	12420	0	5796	0	9108	0	414	0	2070	0	3312	64998	
						0		183		447		1195		1976		1377		3023		183		1175		2107	11666	35
	Kodachadri	SF	XXV-4	206.03	202.36	12250	-	11250	-	9500	-	3750	-	3250	-	3000	-	1000	-	750	-	-	-	-	44750	
						54	-	199	-	466	-	361	-	517	-	713	-	332	-	331	-	-	-	-	2973	15
			XXV-5	187.5	150.21	3162	-	9114	-	4092	-	4650	-	2790	-	1860	-	1302	-	558	-	-	-	-	27528	
						14	-	161	-	201	-	447	-	444	-	442	-	432	-	247	-	-	-	-	2388	16
			XXV-6	214.17	152.48	6392	-	6956	-	3196	-	3948	-	2256	-	2444	-	940	-	752	-	188	-	-	27072	
						28	-	123	-	157	-	380	-	359	-	581	-	312	-	332	-	107	-	-	2378	16
			XXV-7	209.63	203.63	6804	-	9324	-	6048	-	6048	-	3780	-	4788	-	2772	-	1008	-	252	-	-	40824	
						30	-	165	-	297	-	582	-	601	-	1138	-	920	-	445	-	143	-	-	4321	21
			XXV-8	222.74	199.71	15561	-	20254	-	15314	-	4940	-	1482	-	494	-	1235	-	988	-	247	-	-	60515	
						69	-	358	-	752	-	475	-	236	-	117	-	410	-	437	-	140	-	-	2994	15
			XXV-9	232.23	206.23	4335	-	6630	-	6630	-	3825	-	2550	-	1020	-	255	-	-	-	-	-	-	25245	
						19	-	117	-	325	-	368	-	406	-	242	-	85	-	-	-	-	-	-	1562	8
			XXV-10	198.15	198.15	9310	-	11270	-	6370	-	3185	-	3185	-	1225	-	245	-	-	-	-	-	-	34790	
						41	-	199	-	313	-	306	-	507	-	291	-	81	-	-	-	-	-	-	1739	9
			XXV-11	180.75	176.75	2180	-	6976	-	11772	-	5014	-	5014	-	1744	-	1308	-	-	-	-	-	-	34008	
						10	-	123	-	578	-	482	-	798	-	414	-	434	-	-	-	-	-	-	2839	16
	Kodasi	SF	XXVII-3	466.27	424.27	116852	0	52924	0	28296	0	5764	0	3668	0	1048	0	0	0	0	0	0	0	0	208552	
						516		935		1389		555		583		249		0		0		0		0	4228	10
			XXVII-4	507.68	300.68	65296	0	47859	0	28567	0	18921	0	4081	0	3710	0	1113	0	1113	0	371	0	0	171031	
						289		846		1402		1821		649		882		369		492		211		0	6960	23
			XXVII-5	372.79	240.79	44847	0	34749	0	37719	0	15741	0	3861	0	2376	0	594	0	297	0	0	0	594	140778	
						198		614		1852		1515		614		565		197		131		0		378	6064	25
	Manibylu	SF	XXVIII-8	291.46	283.46	83300	0	91000	0	41300	0	17850	0	6650	0	3150	0	3500	0	700	0	2450	0	1050	250950	
						368		1608		2028		1718		1058		748		1162		309		1390		668	11057	39
			XXVIII-9	272.35	272.35	94752	0	73248	0	44016	0	15792	0	6720	0	5040	0	3360	0	3696	0	1008	0	672	248304	
						419		1295		2161		1520		1069		1198		1115		1633		572		428	11408	42
			XXVIII-10	288.23	272.23	62832	0	58464	0	33600	0	23520	0	12432	0	6720	0	1680	0	2352	0	672	0	0	202272	
						278		1033		1650		2263		1977		1597		558		1039		381		0	10776	40
	Mattilkai	SF	XXVI-1	135.1	40.52	0	0	300	0	800	0	1000	0	1200	0	1000	0	800	0	350	0	50	0	50	5550	
						0		5		39		96		191		238		265		155		28		8	1026	25
			XXVI-2	231.25	89.66	0	0	3774	0	2442	0	2997	0	4551	0	3219	0	2109	0	333	0	555	0	1110	21090	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						0		67		120		288		724		765		700		147		315		706	3832	43
			XXVI-3	199.56	120.34	298	0	1788	0	4917	0	2682	0	7897	0	2533	0	1788	0	745	0	745	0	1937	25330	
						1		32		241		258		1256		602		593		329		423		1232	4968	41
			XXVI-4	199.69	114.28	0	0	2961	0	4512	0	2538	0	3243	0	1269	0	1692	0	423	0	141	0	987	17766	
						0		52		222		244		516		302		562		187		80		628	2792	24
	Menasingudda	SF	XXV-3	160.91	160.27	3762	-	3366	-	2574	-	2178	-	1188	-	-	-	-	-	-	-	-	-	-	13068	
						17	-	59	-	126	-	210	-	189	-	-	-	-	-	-	-	-	-	-	601	4
	Varahi	SF	XXVIII-3	515.92	471.42	84852	0	70710	0	4714	0	37712	0	18856	0	9428	0	0	0	0	0	4714	0	0	230986	
						375		1250		231		3629		2999		2240		0		0		2675		0	13400	28
	Kabale	RF	XXVI-34	232.70	50.99	3465	0	2898	0	2079	0	693	0	189	0	126	0	126	0	0	0	63	0	0	9639	
						15		51		102		67		30		30		42		0		36		0	373	7
	Khyrgunda	RF	XXVII-25	329.09	294.09	6897	0	16698	0	3267	0	726	0	726	0	0	0	363	0	0	0	0	0	0	28677	
						30	-	295	-	160	-	70	-	115	-	0	-	120	-	0	-	0	-	0	792	3
	Kilandur	RF	XXVI-29	65.56	52.12	12513	0	11223	0	5160	0	1677	0	1161	0	129	0	129	0	387	0	258	0	0	32637	
						55		198		253		161		185		31		43		171		146		0	1244	24
	Magodu	RF	XXVI-30	52.61	52.61	4940	0	2210	0	1820	0	780	0	520	0	260	0	260	0	0	0	130	0	0	10920	
						22		39		89		75		83		62		86		0		74		0	530	10
	Mattikai	RF	XXVI-33	143.67	140.61	347	0	4511	694	15962	347	6593	0	8675	0	2082	0	694	0	0	0	347	0	0	39211	
						2	0	80	12	784	17	634	0	1380	0	495	0	230	0	0	0	197	0	0	3801	27
	Mudagoppa	RF	XXVI-31	366.20	197.52	4890	0	5542	0	2771	0	2119	0	326	0	489	0	0	0	0	0	163	0	326	16626	
						22		98		136		204		52		116		0		0		93		207	927	5
	Ryave	RF	XXVII-20	271.16	185.80	20839	0	35724	229	37098	229	6412	0	2061	0	1145	0	229	0	0	0	0	0	458	103966	
						92	0	631	4	1821	11	617	0	328	0	272	0	76	0	0	0	0	0	291	4129	22
			XXVII-21	259.46	174.11	6665	0	13545	0	18060	215	11180	0	5590	0	2580	0	1935	0	1505	0	0	0	860	61920	
						29	0	239	0	887	11	1076	0	889	0	613	0	642	0	665	0	0	0	547	5588	32
	Sulagodu	RF	XXIV-42	279.43	182.86	52555	457	36560	914	26506	457	10054	457	2742	0	5484	0	914	457	2285	0	457	0	2285	139842	
						232		646		1301		967		436		1303		303		1010		259		1454	7912	43
			XXIV-43	160.98	160.98	27522	1719	21774	0	14898	0	9168	0	4584	0	2865	0	1719	0	1719	0	1719	0	1719	87687	
						122		385		731		882		729		681		570		760		976		1094	6929	43
			XXIV-44	26.19	26.19	2620	0	3668	786	2620	524	262	0	1310	0	1310	0	0	0	524	0	524	0	262	13100	
						12		65		129		25		208		311		0		232		297		167	1445	55
	Yadooru	RF	XXIV-50	150.55	140.99	4667	-	4818	-	2710	-	2258	-	1957	-	151	-	753	-	0	-	0	-	0	17313	
						21		85		133		217		311		36		250		0		0		0	1053	7
g)	**Sagar**																									
	Avinahalli	SF	XVI-1	214.4	64.30	8268	0	3657	0	1272	0	954	0	1908	0	954	0	318	0	0	0	0	0	159	17490	
						37		65		62		92		303		227		106		0		0		101	992	15
	Bellenne	SF	XVII-4	287.70	281.60	4524	0	4524	0	3828	0	4524	0	2784	0	1044	0	348	0	0	0	348	0	0	21924	
						20	-	80	-	188	-	435	-	443	-	248	-	115	-	-	-	197	-	-	1727	6
			XVII-5	301.95	270.55	18036	0	19038	0	14028	0	10020	0	6346	0	1670	0	1336	0	2338	0	334	0	0	73146	
						80	-	336	-	689	-	964	-	1009	-	397	-	443	-	1033	-	190	-	-	5141	19
			XVII-6	220.55	215.55	9576	0	7448	0	9310	0	9842	0	4256	0	3458	0	1330	0	266	0	266	0	0	45752	
						42	-	132	-	457	-	947	-	677	-	822	-	441	-	118	-	151	-	-	3787	18
	Belandur	SF	XII-1(p)	158.92	116.92	3168	0	6048	0	3456	0	3312	0	1296	0	1296	0	864	0	576	0	288	0	144	20448	
						14		107		170		319		206		308		287		255		163		92	1920	16
			XII-2(p)	418.94	418.94	11396	0	11396	0	11396	0	19684	0	13986	0	8288	0	7770	0	1036	0	2072	0	2072	89096	
						50		201		559		1894		2225		1969		2579		458		1176		1318	12430	30
			XII-3(p)	420.83	260.83	26875	0	41925	0	22575	0	12470	0	11180	0	3225	0	1505	0	1505	0	215	0	0	121475	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						119		741		1108		1200		1778		766		499		665		122		0	6999	27
			XII-4(p)	342.47	255.47	15168	-	16432	-	14852	-	8216	-	4424	-	3476	-	1580	-	1264	-	632	-	-	66044	
						67		290		729		791		704		826		524		558		359			4848	19
			XII-5(p)	396.21	312.21	10808	0	13896	0	18528	0	12352	0	11194	0	3474	0	386	0	386	0	772	0	0	71796	
						48		246		910		1189		1781		825		128		171		438			5734	18
			XII-9(p)	75.00	75.00	4929	0	2511	0	1767	0	1302	0	465	0	93	0	93	0	0	0	0	0	93	11253	
						22		44		87		125		74		22		31		0				59	464	6
	Iduvani	SF	XVII-1	316.49	77.91	2592	0	1344	0	1248	0	960	0	1536	0	384	0	192	0	0	0	96	0	0	8352	
						11	-	24	-	61	-	92	-	244	-	91	-	64	-	-	-	54	-	-	643	8
			XVII-2	304.25	95.30	2832	0	2478	0	1062	0	2360	0	1534	0	472	0	1062	0	354	0	118	0	0	12272	
						13	-	44	-	52	-	227	-	244	-	112	-	352	-	-	-	67	-	-	1111	12
			XVII-3	328.76	284.44	16169	0	11248	0	12654	0	13357	0	9842	0	2812	0	2812	0	2109	0	0	0	0	71003	
						71	-	199	-	621	-	1285	-	1566	-	668	-	933	-	932	-	-	-	-	6275	22
	Kalkoppa	SF	XV-10	121.43	12.03	150	0	1110	0	630	0	390	0	270	0	30	0	0	0	0	0	0	0	0	2580	
						1		20		31		38		43		7		0		0		0		0	139	12
	Bhadrapura	MF	XV-2 (P)	109.27	33.96	714	0	3864	0	1638	0	1218	0	1260	0	882	0	588	0	420	0	84	0	252	10920	
						3		68		80		117		200		210		195		186		48		160	1268	37
	Mysavi	SF	XV-3 (P)	144.46	144.46	15842	0	8544	0	3204	0	3382	0	1602	0	890	0	1958	0	890	0	356	0	178	36846	
						70		151		157		325		255		211		650		393		202		113	2528	18
			XV-4 (P)	91.87	45.87	3648	0	1881	0	1824	0	1596	0	1026	0	627	0	513	0	285	0	171	0	228	11799	
						16		33		90		154		163		149		170		126		97		145	1143	25
			XV-5 (P)	316.52	66.74	7052	0	2952	0	1476	0	2296	0	1804	0	820	0	492	0	410	0	164	0	492	17958	
						31		52		72		221		287		195		163		181		93		313	1609	24
			XV-6	417.72	344.72	40044	0	20874	0	11076	0	9372	0	9372	0	6390	0	5538	0	3408	0	1704	0	1278	109056	
						177		369		544		902		1491		1518		1838		1506		967		813	10124	29
	Ulur	SF	XV-8	191.3	134.75	3663	0	2664	0	6993	0	3330	0	4662	0	999	0	999	0	666	0	666	0	0	24642	
						16		47		343		320		742		237		332		294		378		0	2710	20
	Bilisiri	MF	XV-7	227.84	84.61	2508	0	3762	0	5225	0	2717	0	2299	0	627	0	1045	0	209	0	0	0	0	18392	
						11		66		257		261		366		149		347		92		0		0	1549	18
	Avinahalli	RF	XVI-4	43.08	43.08	1166	0	742	0	848	0	954	0	318	0	530	0	0	0	0	0	0	0	0	4558	
						5	-	13	-	42	-	92	-	51	-	126	-	-	-	-	-	-	-	-	328	8
	Bilisiri	RF	XV-14	120.45	120.45	5662	0	10728	0	9238	0	8940	0	3576	0	1490	0	0	0	298	0	0	0	0	39932	
						25	-	190	-	454	-	860	-	569	0	354	-	-	0	132	-	0	-	-	2583	21
	Malali	RF	XIII-22	52.57	52.57	0	0	910	0	1560	0	780	0	650	130	910	0	260	0	0	0	0	0	390	5460	
						0	-	16	-	77	-	75	-	103	-	216	-	86	-	0	-	0	-	248	822	16
	Maruru	RF	XV-13	123.62	81.96	0	0	1015	0	203	0	406	0	203	0	0	0	406	0	0	0	609	0	203	3045	
						0		18		10		39		32		0		135		0		346		129	709	9
	Nadamanchale	RF	XV-12	109.67	62.74	465	0	1705	0	2015	0	620	155	465	0	310	0	775	0	0	0	0	0	0	6355	
						2	-	30	-	99	-	60	15	74	-	74	-	257	-	-	-	-	-	-	596	9
	Nadavadahalli	RF	XVI-5	47.86	40.84	5353	0	7075	0	1818	0	606	0	404	0	202	0	101	0	0	0	0	0	0	15559	
						24	-	125	-	89	-	58	-	64	-	48	-	-	-	-	-	-	-	-	409	10
h)	**Shikaripura**																									
	Chandrakala	SF	IX-6	479.42	364.42	3600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3600	
						16		0		0		0		0		0		0		0		0		0	16	0
	Gangavanasara	SF	X-2	220.01	0.00	35200	-	880	-	660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36740	
						156		16		32															203	0
			X-3	208.6	0.00	18601	-	627	-	-	-	209	-	-	-	-	-	-	-	-	-	-	-	-	19437	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						82		11				20													113	0
			X-4(p)	140.22	30.95	4522	-	114	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4674	
						20		2		6															28	1
			X-5(p)	198.28	94.28	14848	-	696	-	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15660	
						66		12		6															84	1
			X-6	336.37	309.37	86332	-	3438	-	1146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90916	
						381		61		56															498	2
			X-7	314.01	164.01	18473	-	1624	-	203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20300	
						82		29		10															120	1
			X-8	358.53	72.94	14220	-	1890	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16290	
						63		33		24															120	2
			X-9	307.21	286.21	46728	-	15222	-	4602	-	708	-	354	-	-	-	-	-	-	-	-	-	-	67614	
						206		269		226		68		56											826	3
			X-10	318.91	316.91	103096	-	9800	-	5880	-	1176	-	-	-	-	-	-	-	-	-	-	-	-	119952	
						456		173		289		113													1031	3
			X-11(p)	48.63	41.63	19173	-	969	-	510	-	204	-	-	-	-	-	-	-	-	-	-	-	-	20856	
						85		17		25		20													147	4
			X-12	290.70	290.70	92263	-	15437	-	12206	-	3590	-	359	-	-	-	-	-	-	-	-	-	-	123855	
						408		273		599		345		57											1682	6
			X-13	264.92	264.92	69324	-	5886	-	981	-	654	-	1635	-	-	-	-	-	-	-	-	-	-	78480	
						306		104		48		63		260											781	3
			X-14	247.38	86.60	10914	-	1070	-	1284	-	642	-	-	-	-	-	-	-	-	-	-	-	-	13910	
						48		19		63		62													192	2
			X-15	276.30	276.30	74338	0	2387	0	1023	0	341	0	0	0	0	0	0	0	0	0	0	0	0	78089	
						328		42		50		24													445	2
			X-16(p)	157.29	157.29	59752	-	8924	-	6014	-	1940	-	-	-	-	-	-	-	-	-	-	-	-	76630	
						264		158		295		187													904	6
			X-17(p)	57.89	55.89	5934	-	276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6210	
						26		5																	31	1
			X-19(p)	130.10	117.10	10875	-	3045	-	1015	-	435	-	435	-	0	-	-	-	-	-	145	-	-	15950	
						48		54		50		42		69								82			345	3
	Markande	SF	IX-14	316.04	249.04	32032	0	12320	0	2156	0	1540	0	0	0	0	0	0	0	0	0	0	0	0	48048	
						142		218		106		148		0		0		0		0		0		0	613	2
			IX-15	391.41	358.25	90372	0	35440	0	15062	0	886	0	443	0	0	0	0	0	0	0	0	0	0	142203	
						399		626		739		85		70		0		0		0		0		0	1921	5
			IX-16	314.8	302.80	90134	0	39644	0	6732	0	2618	0	748	0	0	0	0	0	0	0	0	0	0	139876	
						398		701		330		252		119		0		0		0		0		0	1800	6
	Yerekatte	SF	IX-17	356.38	194.03	39360	0	6960	0	4800	0	4800	0	2640	0	0	0	0	0	0	0	0	0	0	58560	
						174		123		236		462		420		0		0		0		0		0	1414	7
	Suthabande	MF	IX-12(P)	157.05	137.05	15548	0	3380	0	1352	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20280	
						69		60		66		0		0		0		0		0		0		0	195	1
			IX-13(P)	380.65	287.65	42600	0	12425	0	7100	0	4970	0	1065	0	4260	0	355	0	1065	0	0	0	0	73840	
						188		220		349		478		169		1012		118		471		0		0	3005	10
	Kesarghatta	TR	X-20	174.03	102.03	252	0	1512	0	504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2268	
						1		27		25		0		0								0			53	1
i)	**Shiralkoppa**																									
	Arekoppa	SF	VII-8	359.37	255.09	3780	0	4095	0	1260	0	1890	0	945	0	1575	0	945	0	630	0	0	0	0	15120	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						17		72		62		182		150		374		314		278		0		0	1449	6
	Basavanandihalli	SF	VIII-4	410.9	23.98	2132	0	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2392	
						9		5		0		0		0		0		0		0		0		0	14	1
	Belandur	SF	XII-3(p)	50.00	50.00	5125	0	7995	0	4223	0	2337	0	1968	0	615	0	287	0	246	0	0	0	0	22796	
						23		141		207		225		313		146		95		109		0		0	1259	25
			XII-4(p)	30.91	30.91	1824	-	1976	-	1786	-	988	-	532	-	418	-	190	-	152	-	76	-	-	7942	
						8		35		88		95		85		99		63		67		43			583	19
			XII-5(p)	62.50	62.50	2156	0	2772	0	3696	0	2464	0	2233	0	693	0	77	0	77	0	154	0	0	14322	
						10		49		181		237		355		165		26		34		87			1144	18
	Chikkasavi	SF	VII-10	278.77	82.50	11118	0	4692	0	1428	0	1326	0	1020	0	612	0	306	0	102	0	0	0	204	20808	
						49		83		70		128		162		145		102		45		0		130	914	11
	Kavadi	SF	VII-11	453.26	111.46	19800	0	9625	0	1925	0	1925	0	550	0	275	0	825	0	275	0	0	0	0	35200	
						87		170		95		185		87		65		274		122		0		0	1085	10
	Kavali	SF	VIII-1	259.00	111.90	4508	0	92	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	0	4692	
						20		2		0		9		0		0		0		0		0		0	30	0
	Karjikoppa	SF	III-16(P)	45.72	11.72	14	0	140	0	252	0	504	0	378	0	238	0	168	0	28	0	0	0	42	1764	
						0		2		12		48		60		57		56		12				27	275	23
	Shigga - I	SF	VII-12	372.46	169.46	20482	0	18810	0	8151	0	3971	0	209	0	627	0	0	0	0	0	0	0	0	52250	
						90		332		400		382		33		149		0		0		0		0	1387	8
	Shigga - II	SF	VII-13	211.87	6.14	608	0	232	0	112	0	56	0	48	0	64	0	5	0	32	0	24	0	32	1213	
						3		4		5		5		8		15		2		14		14		20	90	15
	Syadalkoppa - I	SF	VII-16	109.67	49.33	8418	0	4819	0	1525	0	976	0	732	0	305	0	61	0	183	0	0	0	61	17080	
						37		85		75		94		116		72		20		81		0		39	620	13
	Syadalkoppa - II	SF	VII-17	116.96	53.96	5427	0	3082	0	2479	0	670	0	536	0	268	0	603	0	268	0	67	0	0	13400	
						24		54		122		64		85		64		200		118		38		0	770	14
	Togarsi	SF	VII-4	259.00	0.00	25382	0	3108	0	1295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29785	
						112		55		64		0		0		0		0		0		0		0	231	0
	Udri	SF	VII-2	405.93	169.97	12600	0	420	0	840	0	105	0	0	0	105	0	0	0	0	0	0	0	0	14070	
						56		7		41		10		0		25		0		0		0		0	139	1
	Chimnur	MF	III-8(P)	48.72	48.72	2100	0	4620	0	1740	0	1620	0	2160	0	3060	0	540	0	360	0	120	0	240	16560	
						9		82		85		156		344		727		179		159		68		153	1962	40
	Induvalli	MF	VII-15	143.42	73.42	6188	0	2912	0	1820	0	910	0	1001	0	455	0	819	0	728	0	182	0	273	15288	
						27		51		89		88		159		108		272		322		103		174	1394	19
	Jambur	MF	VIII-10	466.52	0.00	12142	0	1401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13543	
						54		25		0		0		0		0		0		0		0		0	78	0
			VIII-11	374.67	0.00	13500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13500	
						60		0		0		0		0		0		0		0		0		0	60	0
	Shigga	MF	VII-14	143.29	126.29	9048	0	6240	0	6552	0	2184	0	2340	0	1872	0	1248	0	780	0	780	0	780	31824	
						40		110		322		210		372		445		414		345		443		496	3197	25
	Syadalkoppa	MF	VII-20	140.63	51.63	6400	0	2560	0	1152	0	384	0	256	0	384	0	384	0	448	0	64	0	0	12032	
						28		45		57		37		41		91		127		198		36		0	661	13
j)	**Sorab**																									
	Absi	SF	II-8	330.96	174.72	6637	0	11975	0	11254	0	6059	0	3318	0	2453	0	1009	0	144	0	144	0	144	43138	
						29		212		552		583		528		583		335		64		82		92	3059	18
	Avalgodu	SF	III-11	375.11	337.11	2080	0	4160	0	6656	0	9152	0	4576	0	2496	0	1664	0	416	0	0	0	832	32032	
						9		74		327		881		728		593		552		184				529	3876	11
			III-12	352.68	282.68	19544	0	25477	0	15356	0	8725	0	6631	0	4537	0	4188	0	698	0	0	0	0	85156	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						86		450		754		840		1055		1078		1390		308					5961	21
	Belandur	SF	XII-1(p)	187.50	187.50	5104	0	9744	0	5568	0	5336	0	2088	0	2088	0	1392	0	928	0	464	0	232	32944	
						23		172		273		513		332		496		462		410		263		148	3093	16
			XII-2(p)	100.00	100.00	2728	0	2728	0	2728	0	4712	0	3348	0	1984	0	1860	0	248	0	496	0	496	21328	
						12		48		134		453		533		471		617		110		281		316	2976	30
			XII-3(p)	12.50	12.50	1250	0	1950	0	1050	0	580	0	520	0	150	0	70	0	70	0	10	0	0	5650	
						6		34		52		56		83		36		23		31		6		0	326	26
	Chandragutti	SF	I-9	237.86	170.67	4009	0	3376	0	8018	0	8229	0	7174	0	2532	0	1688	0	633	0	0	0	211	35870	
						18	-	60	-	394	-	792	-	1141	-	602	-	560	-	280	-	-	-	134	3980	23
			I-10	211.33	170.75	7385	0	6119	0	14137	0	6752	0	3587	0	2743	0	844	0	0	0	0	0	0	41567	
						33	-	108	-	694	-	650	-	571	-	652	-	280	-	-	-	-	-	-	2987	17
			I-11	218.85	195.54	18634	0	8470	0	13310	0	12100	0	6050	0	2178	0	1452	0	0	0	0	0	0	62194	
						82	-	150	-	653	-	1164	-	962	-	518	-	482	-	-	-	-	-	-	4012	21
			I-12	331.40	251.93	10885	0	11507	0	10574	0	10885	0	4665	0	1555	0	933	0	0	0	0	0	0	51004	
						48	-	203	-	519	-	1047	-	742	-	369	-	310	-	-	-	-	-	-	3239	13
			I-13	251.44	188.44	3262	-	5126	-	5359	-	4660	-	1631	-	-	-	-	-	-	-	-	-	-	20038	
						14	-	91	-	263	-	448	-	259	-	-	-	-	-	-	-	-	-	-	1076	6
			I-14	201.98	192.01	1185	0	3555	0	6636	0	2844	0	711	0	0	0	0	0	0	0	0	0	0	14931	
						5	-	63	-	326	-	274	-	113	-	-	-	-	-	-	-	-	-	-	781	4
			I-15	276.75	276.75	8208	0	31806	0	37278	0	14364	0	5472	0	3420	0	2052	0	1026	0	684	0	342	104652	
						36	-	562	-	1830	-	1382	-	870	-	813	-	681	-	453	-	388	-	218	7234	26
			I-16	212.92	191.27	8732	0	10384	0	8260	0	5192	0	1888	0	472	0	236	0	0	0	0	0	0	35164	
						39	-	184	-	406	-	500	-	300	-	112	-	78	-	-	-	-	-	-	1618	8
	Gunjanur	SF	II-3	308.37	280.37	2772	0	9009	0	8778	0	3927	0	3465	0	6468	0	2772	0	2079	0	0	0	462	39732	
						12		159		431		378		551		1537		920		919		0		294	5201	19
	Halagalale	SF	III-9	316.40	285.40	2824	0	10943	0	7766	0	4589	0	7060	0	4942	0	1765	0	2824	0	1765	0	1059	45537	
						12		193		381		442		1123		1174		586		1248		1002		674	6835	24
	Harishi - I	SF	I-5	122.99	64.06	9006	0	2607	0	1422	0	1975	0	1501	0	711	0	790	0	79	0	0	0	0	18091	
						40	-	46	-	70	-	190	-	239	-	169	-	262	-	35	-	-	-	-	1051	16
	Harishi - II	SF	I-6	174.73	112.89	5282	0	2085	0	3753	0	1807	0	2085	0	1390	0	1251	0	556	0	139	0	0	18348	
						23	-	37	-	184	-	174	-	332	-	330	-	415	-	246	-	79	-	-	1820	16
	Hirehavali	SF	III-4	105.50	105.50	390	0	2860	0	1950	0	2080	0	2080	0	650	0	780	0	0	520	0	520	0	10790	
						2		51		96		200		331		154		259			261		331		1092	10
			III-5	164.00	139.00	23564	-	12900	-	3956	-	2408	-	1376	-	2580	-	-	-	-	-	172	-	516	47472	
						104		228		194		232		219		613						98		328	2016	15
	Idur	SF	I-3	168.78	160.46	18612	0	11286	0	7326	0	6732	0	8118	0	3168	0	2376	0	990	0	396	0	198	59202	
						82	-	199	-	360	-	648	-	1291	-	753	-	789	-	437	-	225	-	126	4910	31
			I-4	245.26	220.26	28016	-	15232	-	16320	-	11152	-	6800	-	4896	-	2448	-	1360	-	544	-	-	86768	
						124	-	269	-	801	-	1073	-	1082	-	1163	-	812	-	601	-	309	-	-	6234	28
	Karjikoppa	SF	III-14	259.84	246.84	-	-	3965	0	9455	0	14335	0	8845	0	1525	0	2745	0	1220	0	0	0	0	42090	
								18		167		704		851		243		652		405					3039	12
			III-15	418.65	397.65	1964	-	2946	-	13748	-	13748	-	21604	-	3928	-	3928	-	2455	-	491	-	982	65794	
						9		52		675		1323		3436		933		1304		1085		279		625	9720	24
			III-16(P)	266.79	92.78	115	0	1150	0	2070	0	4140	0	3105	0	1955	0	1380	0	230	0	0	0	345	14490	
						1		20		102		398		494		465		458		102				220	2258	24
	Kuntagalale - I	SF	I-7	353.45	321.34	3970	0	2779	0	2382	0	4764	0	4764	0	2382	0	1588	0	0	0	0	0	0	22629	
						18	-	49	-	117	-	458	-	758	-	566	-	527	-	-	-	-	-	-	2493	8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
	Kuntagalale - II	SF	I-8	328.13	278.13	20640	0	7912	0	2752	0	3440	0	3784	0	2752	0	688	0	1376	0	1032	0	688	45064	
						91	-	140	-	135	-	331	-	602	-	654	-	228	-	608	-	586	-	438	3813	14
	Kyasanur - I	SF	II-17	336.84	280.34	693	0	2541	0	10164	0	15477	0	10857	0	4389	0	1386	0	1617	0	924	0	462	48510	
						3		45		499		1489		1727		1043		460		714		524		294	6799	24
	Kyasanur - II	SF	II-18	417.78	323.41	2800	0	5200	0	6800	0	16400	0	18000	0	11200	0	6400	0	3200	0	400	0	800	71200	
						12		92		334		1578		2863		2661		2124		1414		227		509	11815	37
			II-19	161.13	32.19	600	0	200	0	520	0	1240	0	1920	0	960	0	760	0	240	0	240	0	160	6840	
						3		4		26		119		305		228		252		106		136		102	1281	40
	Bhadrapura	MF	XV-2 (P)	100.28	40.89	867	0	4692	0	1989	0	1479	0	1530	0	1071	0	714	0	510	0	102	0	306	13260	
						4		83		98		142		243		254		237		225		58		195	1539	38
	Mysavi	SF	XV-3 (P)	31.25	31.25	3471	0	1872	0	702	0	741	0	351	0	195	0	429	0	195	0	78	0	39	8073	
						15		33		34		71		56		46		142		86		44		25	554	18
			XV-4 (P)	102.12	102.12	8064	0	4158	0	4032	0	3528	0	2268	0	1386	0	1134	0	630	0	378	0	504	26082	
						36		73		198		339		361		329		376		278		215		321	2527	25
			XV-5 (P)	93.41	93.41	9890	0	4140	0	2070	0	3220	0	2530	0	1150	0	690	0	575	0	230	0	575	25070	
						44		73		102		310		402		273		229		254		131		366	2183	23
	Absi	MF	II-26	85.28	85.28	211	0	844	0	1899	0	422	0	211	0	211	0	0	0	0	0	0	0	0	3798	
						1		15		93		41		34		50		0		0		0		0	233	3
	Andige	MF	III-6	101.72	11.72	-	-	-	-	-	-	70	0	56	0	14	0	14	0	0	0	0	0	0	154	
												7		9		3		5							24	2
	Ankaravalli	MF	II-6	139.58	133.58	3795	-	825	-	3795	-	2640	-	1815	-	1980	-	660	-	330	0	0	0	0	15840	
						17		15		186		254		289		470		219		146					1596	12
	Chandragutti	MF	I-17	89.45	77.82	6720	0	3744	0	1056	0	1152	0	192	0	192	0	96	0	0	0	0	0	0	13152	
						30	-	66	-	52	-	111	-	31	-	46	-	32	-	-	-	-	-	-	367	5
	Chilanur	MF	II-13	46.56	23.56	495	0	647	0	857	0	686	0	609	0	552	0	171	0	171	0	57	0	154	4399	
						2		11		42		66		97		131		57		76		32		98	612	26
	Chimnur	MF	III-8(P)	620.52	587.52	25410	0	55902	0	21054	0	19602	0	26136	0	37026	0	6534	0	4356	0	1452	0	2904	200376	
						112		988		1034		1886		4157		8798				1925					18900	32
	Dandavathi	MF	III-1	192.51	168.51	4580	0	4788	0	2498	0	4580	0	3747	0	1874	0	1666	0	625	0	833	0	625	25816	
						20		85		123		441		596		445		553		276		473		397	3408	20
			III-2	274.89	219.89	2172	0	5430	0	2534	0	3077	0	2896	0	1267	0	905	0	543	0	0	0	543	19367	
						10		96		124		296		461		301		300		240		0		345	2174	10
	Dugur	MF	III-17	102.48	90.48	1344	-	2240	-	1568	-	3472	-	2240	-	1008	-	1456	-	336	-	-	-	1232	14896	
						6		40		77		334		356		240		483		148				784	2468	27
	Gunjanur	MF	II-4	111.04	101.96	6048	0	5040	0	1008	0	252	0	0	0	504	0	0	0	0	0	0	0	0	12852	
						27		89		49		24		0		120		0		0		0		0	309	3
	Harishi	MF	I-1	178.57	78.69	5529	0	4268	0	3880	0	3007	0	2134	0	1746	0	970	0	485	0	97	0	97	22213	
						24	-	75	-	190	-	289	-	339	-	415	-	322	-	214	-	55	-	62	1987	25
	Hechi	MF	II-5	147.96	132.96	9840	0	2788	0	1476	0	164	0	0	0	0	0	0	0	0	0	164	0	0	14432	
						43		49		72		16		0		0		0		0		93		0	274	2
	Heggodu	MF	III-10	159.41	154.41	955	-	1910	-	3056	-	4202	-	2101	-	1146	-	764	-	191	-	-	-	764	15089	
						4		34		150		404		334		272		254		84				486	2023	13
	Hirehavali	MF	III-3	93.48	90.48	3472	-	7280	-	3136	-	2352	-	1568	-	560	-	448	-	336	-	-	-	224	19376	
						15		129		154		226		249		133		149		148				143	1346	15
	Hosabale	MF	II-14	167.81	3.98	550	0	170	0	180	0	145	0	45	0	25	0	0	0	0	0	0	0	0	1115	
						2		3		9		14		7		6		0		0		0		0	41	10
	Jamballi	MF	II-2	235.47	171.47	1060	0	636	0	1060	0	1272	0	212	0	212	0	424	0	636	0	1060	0	1060	7632	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						5		11		52		122		34		50		141		281		602		674	1972	12
	Kakkarsi	MF	II-9	297.12	297.12	6860	0	6615	0	17395	0	19110	0	11270	0	3675	0	2940	0	1960	0	735	0	1715	72275	
						30		117		854		1839		1793		873		976		866		417		1091	8856	30
	Kamalapura	MF	I-18	144.46	139.46	2408	-	6880	-	5160	-	4816	-	1720	-	344	-	-	-	-	-	-	-	-	21328	
						11	-	122	-	253	-	463	-	274	-	82	-	-	-	-	-	-	-	-	1204	9
	Kamarur	MF	I-2	121.41	0.00	6678	-	4492	-	2914	-	2671	-	1336	-	1336	-	728	-	242	-	121	-	0	20517	
						30	-	79	-	143	-	257	-	212	-	317	-	242	-	107	-	69	-	0	1456	0
	Kaisodi	MF	XV-1	87.41	50.41	625	0	3625	0	3250	0	1750	0	1125	0	1375	0	250	0	0	0	0	0	0	12000	
						3		64		160		168		179		327		83		0		0		0	983	20
	Kodakani	MF	III-7	352.63	196.16	4598	0	8228	0	2904	0	5566	0	4356	0	1210	0	1210	0	726	0	0	0	1694	30492	
						20		145		143		536		693		288		402		321				1078	3624	18
	Nadahalli	MF	II-11	369.05	221.05	16440	0	4932	0	2055	0	2329	0	1781	0	5	685	411	0	137	0	274	0	0	28364	
						73		87		101		224		283		1		136		61		156		0	1122	5
	Nyarsi	MF	I-19	176.18	129.74	4160	0	4320	0	5760	0	1440	0	320	0	640	0	0	0	160	0	0	0	0	16800	
						18	-	76	-	283	-	139	-	51	-	152	-	-	-	71	-	-	-	-	790	6
	Sagadde	MF	III-13	362.48	344.48	2982	-	20448	-	14910	-	14910	-	11076	-	2130	-	4260	-	2556	-	-	-	2130	75402	
						13		361		732		1435		1762		506		1414		1129				1355	8708	25
	Thandige	MF	II-7	99.15	99.15	8418	0	7564	0	6344	0	5734	0	3782	0	2440	0	610	0	610	0	122	0	366	35990	
						37		134		311		552		602		580		202		270		69		233	2990	30
	Tyavagodu	MF	IV-11	20.23	20.23	2525	0	1125	0	975	0	800	0	575	0	375	0	250	0	125	0	100	0	175	7025	
						11		20		48		77		91		89		83		55		57		111	643	32
	Vantigadde	MF	II-16	149.74	149.74	925	0	370	0	1110	0	3885	0	4810	0	3330	0	555	0	370	0	0	0	0	15355	
						4		7		54		374		765		791		184		163		0		0	2343	16
	Yalasi	MF	II-10	193.48	126.48	1248	0	2184	0	2496	0	3120	0	4212	0	4212	0	1560	0	2028	0	0	0	624	21684	
						6		39		123		300		670		1001		518		896		0		397	3948	31
	Baragi	RF	II 22	72.04	44.08	0	0	654	0	436	0	545	0	327	0	545	0	0	0	0	0	0	0	0	2507	
						0		12		21		52		52		129		0		0		0		0	267	6
	Bennuru	RF	IV-19	34.80	29.47	1022	0	584	0	438	0	365	0	73	0	73	0	0	0	0	0	0	0	0	2555	
						5		10		22		35		12		17		0		0		0			100	3
	Chilanur	RF	II-24	67.63	45.47	560	0	560	0	336	0	448	0	224	0	112	0	0	0	0	0	0	0	0	2240	
						2		10		16		43		36		27		0		0		0		0	134	3
	Edur	RF	I-20	191.48	191.48	3792	0	4029	0	2370	0	948	0	0	0	948	0	237	0	237	0	237	0	711	13509	
						17	-	71	-	116	-	91	-	0	-	225	-	-	-	105	-	135	-	452	1213	6
	Harishi	RF	I-21	21.51	14.95	407	0	444	0	259	0	0	0	0	0	37	0	0	0	0	0	0	0	0	1147	
						2	-	8	-	13	-	0	-	-	-	9	-	-	-	-	-	-	-	-	31	2
	Kyasanur	RF	I-25	127.48	127.48	948	0	632	158	632	0	632	0	790	0	316	0	0	0	158	0	0	0	0	4108	
						4	-	11	-	31	-	61	-	-	-	75	-	-	-	-	-	-	-	-	182	1
	Magadi	RF	II-23	79.72	79.72	3546	0	394	0	394	0	394	0	0	0	591	0	0	0	197	0	0	0	0	5516	
						16		7		19		38		0		140		0		87		0		0	307	4
	Ulavi	RF	III 18	19.99	5.11	0	0	0	0	78	0	143	0	13	0	78	0	104	0	39	0	26	0	39	520	
						0		0		4		14		2		19		35		17		15		25	130	25
	Veerannapura	RF	II 20	38.84	21.66	0	0	2322	0	918	0	486	0	108	0	270	0	108	0	54	0	108	0	0	4374	
						0		41		45		47		17		64		36		24		61		0	335	15

Annexure – 12

Range wise abstract of allotment of areas to various Working Circle.

(Area in hectares)

Range	Area	Biodiversity conservation WC	Rehabilitation of degraded forests WC	Improvement WC	Afforestation and Plantation management WC	Overlapping WC	Others
1	2	3	4	5	6	7	8
Ambligola	13652.64	GWRWHS: 3084.34	999.55	4782.33	AFPSTF: 2936.11 Acacia: 8.00 Teak: 1035.67 Encroachment: 2999.50 **Total: 6979.28**	Bamboo OWC: 1853.00 Sandal OWC: Whole range MFP OWC: Whole range	KFDC: 891.48
Anandapuram	12490.22	Eco tourism: 129.83	354.11	6115.43	AFPSTF: 1085.87 Acacia: 28.00 Teak: 1753.78 Encroachment: 2175.71 **Total: 5043.36**	Bamboo OWC: 4051.36 Sandal OWC: Whole range MFP OWC: Whole range	KFDC: 688.49 MPM: 159.00
Anavatti	8035.64	GWRWHS: 1927.84	1476.49	1466.25	AFPSTF: 964.80 Acacia: 46.00 Teak: 1399.72 Encroachment: 1834.72 **Total: 4245.24**	Bamboo OWC: 166.84 Sandal OWC: Whole range (361.87 exclusively allotted) MFP OWC: Whole range	KFDC: 485.79
Hosnagara	16109.24	Eco tourism: 459.22	4696.32	5126.52	AFPSTF: 1030.51 Acacia: 98.00 Teak: 710.92 Eucalyptus: 50.00 Encroachment: 1692.59 **Total: 3582.02**	Bamboo OWC: 1879.15 Sandal OWC: Whole range MFP OWC: Whole range	KFDC: 151.80. MPM: 1785.79. (307.57 ha of Gubbiga RF under submersion)

1	2	3	4	5	6	7	8
Kargal	32303.66	BDHS: 5881.52 GB 1040.84 (838.46 ha overlapping) Eco tourism: 1176.31	-	3187.03	AFPSTF: 155.29 Acacia: 20.00 Encroachment: 214.27 **Total: 389.56**	Bamboo OWC: Nil Sandal OWC: Whole range MFP OWC: Whole range	MPM: 233.00 Wildlife area 21183.86 (70.00 ha under submersion) (*20.00 Acacia plantation included in WL area)
Nagara	21469.42	BDHS: 14685.61 Grassy blank: 57.32 Eco tourism: 889.47 **Total: 15632.40**	424.27	2200.69	AFPSTF: 806.92 Acacia: 20.00 Encroachment: 1532.09 **Total: 2359.01**	Bamboo OWC: 424.27 Sandal OWC: Whole range MFP OWC: Whole range	MPM: 853.05
Sagar	7086.74	BDHS: 1225.35 Grassy blank: 140.89 **Total: 1366.24**	205.16	2756.82	AFPSTF: 152.04 Acacia: 132.00 Teak: 1005.84 Eucalyptus: 209.09 Encroachment: 1187.49 **Total: 2686.46**	Bamboo OWC: 1230.53 Sandal OWC: Whole range MFP OWC: Whole range	KFDC: 72.06
Shikaripur	14471.20	GWRWHS: 1230.37	6109.93	287.65	AFPSTF: 2825.18 Acacia: 46.00 Teak: 499.00 Encroachment: 2504.79 **Total: 5874.97**	Bamboo OWC: 2976.38 Sandal OWC: Whole range (399.22 exclusively allotted) MFP OWC: Whole range	KFDC: 1462.77 MPM: 336.66
Shiralkoppa	8314.92	GWRWHS: 1304.53	646.89	412.61	AFPSTF: 1280.60 Acacia: 184.00 Teak: 567.20 Encroachment: 2897.35 **Total: 4929.15**	Bamboo OWC: 185.79 Sandal OWC: Whole range MFP OWC: Whole range	KFDC: 2326.27

1	2	3	4	5	6	7	8
Sorba	13895.72	ET 331.47 GWRWHS: 610.11	2623.43	7740.13	AFPSTF: 1052.89 Acacia: 145.00 Teak: 343.47 Encroachment: 1174.72 **Total: 2716.08**	Bamboo OWC: 3358.48 Sandal OWC: Whole range MFP OWC: Whole range	KFDC: 318.11 MPM: 127.00 (39.50 ha under transmission line)
Total	**147829.40**	BDHS**: 22193.07 ha** (21792.48+400.59) Grassy Blanks: **1239.05** (799.84 in wild life. 38.62 in Eco tourism and 400.59 included in Biodiversity Hot-spot) Eco tourism: **2986.30** (includes 38.62 ha Grassy blanks) GWRWHS: **8157.19** (Overlapping in other WCs)	**17536.15**	**34075.46**	AFPSTF: **12290.21** Acacia: **727.00** Teak: **7315.60** Eucalyptus: **259.09** Encroachment: **18213.23** **Total: 38805.13**	Bamboo OWC: **16216.76** Sandal OWC: Whole division. (**761.09** exclusively allotted) MFP OWC: Whole division.	KFDC: **6396.77** MPM: **3494.50** Wildlife area: **21183.86** (**377.57** ha under submersion, **39.50** ha under transmission line, **20.00** ha Acacia plantation overlapping in WL area)

Annexure 13

Bamboo Analysed Data Showing Bamboo Status in the Compartments Alloted to the BOWC

Sl.No	Compt No.	Extent	Area prescribed		Total Clumps	No of culms Green	No of culms Dry	No of Current year culms	Total no of culms	% of Green culms	% of Dry culms	% of Current year culms
1	2	3	4		5	6	7	8	9	10	11	12
1	**Ambligola RANGE**											
1	XXII-7	247.09	B	247.09	8260	56697	13629	7137	77463	73.19	17.59	9
2	XXII-8	363.8	B	303.80	4500	54510	25125	4740	84375	64.60	29.78	6
3	XXII-9	68.46	B	58.46	504	21670	4824	2954	29448	73.59	16.38	10
4	XXII-10	390.29	B	54.18	4199	36945	10982	6014	53941	68.49	20.36	11
5	XXII-13	494.3	B	422.30	3132	31425	9396	5115	45936	68.41	20.45	11
6	XI-7	238.58	B	141.58	2275	13094	350	2131	15575	84.07	2.25	14
7	XI-9	229.82	B	75.34	1488	15775	8928	2918	27621	57.11	32.32	11
8	XI-10	109.93	B	28.23	1015	4959	8364	431	13754	36.05	60.81	3
9	XI-12	222.81	B	222.81	1100	10643	4675	1732	17050	62.42	27.42	10
10	XI-21	260.05	B	182.05	1125	4140	225	360	4725	4.76	7.62	8
11	XI-28	149.12	B	118.12	2628	7782	2336	1708	11826	19.75	14.44	14
2	**Anandapuram Range**											
12	XIV-3	153.55	B	138.55	2907	88749	8721	0	97470	8.95	0.00	0
13	XIV-4	99.92	B	93.92	1508	24824	2668	0	27492	9.70	0.00	0
14	XIV-5	357.46	B	237.96	2552	23520	4116	0	27636	14.89	0.00	0
15	XIV-7	299.73	B	289.73	4296	92722	9308	0	102030	9.12	0.00	0
16	XI-26	42.86	B	18.86	92	483	115	0	598	19.23	0.00	0
17	XI-27	43.27	S	43.27	214	1070	107	0	1177	9.09	0.00	0
18	XI-28	99.41	S	99.41	246	615	0	0	615	0.00	0.00	0
			B		1968	7995	1968	0	9963	19.75	0.00	0
19	XI-29	246.85	S	176.85	3270	22890	1744	0	1744	100.00	0.00	0
20	XI-33	347.46	B	244.92	1818	13736	1616	0	15352	10.53	0.00	0
21	XI-34	310.08	B	190.20	3290	30080	8460	0	38540	21.95	0.00	0
22	XI-36	371.88	B	317.88	2751	24366	2751	0	27117	10.14	0.00	0
23	XI-38	136.06	B	129.06	3975	66780	17013	0	83793	20.30	0.00	0
24	XI-39	141.81	B	140.81	2088	29580	6264	0	35844	17.48	0.00	0
25	XI-40	264.51	B	238.51	1180	7670	0	0	7670	0.00	0.00	0

1	2	3		4	5	6	7	8	9	10	11	12
25	XIV-8	334.56	B	287.56	1420	27690	2840		30530	9.30	0.00	0
27	XIV-9	293.14	B	251.14	3100	31310	3410	0	34720	9.82	0.00	0
28	XIV-10	300.84	B	133.54	4620	54285	5940	0	60225	9.86	0.00	0
29	XIII-9	195.05	B	60.05	1184	9916	10656	2294	22866	46.60	10.03	10
30	XIII-10	186.64	S	80.64	6368	97510	59501	39203	196214	30.32	19.98	20
			B		2189	16915	11144	3582	31641	35.22	11.32	11
31	XIII-11	211.65	B	178.65	3236	30498	13260	8649	52407	25.30	16.50	17
32	XIII-12	254.59	B	206.59	5100	230	132	57	419	31.50	13.60	14
33	XIII-15	162.77	B	8.77	11	121	99	22	242	40.91	9.09	9
34	XIII-16	286.07	B	133.87	825	10065	6270	2475	18810	33.33	13.16	13
35	XIII-17	199.63	B	43.23	318	1749	1113	371	3233	34.43	11.48	11
36	XIII-18	217.84	B	43.44	216	2160	918	432	3510	26.15	12.31	12
37	XIII-19	164.41	B	48.34	660	3060	21900	840	25800	84.88	3.26	3
38	XIII-3	232.40	B	163.40	1010	12120	6868	0	18988	36.17	0.00	0
39	XIV-11	129.21	B	52.21	900	16830	2340	0	19170	12.21	0.00	0
3	**Anavatti Range**											
40	VI-5	253.39	B	78.29	1649	2614	2619	781	6014	43.55	12.99	13
41	V-7	195.55	B	88.55	1090	3493	981	431	4905	20.00	8.79	9
4	**Hosanagar Range**											
42	XXIV-6	127.6	S	127.60	2054	39342	0	2054	41396	0.00	4.96	5
			B		2212	29388	0	2212	31600	0.00	7.00	7
43	XXIV-10	295.24	B	295.24	2190	18250	0	2190	20440	0.00	10.71	11
44	XXIII-1	262.40	S	158.40	980	15351	0	2093	17444	0.00	12.00	12
45	XXIII-3	159.92	S	97.92	1089	11500	0	1568	13068	0.00	12.00	12
46	XXIII-14	196.42	B	196.42	10692	57568	22842	16679	97089	23.53	17.18	17
47	XXIII-6	195.00	S	132.05	1467	15280	0	2324	17604	0.00	13.20	13
48	XXIII-7	228.26	S	120.98	2384	39783	1937	6854	48574	3.99	14.11	14
49	XXIII-33	230.15	B	140.53	3470	14964	0	4350	19314	0.00	22.52	23
50	XXIV-29	156.99	B	102.99	3556	32258	1270	5842	39370	3.23	14.84	15
51	XXIV-26	71.61	B	44.61	660	12105	660	2305	15070	4.38	15.30	15

1	2	3		4	5	6	7	8	9	10	11	12
52	XXIV-35	133.28	S	112.17	417	1946	0	0	1946	0.00	0.00	0
			B		1112	16931	1390	3224	21545	6.45	14.96	15
53	XXIV-18	24.28	B	24.28	420	5940	0	0	5940	0.00	0.00	0
54	XXIV-23	123.75	S	93.75	4872	35264	4176	4640	44080	9.47	10.53	11
55	XXIV-24	124.87	S	124.87	3399	39861	2781	8343	50985	5.45	16.36	16
56	XXIII-24	54.03	B	49.03	1464	19164	2440	3650	25254	9.66	14.45	14
57	XXIV-21	154.31	B	58.31	1296	12384	1584	2016	15984	9.91	12.61	13
6	**Nagara Range**											
58	XXVII-3	466.27	B	424.27	2096	10365	6288	1687	18340	34.29	9.20	9
7	**Sagara Range**											
59	VI-1	214.40	B	64.30	3339	44304	9858	7212	61374	16.06	11.75	12
60	XII-2	418.94	B	418.94	5698	43751	5698	9603	59052	9.65	16.26	16
61	XII-3	420.83	B	260.83	1290	8308	3655	1582	13545	26.98	11.68	12
62	XII-9	75.00	B	75.00	2604	26081	6231	5725	38037	16.38	15.05	15
63	XV-5	316.52	B	66.74	1722	16665	2952	227	19844	14.88	1.14	1
64	XV-6	417.72	B	344.72	9798	100877	22578	25219	148674	15.19	16.96	17
8	**Shikaripura Range**											
65	IX-1	311.42	B	304.42	11280	370736	0	70688	441424	0.00	16.01	16
66	IX-2	388.09	B	364.09	18000	277200	0	67500	344700	0.00	19.58	20
67	IX-3	377.25	B	370.25	22875	883890	0	124440	1008330	0.00	12.34	12
68	IX-4	644.94	B	546.94	29722	1586074	0	212107	1798181	0.00	11.80	12
69	IX-5	359.56	B	254.56	13838	359788	0	81770	441558	0.00	18.52	19
70	IX-6	479.42	B	364.42	14400	51480	42300	7020	100800	41.96	6.96	7
71	X-13	264.92	B	264.92	1308	6436	4578	1412	12426	36.84	11.36	11
72	X-19	130.10	S	117.10	2320	126701	8700	22359	157760	5.51	14.17	14
73	IX-13	380.65	B	287.65	1065	5130	3195	905	9230	34.62	9.80	10
74	X-20	102.03	B	102.03	15120	15120	0	3276	18396	0.00	17.81	18
9	**Shiralkoppa Range**											
75	VII-10	278.77	B	82.50	1530	9078	4182	5610	18870	22.16	29.73	30

1	2	3		4	5	6	7	8	9	10	11	12
76	VII-16	109.67	B	49.33	2806	11224	6588	6832	24644	26.73	27.72	28
77	VII-17	116.96	B	53.96	1742	5159	4489	3417	13065	34.36	26.15	26
10	**Soraba Range**											
78	XII-2	100.00	B	100.00	1240	12772	1364	0	14136	9.65	0.00	0
79	I-9	170.67	B	170.67	5275	26675	2110	4342	33127	6.37	13.11	13
80	I-10	170.75	B	170.75	7807	27650	11394	5266	44310	25.71	11.88	12
81	I-11	195.54	B	195.54	11132	45535	6050	8673	60258	10.04	14.39	14
82	I-12	251.93	B	251.93	9952	54065	10263	11867	76195	13.47	15.57	16
83	I-13	188.44	B	188.44	5592	26618	5126	5070	36814	13.92	13.77	14
84	I-16	191.27	B	191.27	2832	27197	14632	4427	46256	31.63	9.57	10
85	I-3	168.78	B	160.48	2970	18563	1782	3022	23367	7.63	12.93	13
86	I-4	245.25	B	220.26	5168	26820	5984	4732	37536	15.94	12.61	13
87	I-7	353.45	B	321.34	2382	63552	17468	9496	90516	19.30	10.49	10
88	I-8	328.13	B	278.13	3440	79581	24080	12955	116616	20.65	11.11	11
89	II-17	32.79	S	280.34	2310	27813	2082	4527	34422	6.05	13.15	13
90	XV-5	93.41	S	93.41	0	12066	2990	1964	17020	17.57	11.54	12
			B		2415	8501	1150	1159	10810	10.64	10.72	11
91	I-17	77.82	B	77.82	3072	43788	11722	8340	63850	18.36	13.06	13
92	I-1	178.57	B	78.69	2037	15237	2910	2902	21049	13.82	13.79	14
93	II-9	297.12	S	297.12	2205	16242	4165	3093	23500	17.72	13.16	13
			B		245	490	1470	0	1960	75.00	0.00	0
94	I-2	121.41	B	-	2420	25047	6897	0	31944	21.59	0.00	0
95	III-7	352.63	B	196.16	1210	4114	1452	0	5566	26.09	0.00	0
				3272.35	-0.02							
	Total	**21636**	**S**	**16040.63**	**38967**	**551896**	**118636**	**106678**	**777210**	**71**	**15**	**14**
		21636	**B**		**525426**	**8442891**	**1040852**	**1293512**	**10777255**	**78**	**10**	**12**
	GRAND TOTAL				**564393**	**8994787**	**1159488**	**1400190**	**11554465**	**149**	**25**	**26**

Annexure 14

ACACIA PLANTATIONS IN SAGAR DIVISION

Sl No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Present volume in M^3
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	FOREST AREAS												
1	**AMBLIGOLA RANGE**												
1	Ambligola	Belandur SF	XII	10	1982	8.00	37	66	11.50		3.67	**2960**	**412**
2	**ANANDAPURA RANGE**												
1	Anandapura	Malandur SF	XIII	18	1982	20.00	23	70	15.00		3.89	4600	940
2		Goutanpura	XIII	20	1985	8.00	41	75	12.00		5.00	3280	616
					Total	**28.00**					**9**	**7880**	**1556**
3	**ANAVATTI RANGE**												
1	Anavatti	Tavanandi	IV	10	1986	10.00	17	128	29.64		9.14	1700	2296
2		Tyavagodu	IX	11	1989	14.00	61	49	13.80		4.45	8540	787
3		Bettadakurli SF	VI	6	1994	22.00	234	23	7.21		3.75	51480	522
					TOTAL	**46.00**					**17**	**61720**	**3605**
4	**HOSANAGARA RANGE**												
1	Hosanagar	Nagarahalli	XXIII	19	1985	10.00	149	47	14.82		3.15	14900	1367
2		Nagarahalli	XXIII	19	1985	5.00	129	43	11.55		2.86	6450	381
3		Varakodu	XXIII	20	1986	3.00	33	26	3.10		1.88	990	6
4		Varakodu	XXIII	30	1986	30.00	72	61	19.11		4.39	21600	4336
8		Varakodu	XXIII	30	1986	8.00	85	58	18.40		4.12	6800	1155
9		Nagarahalli	XXIII	19	1989	17.00	101	45	10.92		4.07	17170	1045
11		Jamballi SF	XXIV	16	1990	10.00	89	34	13.63		3.35	8900	379
12		M.G.Koppa	II	25	1990	5.00	84	67	13.32		6.71	4200	701
13		Mumbaru	XXIII	22	1996	10.00	230	21	7.017		5.20	23000	194
					TOTAL	**98.00**					**36**	**104010**	**9564**
5	**KARGAL RANGE**												
1	Kargal	Biligar	XX	16	1983	20.00	69	46	9.88		3	13800	806
					TOTAL	**20.00**					**3**	**13800**	**806**
6	**NAGARA RANGE**												
1	Nagara	Sampekatte	XXVI	2	1975	20.00	56	53	11.00		2	11100	954
					TOTAL	**20.00**					**2**	**11100**	**954**
7	**SAGARA RANGE**												
1	Sagar	Nadamanchale	XV	12	1985	20.00	55	55	14.74		4	11000	1362
2		Avinahalli	XVI	3	1993	20.00	-	-	-		-	-	-
3		Bellenne	XVII	5	1995	10.00	152	27	10.19		5	15200	304
4		Masuru	-	-	1976	10.00	25	66	11.54		3	2500	351
5		Masuru	-	-	1976	24.00	24.5	71	12.26		3	5880	1000
6		Hiremane	-	-	1987	20.00	31	47	9.83		4	6200	381
7		Nadamanchale	-	-	1989	15.00	16	54	9.56		5	2400	187
8		Bellenne			1990	13.00	75	45	11.92		4	9750	641
					TOTAL	**132.00**					**28**	**52930**	**4226**
8	**SHIKARIPURA RANGE**												
1	Shikaripura	Athibylu	X	19	1986	8.00	13	67	8.61		5	1040	112
2	"	Suthbande	"	12	1990	10.00	22	35	7.68		4	2200	58
3	"	"	"	"	1993	10.00	14	21	7.78		3	1400	13
4	"	Gangavanasara	X	14	1998	8.00	9	65	7.88		33	720	67
5	"	Mathigatta	IX	15	1998	10.00	25	52	7.60		26	2500	143
					TOTAL	**46.00**			**39.55**		**70**	**7860**	**392**
9	**SHIRALKOPPA RANGE**												
1	Shiralkoppa	Kavali	VIII	1	1970	29.00	24.33	42	6.23		1	7057	216
2	"	"	VIII	1	1971	20.00	40.5	19	2.75		1	8100	22
3	"	Kawadi	VII	11	1987	10.00	15	50	4.37		4	1500	46
4	"	Kansoi	Gomal	-	1989	40.00	51	66	13.00		6	20200	3210
5	"	Kawadi	VII	11	1990	13.00	6	52	4.60		5	780	27
6	"	Thogarsi	VIII	4	1992	15.00	24	14	6.70		2	3600	13

1	2	3	4	5	6	7	8	9	10	11	12	13	14
7	"	Basavanandihalli	VIII	8	1992	10.00	24	45	2.29		6	2400	31
8	"	Basavanandihalli	VIII	8	1993	10.00	7	137	2.28		20	700	83
9	"	Thogarsi	VIII	4	1994	20.00	15.5	35.5	10.28		6	3100	112
10	"	Thogarsi	VIII	4	1997	17.00	3.5	24	1.13		8	595	1
					TOTAL	**184.00**					**49**	**40380**	**3544**
10	**SORABA RANGE**												
1	Sorab	Yalsi	-	-	1982	18.00	32	79	14.50		4	5760	1450
2	Sorab	Halgalale SF	III	9	1987	15.00	66	77	10.00		5	8025	967
3	Sorab	Chimnur-Heggodu MF	III	8	1989	10.00	45	58	9.15		5	4500	385
4	Sorab	Dugur	-	-	1989	12.00	30	49	8.50		4	3600	204
5	Sorab	Kamarur RF	-	-	1989	28.00	56	55	7.00		5	13907	943
6	Sorab	Gunjanur RF	II	-	1990	12.00	39	45	5.77		5	4680	152
7	Sorab	Chimnur MF	III	8	1990	6.00	46	50	7.50		5	2760	144
8	Sorab	Chimnur MF	III	8	1990	7.00	67	68	10.80		7	4690	651
9	Sorab	Yalsi	-	-	1991	10.00	42	80	14.50		9	4200	1087
10	Sorab	Chimnur MF	III	8	1991	5.00	62	58	10.00		6	3100	290
11	Sorab	Shanthikere	-	-	1994	12.00	94	32	7.00		5	11280	225
12	Sorab	Gunjanur RF	II	-	1991	10.00	24	46	6.50		5	2400	92
					TOTAL	**145.00**					**66**	**68902**	**6589**
					G.TOTAL	**727.00**					**283**	**371542**	**31619**

NON - FOREST AREAS

1	**AMBLIGOLA RANGE**												
1	Ambligola	Churchigundi			1990	27.20	34	24	3.00		2	9180	38
2	Ambligola	Yerekoppa			1991	5.26	13	64	10.50		7	684	82
3	Ambligola	Yerebailu			1991	11.20	30	14	1.50		2	3360	3
					TOTAL	**43.66**					**11**	**13224**	**123**
2	**ANANDAPURA RANGE**						**ACACIA PLANTAION NIL.**						
3	**ANAVATTI RANGE**						**ACACIA PLANTAION NIL.**						
4	**HOSANAGARA RANGE**												
1	Hosanagara	Jeni	-	-	1981	20.00	25	91	12.76		5	5000	1456
2	"	Gubbiga	-	-	1984	5.32	143	46	11.70		3	7608	515
3	"	Malavalli	-	-	1984	8.00	168	45	10.83		3	13440	811
4	"	Hebbylu	-	-	1985	11.00	89	52	11.11		3	9790	826
5	"	Goragodu	-	-	1985	10.00	95	55	18.21		4	9500	1452
6	"	Suntikoppa	-	-	1986	6.00	46	47	6.14		3	2760	102
7	"	Bettemallappa	-	-	1986	6.00	26	73	10.30		5	1560	239
8	"	Dombekoppa	-	-	1987	15.00	69	47	8.15		4	10350	510
9	"	H.Malavalli	-	-	1987	24.00	118	49	10.21		4	28320	1910
10	"	Kalikapura	-	-	1988	20.00	63	50	9.82		4	12600	861
11	"	Honnebylu	-	-	1988	10.00	37	56	11.72		4.63	3700	372
12	"	Parappamane	-	-	1988	40.00	42	55	9		3	16900	1227
13	"	Jambahalli	-	-	1989	10.00	97	36	7.12		3	9700	248
14	"	Majavana	-	-	1989	10.00	36	54	8.23		5	3600	237
15	"	Kargadi	-	-	1989	10.00	33	44	10.69		4	3300	193
16	"	Masagalli	-	-	1990	10.00	41	45	5.75		4	4100	130
17	"	Jeni	-	-	1990	16.00	176	57	10.61		6	28160	2654
18	"	Hebbylu	-	-	1990	20.00	142	94	18.51		9	28400	12805
19	"	Masagallu	-	-	1990	22.00	232	84	16.92		8	51040	16833
20	"	Anegadde	-	-	1990	11.00	82	46	10.76		5	9020	560
21	"	Honlagadde	-	-	1991	10.00	86	41	10.03		5	8600	406
22	"	Daredekhan	-	-	1992	10.00	84	24	4.61		3	8400	64
23	"	Harathal	-	-	1993	10.00	65	26	3.02		4	6500	38
24	"	Halugudde	-	-	1994	47.00	360	28	11		5	169012	4096
25	"	Shettybylu	-	-	1994	16.40	111	27	6		4	18122	212
26	"	Vasave	-	-	1995	10.00	105	28	7.39		6	10500	174
27	"	Vasave	-	-	1995	17.00	105	21	5.94		4	17850	131
					TOTAL	**404.72**					**120**	**497832**	**49062**
5	**KARGAL RANGE**												
1	Kargal	Kattinakare	-	-	1979	5.35	24	61	7.13		3	1284	96

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	Kargal	Biligar	-	-	1982	30.00	77	49	9.72		3	22950	1516
3	Kargal	Biligar	-	-	1982	8.00	68	73	12.50		4	5440	998
4	Kargal	Yerekatte	-	-	1983	15.00	50	46	8.14		3	7500	358
5	Kargal	Kattinakar	-	-	1983	20.00	60	50	9.25		3	11900	759
6	Kargal	Avalgodu			1984	0.80	51	52	10.60		3	408	32
7	Kargal	Tumri Kerekai			1985	20.00	106.50	43	10.60		3	21300	1171
8	Kargal	Avalgodu			1986	60.00	566	227	56.85		16	339600	2758946
9	"	"			1986	8.00	155	43	12.70		3	12400	810
10	"	"			1986	12.00	175	44	12.00		3	21000	1357
11	"	Muppane	XIX	7	1986	20.00	91	42	11.50		3	18200	1007
12	"	Nandodi			1986	10.00	57	38	8.10		3	5700	181
13	"	Harige Tumri			1986	20.00	81	49	9.80		3	16200	1038
14	"	Aurodi			1987	10.00	81	40	9.00		3	8100	326
15	"	Bilakandur			1988	8.00	75	41	9.53		3	6000	267
16	Kargal	Hemdegudda	-	-	1988	11.25	65	43	7.42		4	7313	281
17	Kargal	Kattinakara	-	-	1988	20.00	43	45	8.11		4	8600	392
18	Kargal	Kattinakara	-	-	1988	20.00	54	44	7.90		4	10800	466
19	Kargal	Channagonda	-	-	1988	21.00	92.5	44	9.39		4	19425	962
		-	-	-	1988	21.00	118	43	9.31		4	-	-
20	Kargal	Kamagar	-	-	1988	12.00	56	38	6.52		3	6720	176
21	Kargal	Kanapagar	-	-	1989	13.00	139	33	6.42		3	18070	358
22	"	Muppane			1989	10.00	109	39	10.50		4	10900	484
23	"	Backod			1989	20.00	70	45	10.50		4	14000	822
24	Kargal	Uligar	-	-	1990	15.83	73	32	6.16		3	11556	199
25	Kargal	Kamagar	-	-	1990	13.75	64	38	7.19		4	8800	254
26	Kargal	Kanapagar	-	-	1990	5.00	75	30	6.25		3	3750	59
27	Kargal	Belalmakki			1990	20.00	56	42	5.65		4	11200	310
28	Kargal	Upparamane	-	-	1991	5.00	78	36	7.36		4	3900	101
29	Kargal	Channagonda	-	-	1991	22.00	123.5	41	9.48		5	27170	1182
30	"	Yakkodi tumri			1991	10.00	39	42	7.94		5	3900	152
31	"	Tumri (Bala)			1991	10.00	33	35	6.96		4	3300	78
32	Kargal	Hosagadde	-	-	1992	10.00	76	35	8.35		4	7600	220
33	"	Balamakki			1992	12.00	30	38	7.00		5	3600	101
34	Kargal	Tumri Karur			1993	12.00	15	34	5.00		5	1800	29
35	Kargal	Hosakeregudda			1994	16.00	92	23	5.00		4	14720	110
36	"	Bakkigudda			1994	14.00	71.5	22	4.00		4	10010	52
37	Kargal	Tumri			1997	5.00	175	0	2.82		0	8750	0
38													
39	"	Tumri Brahman	XXII	8	1997	20.00	160.5	0	2.47		0	32100	0
40	Kargal	Kiruvase tumri			1998	10.00	246	0	1.99		0	24600	0
41	"	Hosakeregudda			1998	10.00	100	0	1.30		0	10000	0
42	"	Tumri Holebagil			1998	5.00	155	0	1.25		0	7750	0
43	"	Shiragale tumri			1998	20.00	13	8	2.38		4	2600	1
44	Kargal	Tumri Avade B-I			1999	10.00	215	0	0.62		0	21500	0
45	"	Tumri Avade B-II			1999	10.00	332	0	0.61		0	33200	0
					TOTAL	**650.98**					**148**	**845615**	**2775650**
6	**NAGARA RANGE**												
1	Nagara	Mothimane	-	-	1973	30.00	127.5	49	11.50	3 sp	2	38250	2877
2	"	Herete	-	-	1982	68.00	51.5	60	10.33		3	35020	3583
3	"	Belur	-	-	1982	12.00	68	59	7.00		3	8160	553
4	"	Baise	-	-	1983	24.00	77.5	48	10.00	2 sp	3	18600	1192
5	"	Herete	-	-	1983	30.00	70	53	10.33	3 sp	3	21000	1695
6	"	Mothimane	-	-	1983	15.00	105.5	49	11.50	2 sp	3	15825	1190
7	"	Baise	-	-	1984	10.00	153	43	9.00		3	15300	708
8	"	Baise	-	-	1984	14.00	155.5	53	14.50	2 sp	3	21770	2419
9	"	Mothimane	-	-	1984	8.00	165	44	10.00		3	13200	711
10	"	Somagodu	-	-	1984	9.00	148	44	9.00		3	13320	645
11	"	Chakra	-	-	1985	24.00	48	44	6.00		3	11520	372
12	"	Sampekatte	-	-	1985	5.00	55	69	13.00		5	2750	473
13	"	Kalasasi	-	-	1985	15.00	189	37	8.00		2	28350	863
14	"	K.B.Circle	-	-	1986	30.00	80.67	40	8.00	3 sp	3	24200	847
15	"	Alagodu	-	-	1986	10.00	121	31	9.00		2	12100	291
16	"	K.B.Circle	-	-	1987	9.60	127	33	7.00		3	12192	258
17	"	K.B.Circle	-	-	1987	10.40	127	28	6.00		2	13208	173
18	"	Gadineralu	-	-	1987	10.00	79	28	5.00		2	7900	86
19	"	Hosanadu	-	-	1988	20.00	104	53	11.50	2 sp	4	20800	1869
20	"	K.B.Circle	-	-	1989	15.00	115.5	37	8.50	2 sp	3	17325	561

1	2	3	4	5	6	7	8	9	10	11	12	13	14
21	"	Karimane	-	-	1989	15.00	85.5	49	8.50	2 sp	4	12825	728
22	"	Bellur	-	-	1989	5.00	49	51	12.00		5	2450	213
23	"	Alagodu	-	-	1989	19.00	118	40	12.50	2 sp	4	22800	1254
24	"	Gowrikere	-	-	1990	8.50	88	34	14.00		3	7480	337
25	"	Hilakunni	-	-	1990	12.50	90	43	9.00		4	11250	521
26	"	Sulagodu	-	-	1990	7.00	61	39	7.00		4	4270	126
27	"	Alagodu	-	-	1990	16.00	60	30	6.00		3	9600	144
28	"	Alagodu	-	-	1990	11.00	79	32	6.00		3	8690	148
29	"	Chakra	-	-	1990	10.00	95	33	5.00		3	9500	144
30	"	Ganjala	-	-	1990	8.00	116	36	10.00		4	9280	334
31	"	Siddlikuni	-	-	1990	5.50	139	37	12.00		4	7645	349
32	"	Bennangi	-	-	1990	18.50	175	34	12.00	2 sp	3	32375	1212
33	"	Chakra	-	-	1991	21.50	119	29	5.00		3	25585	299
34	"	Thotadabylu	-	-	1991	15.00	82.5	42	6.00	2 sp	5	12375	356
35	"	Jattimane	-	-	1991	15.00	126	33	9.00	2 sp	4	18900	515
36	"	Kumble	-	-	1991	19.00	101.5	33	11.50	2 sp	4	19285	672
37	"	Kergodu	-	-	1991	10.00	30	36	6.00		4	3000	65
38	"	Sacrebyle	-	-	1991	22.00	10.5	37	8.00	2 sp	4	2310	70
39	"	Nandikoppa	-	-	1991	21.00	125.5	31	8.00	2 sp	3	26355	563
40	"	Koteshiru	-	-	1991	20.00	140	37	11.00	2 sp	4	28000	1141
41	"	Hebburuli	-	-	1993	10.00	90	27	5.00		4	9000	91
42	"	Brahmanavada	-	-	1993	14.40	243	21	4.00	2 sp	3	34992	172
43	"	Ginihallu	-	-	1993	10.00	144	29	6.00		4	14400	202
44	"	Baise	-	-	1994	21.00	180	40	9.00		7	37800	1514
45	"	Brahmanavada	-	-	1994	4.00	290	19	4.00		3	11600	47
46	"	Bappanamane	-	-	1994	10.00	252	34	6.00		6	25200	486
47	"	Baise	-	-	1995	8.00	40	23	3.00		5	3200	14
48	"	Mothimane	-	-	1995	30.00	93	22	4.00		4	27900	150
49	"	Mothimane	-	-	1995	15.00	103	29	5.00	2 sp	6	15450	174
50	"	Kalasanke	-	-	1998	6.50	155	29	9.00		15	10075	212
					TOTAL	**777.40**					**189**	**814382**	**33621**
7	**SAGARA RANGE**												
1	Sagar	Kerekoppa	-	-	1983	6.00	51	57	14.00		3	3060	387
2	Sagar	Kerekoppa	-	-	1983	15.00	69	63	17.17		4	10350	1961
3	Sagar	Manjinakan	-	-	1984	18.00	38	62	12.47		4	6840	919
4	Sagar	Nadakalasa	-	-	1984	20.00	24	81	13.04	2 sp	5	4800	1005
5	Sagar	Bommathi	-	-	1985	11.00	69	52	14.07		3	7590	806
6	Sagar	Bheemaneri	-	-	1985	35.50	25.5	68	16.17	2 sp	5	9053	1884
7	Sagar	Keladi	-	-	1986	15.00	36	79	19.31		6	5400	1812
8	Sagar	Keladi	-	-	1986	35.00	37.333	76	16.81	2 sp	5	13067	3531
9	Sagar	Bheemaneri	-	-	1986	45.00	29	75	16.37	2 sp	5	13050	3338
10	Sagar	Hullathi	-	-	1987	15.00	22	54	10.39	2 sp	4	3300	273
11	Sagar	Mankalale	-	-	1988	8.00	27	60	14.33		5	2160	307
12	Sagar	Haituru	-	-	1988	20.00	35.75	55	12.06	2 sp	5	8300	793
13	Sagar	Hosahally	-	-	1988	12.50	69	45	15.31		4	8625	754
14													
15	Sagar	Keladi	-	-	1989	4.00	10	89	16.50		8	400	145
16	Sagar	Dhamba	-	-	1989	8.00	40	48	9.07		4	3200	182
17	Sagar	Hiremane	-	-	1989	19.00	45	43	8.83		4	8550	385
18	Sagar	Bachgara	-	-	1989	6.00	89	42	7.65		4	5340	196
19	Sagar	Talaguppa	-	-	1989	12.00	60	63	19.41		6	7200	1534
20	Sagar	Talaguppa	-	-	1989	23.00	71	55	18.36	2 sp	5	16330	2496
21	Sagar	Talavata	-	-	1989	10.00	22	49	9.70		4	2200	143
22	Sagar	Malladimba	-	-	1989	10.00	49	46	9.65		4	4900	282
23	Sagar	Manjinakan	-	-	1989	5.00	19	23	3.47		2	950	5
24	Sagar	Bachgara	-	-	1989	13.00	40	32	7.65		3	5200	111
25	Sagar	Hosally	-	-	1989	12.00	46	45	10.36		4	5520	326
26	Sagar	Giligara	-	-	1989	18.50	74	42	13.96	2 sp	4	13690	929
27	Sagar	Hiremane	-	-	1989	8.00	27	37	5.89		3	2160	49
28	Sagar	Hiremane	-	-	1989	12.00	24	44	9.29		4	2880	145
29	Sagar	Bachgara	-	-	1989	15.00	52	35	12.83		3	7800	332
30	Sagar	Sasaravally	-	-	1989	7.00	45	45	14.25		4	3150	253
31	Sagar	Sasaravally	-	-	1989	11.00	38	50	14.38		5	4180	421
32	Sagar	Talaguppa	-	-	1989	8.00	43	68	14.94		6	3440	658
33	Sagar	Sasaravally	-	-	1989	12.00	61	42	14.87		4	7320	546

1	2	3	4	5	6	7	8	9	10	11	12	13	14
34	Sagar	Kalkoppa (Barur)	-	-	1989	9.00	50	43	12.09		4	4500	283
35	Sagar	Hiremane	-	-	1989	19.00	30	37	11.38	2 sp	4	9880	725
36	Sagar	Talavata	-	-	1989	15.00	25	50	15.61	2 sp	5	3750	404
37	Sagar	Kanale	-	-	1990	10.00	79	28	8.56		3	7900	144
38	Sagar	Brahamanekalase	-	-	1990	10.00	25	59	11.88		6	2500	292
39	Sagar	Lavigere	-	-	1990	20.00	53	43	11.90	2 sp	4	10600	634
40	Sagar	Talawata	-	-	1990	13.00	61	33	9.29		3	7930	229
41	Sagar	Chipli	-	-	1990	4.00	42	55	15.40		6	1680	221
42	Sagar	Harogoppa	-	-	1990	10.50	15	53	4.30		5	1575	53
43	Sagar	Bommathi	-	-	1990	10.00	34	48	12.35		5	3400	273
44	Sagar	Keladi	-	-	1991	5.00	33	56	7.87		6	1650	114
45	Sagar	Hosnagara	-	-	1991	13.00	40	51	13.26		6	5200	500
46	Sagar	Keladi	-	-	1991	5.00	30	52	11.26		6	1500	127
47	Sagar	Mankalale	-	-	1991	13.00	24	51	10.46		6	3120	234
48	Sagar	Ambigar	-	-	1994	9.00	106	25	8.29		4	9540	139
49	Sagar	Galigara	-	-	1994	7.50	216	22	7.45		4	16200	166
50	Sagar	Mulla	-	-	1995	10.00	26	59	13.82		12	2600	352
51	Sagar	Hosally	-	-	1995	10.00	16	22	5.50		4	1600	12
52	Sagar	Linganamakki	-	-	1995	20.00	60	15	3.00	2 sp	3	12000	23
53	Sagar	Kuntagodu	-	-	1995	20.00	20	22	5.40	2 sp	4	4000	29
54	Sagar	Hirenallur	-	-	1997	10.00	86	15	2.50		5	8600	13
55	Sagar	Jannehaklu	-	-	1997	11.00	77	57	4.30		19	8470	330
56	Sagar	Jannehaklu	-	-	1997	12.00	259	15	2.50		5	31080	49
57	Sagar	Kanale	-	-	1997	10.00	16	15	2.50		5	1600	3
58	Sagar	Jannehaklu	-	-	1997	12.00	197	15	1.00		5	23640	15
59	Sagar	K.Manchale	-	-	1998	10.00	213	15	1.50		8	21300	20
60	Sagar	Mulla	-	-	1998	10.00	238	15	1.50		8	23800	22
61	Sagar	Sydur	-	-	1998	10.00	221	15	1.50		8	22100	21
62	Sagar	Kanale	-	-	1998	10.00	193	15	1.50		8	19300	18
63	Sagar	Bheemneri	-	-	1998	12.00	228	15	1.50		8	27360	26
64	Sagar	Bheemneri	-	-	1998	10.00	240	15	1.50	2 sp	8	24000	23
					TOTAL	**819.50**							
8	**SHIKARIPURA RANGE**												
1	"	Madgaranhalli	C&D	Gomal	1998	10.00	150	8	7.00		4	**15000**	**19**
2	"	Kavaspura	Gomal	-	1998	10.00	50	16	7.74		8	**5000**	**28**
					TOTAL	**20.00**					**12**	**20000**	**46**
9	**SHIRALKOPPA RANGE**		**ACACIA PLANTAION NIL.**										
10	**SORABA RANGE**												
1	Sorab	Tyavarehalli	-	-	1985	4.00	59	58	12.50		4	2360	276
2	Sorab	Tyavarehalli	-	-	1985	10.00	75	56	13.50		4	7500	883
3	Sorab	Tyavarehalli	-	-	1985	14.00	38	76	13.75		5	5320	1175
4	Sorab	Kuduregani	II	2	1986	35.00	32	78	8.75	4 sp	6	11200	1658
5	Sorab	"	"	"	"	0.00	36	95	12.50		-	-	-
6	Sorab	"	"	"	"	0.00	38	93	12.50		-	-	-
7	Sorab	Chitrathihalli	III	1	1986	14.00	31	64	13.75	2 sp	5	4340	680
8	Sorab	Kuppe	II	-	1987	5.00	52	68	10.50		5	2600	351
9	Sorab	Tandige	-	-	1988	15.00	33	71	12.75	2 sp	6	4950	885
10	Sorab	Badadabylu 1-Block	II	-	1989	25.00	43	48	10.00	3 sp	4	10750	689
11	Sorab	Badadabylu Block-2	-	-	1989	15.00	30	58	9.50	2 sp	5	4500	400
12	Sorab	Mudaguppe	-	-	1990	35.00	43	68	9.50		7	15050	1838
13	Sorab	Bilagi	-	-	1990	10.00	46	68	7.50		7	4600	444
14	Sorab	Kasaraguppe	-	-	1991	20.00	35	69	14.00	2 sp	8	7000	1297
					TOTAL	**202**					**65**	**80170**	**10576**
					G.TOTAL	**2897.26**					**545**	**2271223**	**2869078**
		Forest & Non Forest Total				**3624.26**					**830**	**2642764**	**2900697**

Annexure 15

TEAK PLANTATIONS IN SAGAR DIVISION

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
	FOREST AREAS																			
1	**AMBLIGOLA RANGE**																			
	Teak Plantations :-																			
1	Ambligola	Hariharapura MF	XI	14	1931	2.23	Teak	22	69	9.25		1.00	491	220	60	5.32	406	-186	0	
							Hunal	7	70	7.50		1.01	156		16					
							J.W	1	-	-		-	-		-					
													647		**76**					
2	Ambligola	Hariharapura MF	XI	14	1932	5.66	Teak	21	109	11.75		1.60	1189	210	461	7.61	198	12	66	**2001**
							Hunal	2	50	4.50		0.74	113		4					
													1302		**465**					
3	Ambligola	KBSF	XI	23	1936	12.14	Teak	27	80	12.20		1.25	3278	270	712	5.95	324	-54	0	
							Beete	1	69	12.00		1.08	121		19					
							Hunal	2	81	14.25		1.27	243		63					
							J.W	9	-	-		-	-		-					
													3642		**794**					
4	Ambligola	KBSF	XI	23	1937	12.14	Teak	27	79	14.25		1.25	3278	270	811	5.90	331	-61	0	
							Hunal	3	67	10.75		1.06	364		49					
							J.W	1	96	10.50		1.52	121		33					
													3763		**892**					
5	Ambligola	Hariharapura MF	XI	14	1938	12.14	Teak	22	64	9.75		1.03	2671	220	297	5.04	453	-233	0	
							Hunal	8	45	7.50		0.73	971		41					
							Nandi	1	82	10.50		1.32	121		24					
							J.W	3	-	-		-	-		-					
													3763		**361**					
6	Ambligola	Hariharapura MF	XI	14	1939	4.04	Teak	59	71	11.20		1.16	**2384**	590	**374**	5.44	389	201	812	2001
7	Ambligola	KBSF	XI	23	1958	16.18	Teak	33	55	7.90	2 S.P	1.26	4692	290	312	4.52	562	-272	0	
							Mathi	1	26	2.00		0.62	162		1					
							Hunalu	1	22	2.50		0.89	405		1					
							J.W	2	-	-		-	-		-					
8	"	"	"	"	"	"	Teak	25	51	7.75		-	-		-					
							Nandi	2	78	10.25		1.86	324		56					
							Hunal	4	53	4.75		-	-		-					
							J.W	7	-	-		-	-		-					
													5582		**370**					
9	Ambligola	KBSF	XI	23	1959	8.90	Teak	52	52	8.75		1.27	4628	520	305	4.35	608	-88	0	

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Beete	2	101	12.00		2.46	178		61					
							Nandi	1	33	1.50		0.80	89		0					
							Hunal	4	45	2.00		1.10	356		4					
							J.W	1	-	-		-	-		-					
													5251		**370**					
10	Ambligola	Dam hosur(KBSF)	XI	23	1960	30.35	Teak	42	68	8.20	3 S.P	1.73	13860	457	1461	5.27	415	42	1274	2001
							Hunal	6	35	2.00		1.75	809		6					
							J.W	1	-	-		-	-		-					
11	"	"	"	"	"	"	Teak	51	68	8.00		-	-		-					
							Hunal	1	86	8.75		-	-		-					
12	"	"	"	"	"	"	Teak	44	71	8.25		-	-		-					
							Hunal	1	89	10.00		-	-		-					
							Nandi	1	31	2.75		0.78	304		2					
							J.W	1	-	-		-	-		-					
													14973		**1469**					
13	Ambligola	KBSF	XI	23	1961	10.00	Teak	36	46	4.25		1.18	3600	360	90	4.01	717	-357	0	
							Hunal	12	42	4.20		1.08	1200		25					
							J.W	6	-	-		-	-		-					
							Eucalyptus	3	61	12.25		1.56	300		38					
													5100		**153**					
14	Ambligola	KBSF	XI	23	1963	10.00	Teak	36	60	5.01		1.62	3600	360	181	4.81	497	-137	0	
							Hunal	10	42	4.25		1.14	1000		21					
							J.W	8	-	-		-	-		-					
													4600		**201**					
15	Ambligola	KBSF	XI	24	1964	24.28	Teak	51	50	6.35	2 S.P	1.57	12140	500	536	4.21	650	-150	0	
							Hunal	2	36	3.00		1.04	1214		13					
							J.W	2	-	-		-	-		-					
16	"	"	"	"	"	"	Teak	49	64	7.20		-	-		-					
							Hunal	8	39	3.50		-	-		-					
							Nandi	2	46	4.00		1.28	486		11					
							J.W	2	-	-		-	-		-					
													13840		**560**					
17	Ambligola	Belandur SF	XII	10	1964	40.46	Teak	18	60	11.50	4 S.P	1.41	5766	143	664	4.81	497	-355	0	
							J.W	8	-	-		-	-		-					
18	"	"	"	"	"	"	Teak	7	48	6.7		-	-		-					
							Beete	1	114	13.50		3.07	202		99					
							Mathi	5	67	6.20		2.59	1315		102					
							Hunal	4	55	5.75		1.53	1618		78					
							J.W	5	-	-		-	-		-					
19	"	"	"	"	"	"	Teak	22	53	6.10		-	-		-					
							Beete	1	107	10.00		-	-		-					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Mathi	6	81	7.75		-	-		-					
							J.W	2	-	-		-	-		-					
20	"	"	"	"	"	"	Teak	37	52	9.75		-	-		-					
							Mathi	2	132	14.00		-	-		-					
							J.W	6	-	-		-	-		-					
													8901		**943**					
21	Ambligola	KBSF	XI	24	1965	20.00	Teak	49	56	6.25	2 S.P	1.77	8500	425	463	4.58	549	-124	0	
							Hunal	8	38	4.75		1.17	1000		19					
							J.W	1	-	-		-	-		-					
22	"	"	"	"	"	"	Teak	36	68	7.55		-	-		-					
							Hunal	2	44	6.20		-	-		-					
							J.W	8	-	-		-	-		-					
													9500		**482**					
23	Ambligola	KBSF	XI	8	1965	64.77	Teak	4	61	8.60	6 S.P	1.29	17164	265	1527	4.87	486	-221	0	
							Hunal	1	88	12.50		1.68	3562		959					
							Nandi	6	77	11.25		2.09	2159		400					
24	"	"	"	"	"	"	Teak	45	48	7.45		-	-		-					
							Hunal	16	56	7.70		-	-		-					
25	"	"	"	"	"	"	Teak	47	57	9.20		-	-		-					
							Hunal	1	50	9.50		-	-		-					
26	"	"	"	"	"	"	Teak	51	68	11.70		-	-		-					
27	"	"	"	"	"	"	Teak	35	49	9.65		-	-		-					
							Hunal	8	54	8.75		-	-		-					
							Nandi	1	68	9.00		-	-		-					
							Eucalyptus	2	74	13.00		2.11	1295		256					
							J.W	3	-	-		-	-		-					
28	"	"	"	"	"	"	Teak	24	45	4.75		-	-		-					
							Nandi	13	74	8.25		-	-		-					
							Hunal	7	46	7.25		-	-		-					
							Dindiga	3	36	5.20		1.03	1943		36					
													26124		**3180**					
29	Ambligola	KBSF	XI	25	1966	40.00	Teak	63	53	8.25	4 S.P	1.39	24900	623	1605	4.41	592	30	1216	
							Hunal	17	64	7.75		1.32	4000		353					
							Nandi	1	66	10.00		1.94	400		48					
							J.W	2	-	-		-	-		-					
30	"	"	"	"	"	"	Teak	65	49	7.75		-	-		-					
							Hunal	9	41	5.50		-	-		-					
							J.W	2	-	-		-	-		-					
31	"	"	"	"	"	"	Teak	60	44	7.10		-	-		-					
							Hunal	13	46	5.65		-	-		-					
							J.W	-	-	-		-	-		-					
32	"	"	"	"	"	"	Teak	61	44	7.90		-	-		-					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Hunal	1	29	3.00		-	-		-					
							J.W	4	-	-		-	-		-					
													29300		**2006**					
33	Ambligola	KBSF	XI	8	1966	12.95	Teak	33	62	10.25		1.82	4274	330	468	4.92	475	-145	0	
							Hunal	6	54	10.50		1.59	777		66					
													5051		**534**					
34	Ambligola	KBSF	XI	8	1966	38.00	Teak	30	54	9.70	4 S.P	1.69	18620	490	1465	4.46	577	-87	0	
							Hunal	6	49	8.50		1.44	3895		221					
							Nandi	2	53	7.75		1.88	4560		276					
							Eucalyptus	17	45	12.00		1.32	6460		437					
							Dindiga	28	52	7.73		1.53	10640		618					
35	"	"	"	"	"	"	Teak	50	56	10.75		-	-		-					
							Hunal	18	43	9.25		-	-		-					
							Nandi	3	64	12.00		-	-		-					
							J.W	4	-	-		-	-		-					
36	"	"	"	"	"	"	Teak	77	54	11.75		-	-		-					
							Hunal	3	43	4.20		-	-		-					
37	"	"	"	"	"	"	Teak	39	66	9.45		-	-		-					
							Hunal	14	61	9.75		-	-		-					
							Nandi	4	75	10.75		-	-		-					
							Mathi	1	32	4.50		0.94	380		5					
							J.W	12	-	-		-	-		-					
													44555		**3022**					
38	Ambligola	KBSF	XI	25	1967	60.00	Teak	51	65	11.00	6 S.P	1.83	34700	578	4485	5.09	443	135	8113	2002
							Hunal	2	37	3.90		1.60	3300		49					
							J.W	3	-	-		-	-		-					
39	"	"	"	"	"	"	Teak	48	73	8.95		-	-		-					
							Hunal	4	49	4.75		-	-		-					
							J.W	1	-	-		-	-		-					
40	"	"	"	"	"	"	Teak	47	61	8.20		-	-		-					
							Hunal	7	44	5.00		-	-		-					
							J.W	7	-	-		-	-		-					
41	"	"	"	"	"	"	Teak	64	56	8.10		-	-		-					
							Hunal	6	46	7.50		-	-		-					
42	"	"	"	"	"	"	Teak	44	63	8.20		-	-		-					
							Hunal	2	92	11.50		-	-		-					
43	"	"	"	"	"	"	Teak	93	44	8.25		-	-		-					
							Hunal	12	50	6.75		-	-		-					
							Nandi	1	24	1.50		0.73	600		1					
							J.W	1	-	-		-	-		-					
													38600		**4535**					
44	Ambligola	KBSF	XI	4	1967	60.72	Teak	7	64	7.00	6 S.P	1.75	19532	322	1557	5.03	455	-133	0	

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Nandi	12	49	6.25		2.18	1720		72					
							Hunal	2	27	2.00		1.30	3947		16					
							Eucalyptus	2	102	16.00		3.09	1214		562					
							J.W	10	-	-		-	-		-					
45	"	"	"	"	"	"	Teak	29	68	12.10		-	-		-					
							Beete	1	100	11.00		2.44	202		62					
46	"	"	"	"	"	"	Teak	27	52	8.50		-	-		-					
							Hunal	14	39	4.75		-	-		-					
							Dindiga	1	32	3.50		0.97	607		6					
47	"	"	"	"	"	"	Teak	40	63	10.50		-	-		-					
							Hunal	14	50	9.00		-	-		-					
							Nandi	3	96	13.50		-	-		-					
							J.W	4	-	-		-	-		-					
48	"	"	"	"	"	"	Teak	27	43	7.50		-	-		-					
							Hunal	9	56	8.50		-	-		-					
							Nandi	2	71	9.25		-	-		-					
							J.W	4	-	-		-	-		-					
49	"	"	"	"	"	"	Teak	63	56	10.75		-	-		-					
							Beete	1	61	10.50		-	-		-					
							Mathi	2	51	9.25		1.55	1214		81					
													28437		**2356**					
50	Ambligola	KBSF	XI	8	1968	6.87	Teak	38	64	9.10		2.00	2611	380	271	5.04	453	-73	0	
							Hunal	8	68	8.90		2.13	550		63					
							J.W	2	-	-		-	-		-					
													3160		**333**					
51	Ambligola	KBSF	XI	25	1969	34.39	Teak	72	48	6.75	3 S.P	1.55	22927	667	992	4.12	677	-11	0	
							Hunal	29	48	6.50		1.32	7566		315					
							J.W	4	-	-		-	-		-					
52	"	"	"	"	"	"	Teak	73	52	8.00		-	-		-					
							Hunal	10	34	4.75		-	-		-					
53	"	"	"	"	"	"	Teak	55	45	6.75		-	-		-					
							Hunal	27	41	5.75		-	-		-					
							Nandi	2	48	7.75		1.55	688		34					
							J.W	7	-	-		-	-		-					
													31180		**1341**					
54	Ambligola	KBSF	XI	7	1971	20.00	Teak	71	51	8.50	2 S.P	1.67	12200	610	750	4.29	624	-14	0	
55	"	"	"	"	"	"	Teak	51	46	7.25		-	-		-					
							Hunal	4	52	6.25		1.79	800		38					
													13000		**788**					
56	Ambligola	KBSF	XI	23	1972	52.00	Teak	56	52	7.80	5 S.P	1.98	27768	534	1629	4.35	608	-74	0	
							Hunal	4	28	3.90		1.14	936		8					
							J.W	3	-	-		-	-		-					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
57	"	"	"	"	"	"	Teak	49	36	5.75		-	-		-					
							Beete	1	29	4.00		1.04	520		5					
							Hunal	5	36	4.50		-	-		-					
							J.W	7	-	-		-	-		-					
58	"	"	"	"	"	"	Teak	32	67	8.00		-	-		-					
							Tadasal	1	81	12.00		2.89	520		114					
59	"	"	"	"	"	"	Teak	60	67	11.00		-	-		-					
60	"	"	"	"	"	"	Teak	70	56	7.60		-	-		-					
													29744		**1755**					
61	Ambligola	KBSF	XI	7	1972	18.00	Teak	52	51	7.50	2 S.P	2.27	7200	400	391	4.29	624	-224	0	
							Hunal	10	42	7.25		2.01	1260		45					
							Nandi	2	57	7.50		2.04	360		24					
							J.W	2	-	-		-	-		-					
62	"	"	"	"	"	"	Teak	28	76	10.75		-	-		-					
							Hunal	4	71	10.25		-	-		-					
													8820		**460**					
63	Ambligola	KBSF	XI	8	1972	40.45	Teak	84	49	9.50	4 S.P	1.92	24169	598	1533	4.18	659	-61	0	
							Hunal	27	41	4.70		2.06	3438		76					
							Nandi	1	62	12.00		2.13	405		52					
64	"	"	"	"	"	"	Teak	37	64	9.75		-	-		-					
							Hunal	3	51	5.60		-	-		-					
							Nandi	1	82	12.00		-	-		-					
65	"	"	"	"	"	"	Teak	62	53	9.25		-	-		-					
							Nandi	1	38	4.00		-	-		-					
66	"	"	"	"	"	"	Teak	56	49	7.75		-	-		-					
							Nandi	2	79	7.80		-	-		-					
							Hunal	4	81	9.20		-	-		-					
													28012		**1660**					
67	Ambligola	KBSF	XI	22	1973	38.40	Teak	70	32	3.00	2 S.P	1.33	23232	605	198	3.20	1120	-515	0	
							Hunal	1	28	2.50		1.00	2688		15					
							J.W	2	-	-		-	-		-					
68	"	"	"	"	"	"	Teak	51	40	4.50		-	-		-					
							Hunal	13	26	2.50		-	-		-					
							J.W	1	-	-		-	-		-					
													25920		**213**					
69	Ambligola	KBSF	XI	22	1975	38.40	Teak	55	31	3.75	2 S.P	1.28	17088	445	171	3.15	1161	-716	0	
							Hunal	8	32	3.00		1.30	2496		21					
							Mathi	2	32	3.50		1.38	1152		11					
							Nandi	1	49	5.00		1.96	384		13					
							J.W	16	-	-		-	-		-					
70	"	"	"	"	"	"	Teak	34	33	3.25		-	-		-					
							Hunalu	5	33	3.50		-	-		-					
							Mathi	4	37	4.75		-	-		-					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							J.W	10	-	-		-	-		-					
													21120		**217**					
71	Ambligola	KBSF	XI	22	1976	27.44	Teak	94	39	5.55	3 S.P	1.52	19574	713	459	3.61	885	-171	0	
							Hunal	30	41	5.10		1.60	6403		153					
							J.W	9	-	-		-	-		-					
72	"	"	"	"	"	"	Teak	53	33	4.20		-	-		-					
							Hunal	13	42	3.75		-	-		-					
							Mathi	1	23	3.25		0.96	274		1					
							J.W	7	-	-		-	-		-					
73	"	"	"	"	"	"	Teak	67	38	5.75		-	-		-					
							Hunal	27	32	5.25		-	-		-					
							J.W	6	-	-		-	-		-					
													26251		**613**					
74	Ambligola	KBSF	XI	26	1977	27.20	Teak	110	41	5.25	3 S.P	1.52	25568	940	627	3.72	831	109	2962	2001
							Hunal	7	31	3.50		1.26	7888		74					
							J.W	1	-	-		-	-		-					
75	"	"	"	"	"	"	Teak	108	32	4.20		-	-		-					
							Hunal	23	26	3.75		-	-		-					
							J.W	1	-	-		-	-		-					
76	"	"	"	"	"	"	Teak	64	32	4.25		-	-		-					
							Hunal	57	30	4.00		-	-		-					
							Honne	2	27	2.25		1.17	544		2					
							Beete	1	24	2.50		1.04	272		1					
							J.W	30	-	-		-	-		-					
													34272		**705**					
77	Ambligola	KBSF	XI	25	1978	26.00	Teak	130	38	7.20	3 S.P	1.70	31287	1203	905	3.55	914	290	7534	2003
							Hunal	12	52	8.00		2.14	3727		224					
78	"	"	"	"	"	"	Teak	111	36	6.75		-	-		-					
							Hunal	13	38	8.00		-	-		-					
							J.W	2	-	-		-	-		-					
79	"	"	"	"	"	"	Teak	120	38	6.75		-	-		-					
							Hunal	18	51	8.50		-	-		-					
							Nandi	1	49	9.00		2.23	260		16					
							J.W	1	-	-		-	-		-					
													35273		**1144**					
80	Ambligola	KBSF	XI	26	1979	27.02	Teak	126	47	6.20	3 S.P	2.05	33685	1247	1283	4.06	696	550	14866	2004
							Hunal	18	32	3.90		1.78	3242		36					2005
							J.W	4	-	-		-	-		-					
81	"	"	"	"	"	"	Teak	121	44	8.20		-	-		-					
							Hunal	4	32	7.50		-	-		-					
							J.W	1	-	-		-	-		-					
82	"	"	"	"	"	"	Teak	127	38	7.50		-	-		-					
							Hunal	14	48	7.20		-	-		-					

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													36927		**1319**					
83	Ambligola	KBSF	XI	26	1980	27.06	Teak	93	40	5.15	3 S.P	1.93	30217	1117	692	3.66	857	259	7018	2006
							Hunal	49	38	4.25		1.90	6675		114					
							Honne	1	26	6.00		1.30	271		3					
							J.W	4	-	-		-	-		-					
84	"	"	"	"	"	"	Teak	124	43	7.75		-	-		-					
							Hunal	9	38	4.20		-	-		-					
							J.W	1	-	-		-	-		-					
85	"	"	"	"	"	"	Teak	118	33	4.20		-	-		-					
							Hunal	16	38	4.75		-	-		-					
							J.W	2	-	-		-	-		-					
													37162		**809**					
86	Ambligola	KBSF	XI	26	1981	31.02	Teak	128	51	6.20	3 S.P	2.04	35880	1157	1609	4.29	624	533	16519	2007
							Hunal	18	46	4.80		2.25	6928		196					2008
							J.W	-	-	-		-	-		-					
87	"	"	"	"	"	"	Teak	93	34	6.25		-	-		-					
							Hunal	24	44	5.20		-	-		-					
							Nandi	6	60	5.00		3.16	1861		93					
							Beete	1	20	3.00		1.05	310		1					
							J.W	13	-	-		-	-		-					
88	"	"	"	"	"	"	Teak	126	31	3.75		-	-		-					
							Hunal	25	38	4.25		-	-		-					
							J.W	3	-	-		-	-		-					
													44979		**1899**					
89	Ambligola	Belandur SF	XII	11	1981	20.00	Teak	33	29	3.75	2 S.P	2.24	5400	270	47	3.03	1251	-981	0	
							Hunal	1	60	6.25		4.05	300		19					
							Nandi	1	38	3.50		4.00	200		3					
							J.W	28	41	3.00		2.16	5600		79					
90	"	"	"	"	"	"	Teak	21	56	9.75		-	-		-					
							Hunal	2	94	11.00		-	-		-					
							Nandi	1	114	13.00		-	-		-					
							J.W	13	-	-		-	-		-					
													11500		**147**					
91	Ambligola	KBSF	XI	26	1982	28.00	Teak	92	43	5.25	3 S.P	1.96	30147	1077	814	3.83	782	294	8245	2009
							Hunal	21	42	5.50		2.11	7280		196					
92	"	"	"	"	"	"	Teak	82	31	4.75		-	-		-					
							Hunal	46	41	6.75		-	-		-					
							J.W	4	-	-		-	-		-					
93	"	"	"	"	"	"	Teak	149	32	4.10		-	-		-					
							Hunal	11	31	4.75		-	-		-					
							J.W	5	-	-		-	-		-					
													37427		**1010**					

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94	Ambligola	KBSF	XI	27	1983	26.00	Teak	116	38	5.20	3 S.P	2.04	25913	997	541	3.55	914	83	2161	2001
							Hunal	11	36	4.50		2.02	6067		98					
							Honne	1	33	3.25		1.94	260		3					
							J.W	9	-	-		-	-		-					
95	"	"	"	"	"	"	Teak	65	30	3.00		-	-		-					
							Hunal	40	33	4.25		-	-		-					
							J.W	5	-	-		-	-		-					
96	"	"	"	"	"	"	Teak	118	36	4.00		-	-		-					
							Hunal	19	34	4.25		-	-		-					
							J.W	5	-	-		-	-		-					
													32240		**642**					
97	Ambligola	Belandur SF	XII	11	1983	42.46	Teak	32	44	6.75	4 S.P	2.85	13551	319	492	3.89	759	-440	0	
							J.W	10	-	-		-	-		-					
98	"	"	"	"	"	"	Teak	36	56	6.75		-	-		-					
							Hunal	4	46	3.75		2.53	945		21					
							J.W	3	-	-		-	-		-					
99	"	"	"	"	"	"	Teak	36	47	6.60		-	-		-					
							Nandi	2	60	7.50		3.53	840		63					
							Hunal	5	40	6.50		-	-		-					
							J.W	14	38	3.00		2.21	2731		33					
100	"	"	"	"	"	"	Teak	25	47	5.45		-	-		-					
							Mathi	2	30	3.00		1.76	840		6					
							J.W	12	37	3.25		-	-		-					
													18909		**616**					
101	Ambligola	KBSF	XI	27	1984	20.00	Teak	106	32	4.25	2 S.P	1.94	18800	940	228	3.20	1120	-180	0	
							Hunal	36	29	3.50		1.78	6400		52					
102	"	"	"	"	"	"	Teak	82	30	4.10		-	-		-					
							Hunal	28	28	3.75		-	-		-					
							J.W	2	-	-		-	-		-					
													25200		**280**					
				TOTAL		**1035.67**						**64.67**	**756411**		**39097**		**25184**	**-3525**	**70785**	
												2								
2	**ANANDAPURA RANGE**																			
1	Anandapura	Malandur SF	XIII	15	1909	36.00	Teak	27	125	1.25	3 SP	1.39	8760	243	6090	8.53	158	85	3071	2001
							Muthaga	8	122	1.22		1.34	2880		1788					
							Thare	2	116	1.16		1.25	480		305					
2	Anandapura	"	"	"	"	"	Teak	20	125	1.25		-	-		-					
							Hunal	1	98	0.98		1.34	360		87					
							J-Wood	3	100	1		1.10	1080		451					
							Mathi	1	90	0.9		0.80	240		81					

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							Thare	1	86	0.86		-	-		-					
3	Anandapura	"	"	"	"	"	Teak	26	130	1.3		-	-		-					
							Thare	1	140	1.4		-	-		-					
							Jambe	1	150	1.5		0.69	240		300					
							Balavari	1	129	1.29		0.66	240		167					
													14280		**9269**					
4	Anandapura	Tuppur MF	XIV	11	1923	6.00	Teak	39	96	0.96		1.25	2340	390	870	6.87	244	146	878	2001
							Beete	1	39	0.39		0.51	60		2					
							Hunalu	1	52	0.52		0.68	60		4					
													2460		**876**					
5	Anandapura	K.B.S.F. Shimoga Road	XI	34	1931	2.54	Teak	34	90	0.9		1.30	864	340	253	6.53	270	70	178	2001
							Hunal	3	50	0.5		0.72	76		4					
							Nandi	9	100	1		1.45	229		76					
							Beete	2	60	0.6		0.87	51		5					
													1219		**338**					
6	Anandapura	K.B.S.F. Shimoga Road	XI	34	1932	3.30	Teak	33	89	0.89		1.31	1089	330	288	6.47	275	55	182	2001
							Nandi	1	80	0.8		1.18	33		7					
							Beete	1	74	0.74		1.09	33		5					
							Hunal	11	55	0.55		0.81	363		15					
													1518		**315**					
7	Anandapura	K.B.S.F	XI	34	1939	4.22	Teak	32	89	0.89		1.46	1350	320	422	6.47	275	45	191	2001
							Hunal	3	58	0.58		0.95	127		10					
													1477		**432**					
8	Anandapura	K.B.S.F. Shimoga Road	XI	34	1940	4.16	Teak	38	90	0.9		1.50	1581	380	499	6.53	270	110	458	2001
							Hunal	8	37	0.37		0.62	333		8					
													1914		**506**					
9	Anandapura	K.B.S.F. Shimoga Road	XI	34	1941	4.16	Teak	26	80	0.8		1.36	1082	260	212	5.95	324	-64	0	
							Hunal	14	76	0.76		1.29	582		94					
							Mathi	6	60	0.6		1.02	250		25					
							Nandi	4	45	0.45		0.76	166		6					
													2080		**336**					
10	Anandapura	Gilalgundi SF	XIV	5	1956	50.50	Teak	22	72	0.72	4 SP	1.89	18685	370	3906	5.50	381	-11	0	
							Nandi	5	62	0.62		1.33	1136		97					
							Hunalu	8	72	0.72		1.85	1515		207					
11	Anandapura	"	"	"	"	"	Teak	24	89	0.89		-	-		-					

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12	Anandapura	"	"	"	"	"	Teak	30	82	0.82		-	-		-					
							Hunalu	4	91	0.91		-	-		-					
							Nandi	4	55	0.55		-	-		-					
13	Anandapura	"	"	"	"	"	Teak	20	89	0.89		-	-		-					
							Beete	2	55	0.55		1.25	110		9					
							J.W	18	73	0.73		1.66	990		161					
													22436		**4380**					
14	Anandapura	Kaspadi	XIII	5	1958	8.09	Teak	53	70	0.7		1.67	4288	530	613	5.38	397	133	1074	2001
							Hunal	11	37	0.37		0.886	890		22					
													5178		**636**					
15	Anandapura	Kaspadi	XIII	5	1960	10.92	Teak	33	60	0.60		1.50	3604	330	289	4.81	497	-167	0	
							Neralu	5	75	0.75		1.88	546		67					
							Yethiga	5	38	0.38		0.95	546		10					
							Hunal	5	48	0.48		1.20	546		18					
													5242		**383**					
16	Anandapura	Konehosur MF	XIV	-	1960	10.80	Teak	35	88	0.88	2 SP	2.23	2646	245	727	6.41	280	-35	0	
							Beete	1	215	2.15		4.36	108		333					
							Hunal	2	28	0.28		1.55	216		1					
17	Anandapura	"	"	"	"	"	Teak	14	90	0.90		-	-		-					
							Beete	1	134	1.34		-	-		-					
							Hunal	2	96	0.96		-	-		-					
							J.W	4	-	-		-	-		-					
													2970		**1061**					
18	Anandapura	Malali SF	XIII	5	1961	28.32	Teak	23	45	0.45	2 SP	1.14	9487	335	508	3.95	737	-402	0	
							Hunal	8	65	0.65		1.12	4248		389					
							Mathi	11	38	0.38		0.97	3115		63					
							J.W	13	-	-		-	-		-					
19	Anandapura	"	"	"	"	"	Teak	44	44	0.44		-	-		-					
							Hunal	22	22	0.22		-	-		-					
													16850		**959**					
20	Anandapura	Malali SF	XIII	5	1962	20.00	Teak	54	38	0.38	2 SP	1.26	10200	510	232	3.55	914	-404	0	
							Mathi	1	95	0.95		2.50	200		43					
							Yethiga	1	83	0.83		2.18	200		33					
21	Anandapura	"	"	"	"	"	Teak	48	58	0.58		-	-		-					
							Hunal	3	40	0.40		1.05	600		14					
													11200		**321**					
22	Anandapura	Chipli SF road side	XIII	6	1962	120.00	Teak	42	62	0.62	6 SP	1.58	38800	323	4044	4.92	475	-151	0	
							J.W	8	78	0.78		2.05	9600		1218					
							Mathi	1	36	0.36		0.97	600		8					
23	Anandapura	"	"	"	"	"	Teak	27	62	0.62		-	-		-					

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							Hunal	11	39	0.39		1.93	7600		212					
							J.W	14	-	-		-	-		-					
24	Anandapura	"	"	"	"	"	Teak	18	48	0.48		-	-		-					
							Beete	2	51	0.51		1.34	2400		148					
							Hunal	11	65	0.65		-	-		-					
							Honne	1	107	1.07		2.82	1200		497					
							J.W	36	-	-		-	-		-					
25	Anandapura	"	"	"	"	"	Teak	36	67	0.67		-	-		-					
							Nandi	1	118	1.18		3.11	1200		662					
							Mathi	2	38	0.38		-	-		-					
							Hunal	7	65	0.65		-	-		-					
26	Anandapura	"	"	"	"	"	Teak	22	72	0.72		-	-		-					
							Hunal	4	120	1.20		-	-		-					
							J.W	20	-	-		-	-		-					
27	Anandapura	"	"	"	"	"	Teak	49	49	0.49		-	-		-					
							Hunal	5	78	0.78		-	-		-					
							J.W	44	-	-		-	-		-					
													61400		**6788**					
28	Anandapura	Malali SF	XIII	5	1963	56.65	Teak	66	55	0.55	2 SP	1.50	29458	520	1835	4.53	560	-40	0	
							Hunal	8	44	0.44		1.20	3682		127					
29	Anandapura	"	"	"	"	"	Teak	38	56	0.56		-	-		-					
							Hunal	5	45	0.45		-	-		-					
													33140		**1962**					
30	Anandapura	Malali SF	XIII	5	1964	50.50	Teak	43	56	0.56	3 SP	1.61	21883	433	1489	4.58	549	-115	0	
							Hunal	14	44	0.44		1.12	7743		229					
31	Anandapura	"	"	"	"	"	Teak	48	56	0.56		-	-		-					
							Hunal	25	31	0.31		-	-		-					
32	Anandapura	"	"	"	"	"	Teak	39	62	0.62		-	-		-					
							Hunal	7	46	0.46		-	-		-					
													29627		**1718**					
33	Anandapura	Malali SF	XIII	5	1964	"	Teak	45	45	0.45		1.25	22725		832					
							Hunal	6	43	0.43		1.19	3030		105					
							J.W	4	-	-		-	-		-					
													25755		**937**					
34	Anandapura	Choradi MF	XIV	12	1964	180.00	Teak	46	80	0.80	5 SP	2.15	72000	400	15377	5.95	324	76	13597	2002
							Mathi	1	28	0.28		0.78	1800		24					2003
							Nandi	1	65	0.65		1.81	1800		211					
							Hunal	1	88	0.88		1.23	1800		504					
35	Anandapura	Choradi MF	XIV	19	1964	"	Teak	46	80	0.80		-	-		-					
							Jambe	1	92	0.92		2.56	1800		212					
							Hunal	1	43	0.43		-	-		-					

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36	Anandapura	Choradi MF	XIV	12	1964	"	Teak	50	88	0.88		-	-		-					
							Hunal	3	90	0.90		-	-		-					
							Beete	1	97	0.97		2.69	1800		659					
							Eucalyptus	1	62	0.62		0.76	2880		369					
37	Anandapura	"	"	"	"	"	Teak	28	70	0.70		-	-		-					
							Eucalyptus	6	45	0.45		-	-		-					
38	Anandapura	"	"	"	"	"	Teak	30	69	0.69		-	-		-					
							Yethiga	2	74	0.74		2.06	3600		603					
							Honne	1	27	0.27		0.75	1800		22					
							Eucalyptus	1	30	0.30		-	-		-					
													89280		**17982**					
39	Anandapura	Tuppur MF	XIV	2	1965	140.00	Teak	40	51	0.51	9 SP	1.70	44644	319	3391	4.29	624	-305	0	
							Hunalu	8	40	0.40		1.48	4511		156					
							J.W	12	-	-		-	-		-					
40	Anandapura	"	"	"	"	"	Teak	46	62	0.62		-	-		-					
							Nandi	8	38	0.38		1.58	2644		58					
							Hunalu	8	40	0.40		-	-		-					
							J.W	9	-	-		-	-		-					
41	Anandapura	"	"	"	"	"	Teak	14	43	0.43		-	-		-					
							Nandi	2	55	0.55		-	-		-					
							Beete	1	51	0.51		2.44	622		38					
							Hunalu	5	26	0.26		-	-		-					
42	Anandapura	"	"	"	"	"	Teak	28	71	0.71		-	-		-					
							Nandi	1	46	0.46		-	-		-					
							Hunalu	3	72	0.72		-	-		-					
							Beete	1	50	0.50		-	-		-					
							J.W	10	-	-		-	-		-					
43	Anandapura	"	"	"	"	"	Teak	30	81	0.81		-	-		-					
							Nandi	3	66	0.66		-	-		-					
							Hunalu	3	60	0.60		-	-		-					
							J.W	3	-	-		-	-		-					
44	Anandapura	"	"	"	"	"	Teak	32	51	0.51		-	-		-					
							Eucalyptus	5	67	0.67		1.91	7000		1267					
							Honne	3	30	0.30		1.54	1244		23					
							Nandi	3	71	0.71		-	-		-					
							Beete	1	63	0.63		-	-		-					
45	Anandapura	"	"	"	"	"	Teak	43	58	0.58		-	-		-					
							Beete	1	178	1.78		-	-		-					
							J.W	4	-	-		-	-		-					
46	Anandapura	"	"	"	"	"	Teak	29	61	0.61		-	-		-					
							Honne	4	56	0.56		-	-		-					
							Mathi	1	50	0.50		1.43	1400		58					
							J.W	6	-	-		-	-		-					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
47	Anandapura	"	"	"	"	"	Teak	25	59	0.59		-	-		-					
							Hunal	2	72	0.72		-	-		-					
							Honne	1	130	1.30		-	-		-					
							J.W	4	-	-		-	-		-					
													62067		**4992**					
48	Anandapura	Gilalgundi SF	XIV	5	1965	32.00	Teak	27	90	0.90	4 SP	2.53	10560	330	3449	6.53	270	60	1920	2004
							Hunal	2	63	0.63		1.80	640		99					
							J.W	1	-	-		-	-		-					
49	Anandapura	"	"	"	"	"	Teak	34	83	0.83		-	-		-					
							Beete	5	49	0.49		0.04	560		21					
							J.W	2	-	-		-	-		-					
50	Anandapura	"	"	"	"	"	Teak	33	106	1.06		-	-		-					
51	Anandapura	"	"	"	"	"	Teak	38	75	0.75		-	-		-					
							Beete	2	112	1.12		-	-		-					
							J.W	7	-	-		-	-		-					
													11760		**3569**					
52	Anandapura	Sannivasa	XIV	14	1965	56.80	Teak	15	68	0.68	3 SP	1.79	7763	137	759	5.27	415	-278	0	
							Hunal	14	53	0.53		1.65	10603		580					
							Nandi	9	48	0.48		1.57	2840		133					
							Mathi	1	52	0.52		1.39	947		68					
53	Anandapura	"	"	"	"	"	Teak	10	57	0.57		-	-		-					
							Nandi	4	48	0.48		-	-		-					
							Hunal	31	62	0.62		-	-		-					
							Mathi	2	29	0.29		-	-		-					
54	Anandapura	"	"	"	"	"	Teak	16	63	0.63		-	-		-					
							Hunal	11	58	0.58		-	-		-					
							Eucalytus	9	86	0.86		2.46	5112		2208					
							Nandi	2	69	0.69		-	-		-					
							Mathi	2	65	0.65		-	-		-					
													27264		**3747**					
55	Anandapura	K.B.S.F. Kalmane	XI	11	1965	20.00	Teak	39	90	0.90		2.57	7800	390	3338	6.53	270	120	2400	2004
							Hunal	1	37	0.37		1.06	200		5					
													8000		**3343**					
56	Anandapura	K.B.S.F. Kalmane	XI	11	1965	40.00	Teak	48	70	0.70	2 SP	2.03	17400	435	3082	5.38	397	38	1512	2001
							Eucaly	3	150	1.50		2.93	1200		1877					
							Beete	3	70	0.70		2.00	1200		131					
							Nandi	1	45	0.45		1.29	400		14					
57	Anandapura	"	"	"	"	"	Teak	39	72	0.72		-	-		-					
							Eucaly	3	55	0.55		-	-		-					
							Hunal	1	73	0.73		2.09	400		47					
													20600		**5151**					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
58	Anandapura	K.B.S.F. Kalmane	XI	11	1965	20.00	Teak	55	64	0.64		1.83	11000	550	1253	5.04	453	97	1935	2004
							Beete	1	53	0.53		1.51	200		12					
							Hunal	2	40	0.40		1.14	400		9					
							Nandi	2	40	0.40		1.14	400		9					
													12000		**1283**					
59	Anandapura	K.B.S.F	XI	33	1966	50.40	Teak	48	74	0.74	3 SP	2.20	24948	495	5224	5.61	365	130	65.3	2005
							Hunal	4	42	0.42		1.28	2772		75					
							J.W	4	-	-		-	-		-					
60	Anandapura	"	"	"	"	"	Teak	38	82	0.82		-	-		-					
61	Anandapura	"	"	"	"	"	Teak	13	68	0.68		-	-		-					
							Mathi	4	62	0.62		1.82	2016		162					
							Hunalu	7	45	0.45		-	-		-					
							Eucalyptus	4	35	0.35		1.03	2016		52					
							Beete	1	84	0.84		2.47	504		89					
							J.W	23	-	-		-	-		-					
													32256		**5601**					
62	Anandapura	Chipli SF	XIII	6	1967	2.00	Teak	48	65	0.65		1.97	960	480	138	5.09	443	37	74	2006
							Hunal	4	55	0.55		1.67	80		7					
							J.W	36	-	-		-	-		-					
													1040		**145**					
63	Anandapura	K.B.S.F. Kalmane	XI	11	1967	60.00	Teak	60	62	0.62	2 SP	2.08	37800	630	3233	4.92	475	155	9324	2007
							Hunal	9	65	0.65		1.89	3000		388					
							Beete	1	62	0.62		1.88	600		64					
							Nandi	9	50	0.50		1.52	5400		300					
64	Anandapura	"	"	"	"	"	Teak	66	75	0.75		-	-		-					
							Hunal	1	60	0.60		-	-		-					
													46800		**3985**					
65	Anandapura	Byrapura (KBSF)	XIII	20	1967	20.00	Teak	84	75	0.75	2 SP	2.20	15100	755	2952	5.67	358	397	7938	2008
							Muthuga	6	59	0.59		1.79	1200		116					
66	Anandapura	"	"	"	"	"	Teak	67	70	0.70		-	-		-					
													16300		**3069**					
67	Anandapura	Malandur SF	XIII	19	1968	34.26	Teak	35	55	0.55		1.72	11991	350	757	4.52	562	-212	0	
							Buralu	1	68	0.68		2.13	343		13					
													12334		**770**					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
68	Anandapura	Hiraharka	XI	29	1968	38.00	Teak	49	65	0.65	2 SP	2.02	19380	510	2732	5.09	443	67	2541	2006
							Jambe	2	74	0.74		2.31	760		139					
							Hunal	1	77	0.77		2.41	380		75					
69	Anandapura	"	"	"	"	"	Teak	53	64	0.64		-	-		-					
													20520		**2946**					
70	Anandapura	Malandur SF	XIII	18	1969	42.40	Teak	41	60	0.60	2 SP	2.08	12932	305	1036	4.81	497	-192	0	
							Muthuga	1	56	0.56		1.81	424		18					
71	Anandapura	"	"	"	"	"	Teak	20	69	0.69		-	-		-					
							Rosewood	2	100	1.00		3.23	848		236					
							Jambe	2	50	0.50		1.61	848		18					
													15052		**1308**					
72	Anandapura	K.B.S.F. Kalmane	XI	11	1969	38.00	Teak	46	65	0.65	2 SP	2.34	20900	550	2701	5.09	443	107	4061	2006
							Nandi	1	45	0.45		1.53	570		39					
							Hunal	3	80	0.80		2.10	760		162					
73	Anandapura	"	"	"	"	"	Teak	64	80	0.80		-	-		-					
							Nandi	2	50	0.50		-	-		-					
							Hunal	1	50	0.50		-	-		-					
							Eucaly	15	50	0.50		1.61	5700		476					
													27930		**3377**					
74	Anandapura	Chipli SF	XIII	6	1970	20.00	Teak	41	56	0.56	2 SP	1.65	7200	360	738	4.58	549	-189	0	
							Hunal	4	60	0.60		1.58	1600		208					
							J.W	55	-	-		-	-		-					
75	Anandapura	"	"	"	"	"	Teak	31	43	0.43		-	-		-					
							Hunal	12	35	0.35		-	-		-					
							J.W	27	-	-		-	-		-					
													8800		**946**					
76	Anandapura	K.B.S.F. Kalmane	XI	10	1970	60.00	Teak	53	60	0.60	2 SP	2.08	33900	565	3224	4.81	497	68	4051	2009
							Eucaly	3	50	0.50		1.67	1800		163					
							Nandi	4	75	0.75		2.50	2400		488					
77	Anandapura	"	"	"	"	"	Teak	60	65	0.65		-	-		-					
							Hunal	5	79	0.79		2.63	3000		521					
							Beete	1	41	0.41		1.37	600		17					
							Mathi	1	93	0.93		3.10	600		144					
							J-Wood	10	57	0.57		1.90	6000		434					
													48300		**4990**					

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78	Anandapura	Chipli SF	XIII	6	1971	34.00	Teak	22	72	0.72	3 SP	2.37	9180	270	1290	5.50	381	-111	0	
							Hunal	3	42	0.42		2.72	1813		47					
							Nandi	3	120	1.20		4.14	1020		480					
							Jambe	16	40	0.40		1.38	5440		148					
79	Anandapura	"	"	"	"	"	Teak	40	68	0.68		-	-		-					
							Hunal	3	117	1.17		-	-		-					
							J.W	10	-	-		-	-		-					
80	Anandapura	"	"	"	"	"	Teak	19	66	0.66		-	-		-					
							Hunal	10	78	0.78		-	-		-					
							J.W	13	-	-		-	-		-					
													17453		**1965**					
81	Anandapura	K.B.S.F. Kalmane	XI	9	1971	40.00	Teak	60	53	0.53	2 SP	2.09	21800	545	1618	4.41	92	-47	0	
							Hunal	5	50	0.50		1.98	2000		153					
							Beete	2	60	0.60		2.07	800		96					
							Nandi	6	70	0.70		2.41	2400		425					
82	Anandapura	"	"	"	"	"	Teak	49	68	0.68		-	-		-					
							Hunal	5	65	0.65		-	-		-					
													27000		**2292**					
83	Anandapura	K.B.S.F. Kalmane	XI	9	1972	40.00	Teak	55	65	0.65	2 SP	2.05	15600	390	1375	5.09	443	-53	0	
							Hunal	6	70	0.70		2.50	2400		327					
							Nandi	1	67	0.67		2.36	600		75					
							J-Wood	6	41	0.41		1.98	4200		157					
84	Anandapura	"	"	"	"	"	Teak	23	50	0.50		-	-		-					
							Beete	4	70	0.70		2.50	1600		240					
							Nandi	2	65	0.65		-	-		-					
							J-Wood	15	70	0.70		-	-		-					
													24400		**2173**					
85	Anandapura	Gilalgundi SF	XIV	9	1974	8.00	Teak	78	46	0.46		1.77	6240	780	257	4.01	717	63	508	2006
							Mathi	3	20	0.20		0.77	240		1					
							Beete	1	102	1.02		3.92	80		25					
							J.W	1	-	-		-	-		-					
													6560		**283**					
86	Anandapura	Teliginamane SF	XIII	3	1974	35.00	Teak	65	32	0.32	4 SP	1.29	25638	733	433	3.22	1109	-376	0	
							Hunalu	23	55	0.55		1.83	6125		208					
87	Anandapura	"	"	"	"	"	Teak	105	29	0.29		-	-		-					

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							Hunalu	12	47	0.47		-	-		-					
88	Anandapura	"	"	"	"	"	Teak	57	41	0.41		-	-		-					
							Hunalu	22	44	0.44		-	-		-					
89	Anandapura	"	"	"	"	"	Teak	66	32	0.32		-	-		-					
							Hunalu	13	45	0.45		-	-		-					
													31763		**641**					
90	Anandapura	Tuppur SF	XIV	9	1975	12.00	Teak	61	40	0.40		1.60	7320	610	261	3.66	857	-247	0	
							Hunal	16	40	0.40		1.60	1920		63					
							Nandi	2	80	0.80		3.20	240		28					
							J.W	8	-	-			-		-					
													9480		**352**					
91	Anandapura	Gilalgundi SF	XIV	5	1975	10.00	Teak	25	92	0.92		3.68	2500	250	**794**	6.64	261	-11	0	
92	Anandapura	Chipli SF	XIII	6	1977	40.00	Teak	27	45	0.45	2 SP	2.09	8800	220	421	3.95	737	-517	0	
							Hunal	4	39	0.39		2.25	3000		62					
							J.W	95	40	0.40		1.78	31000		1069					
93	Anandapura	"	"	"	"	"	Teak	17	51	0.51		-	-		-					
							Hunal	11	65	0.65		-	-		-					
							J.W	60	42	0.42		-	-		-					
							Nandi	1	69	0.69		3.00	400		77					
													43200		**1629**					
94	Anandapura	Malandur SF	XIII	17	1978	9.20	Teak	34	50	0.50		2.27	3128	340	174	4.24	641	-301	0	
							Hunal	5	70	0.70		3.18	460		63					
							Jambe	8	50	0.50		2.27	736		38					
							J-Wood	5	40	0.40		1.82	460		16					
													4784		**291**					
95	Anandapura	Malandur SF	XIII	17	1979	31.20	Teak	49	35	0.35	2 SP	1.76	11856	380	182	3.38	1009	-629	0	
							Hunal	8	22	0.22		1.43	3276		13					
							J-Wood	7	25	0.25		1.19	2184		15					
96	Anandapura	"	"	"	"	"	Teak	27	39	0.39		-	-		-					
							Hunal	13	38	0.38		-	-		-					
													17316		**210**					
97	Anandapura	Hiraharka	XI	42	1979	26.00	Teak	53	62	0.62	2 SP	3.10	13650	525	1605	4.92	475	50	1310	2009
98	Anandapura	"	"	"	"	"	Teak	52	68	0.68		-	-		-					

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							Hunal	3	66	0.66		3.14	780		109					
							Beete	1	63	0.63		3.00	260		37					
													14690		**1751**					
99	Anandapura	Malandur SF	XIII	16	1980	31.20	Teak	80	45	0.45	2 SP	2.30	19656	630	886	3.95	737	-107	0	
							Hunal	6	55	0.55		2.35	2184		147					
							Nandi	3	30	0.30		1.70	624		11					
100	Anandapura	"	"	"	"	"	Teak	46	47	0.47		-	-		-					
							Hunal	8	39	0.39		-	-		-					
							Nandi	1	38	0.38		-	-		-					
													22464		**1043**					
101	Anandapura	Hiraharka	XI	42	1980	26.00	Teak	59	73	0.73		3.65	15340	590	**2955**	5.55	373	217	5642	2010
102	Anandapura	Hiraharka	XI	42	1981	14.08	Teak	75	59	0.59		3.11	10560	750	1227	4.75	510	240	3386	2009
							Hunal	1	28	0.28		1.47	141		2					
							Eucaly	1	50	0.50		2.63	141		12					
													10842		**1241**					
103	Anandapura	Malandur SF	XIII	15	1982	14.08	Teak	59	50	0.50		2.78	8307	590	404	4.24	641	-51	0	
							Hunal	19	38	0.38		2.11	2675		64					
							Nandi	4	33	0.33		1.83	563		7					
													11546		**476**					
104	Anandapura	Malandur SF	XIII	15	1983	73.00	Teak	62	38	0.38	2 SP	2.18	62415	855	1253	3.55	914	-59	0	
							Hunal	8	30	0.30		1.76	5840		73					
							Jambe	4	25	0.25		1.47	2920		15					
							J-Wood	5	39	0.39		2.29	3650		77					
105	Anandapura	"	"	"	"	"	Teak	109	36	0.36		-	-		-					
							Hunal	1	-	-		-	-		-					
							J-Wood	2	-	-		-	-		-					
													74825		**1419**					
106	Anandapura	Teliginamane SF	XIII	1	1989	40.00	Teak	53	38	0.38	4 SP	3.42	22700	568	582	3.54	915	-348	0	
							Hunalu	29	41	0.41		4.27	7200		188					
107	Anandapura	"	"	"	"	"	Teak	87	38	0.38		-	-		-					
							Hunalu	13	41	0.41		-	-		-					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Eucalyptus	8	71	0.71		0.04	1400		315					
108	Anandapura	"	"	"	"	"	Teak	50	38	0.38		-	-		-					
							Hunalu	23	45	0.45		-	-		-					
							Eucalyptus	6	71	0.71		-	-		-					
109	Anandapura	"	"	"	"	"	Teak	37	38	0.38		-	-		-					
							Hunalu	7	61	0.61		-	-		-					
							Mathi	7	45	0.45		0.02	2800		90					
													34100		**1174**					
					Total	**1753.78**						**102**	**1067310**		**119111**		**25304**	**-2858**	**72760**	
											Avg.	**2**								
3	**ANAVATTI RANGE**																			
1	Anavatti	Siddahalli SF	IV	2	1886	80.93	Teak	22	120	22.90	3 SP	0.80	24009	297	22164	8.27	168	128	10392	2001
2	Anavatti	"	"	"	"	"	"	23	102	12.45		-	-		-					2002
3	Anavatti	"	"	"	"	"	"	44	50	7.41		-	-		-					
													24009		**22164**					
4	Hasvi	Bettadakurli DF	VI	5	1932	4.04	Teak	30	108	21.16		1.59	1212	300	832	7.56	201	99	398	2003
5	Anavatti	Bettadakurli SF	VI	8	1936	2.02	Teak	47	61	13.93		0.95	949	470	137	4.87	486	-16		
6	Anavatti	Talagadde SF	V	4	1936	2.02	Teak	35	87	19.88		1.36	707	350	298	6.37	283	67	135	2003
7	Anavatti	Talagadde SF	V	4	1937	2.02	Teak	26	59	11.15		0.93	525	260	56	4.74	512	-252		
8	Anavatti	Talagadde SF	V	4	1938	4.04	Teak	31	90	19.96		1.45	1252	310	559	6.51	272	38	155	2003
9	Anavatti	Siddahalli SF	IV	2	1938	8.09	Teak	25	72	14.18		1.16	2023	250	415	5.50	380	-130		
10	Anavatti	Talagadde SF	V	4	1939	4.04	Teak	36	52	7.11		0.85	1454	360	77	4.33	614	-254		
11	Anavatti	Talagadde SF	V	5	1939	4.04	Teak	40	47	7.95		0.77	1616	400	79	4.06	696	-296		
12	Anavatti	Talagadde SF	V	4	1939	4.04	Teak	22	42	7.95		0.68	889	220	34	3.75	817	-597		
13	Anavatti	Siddahalli SF	IV	2	1939	8.93	Teak	16	99	14.50		1.62	1429	160	566	7.05	231	-71		
14	Anavatti	Talagadde SF	V	5	1940	4.04	Teak	20	58	10.30		0.96	808	200	77	4.68	525	-325		
15	Anavatti	Talagadde SF	V	3	1941	4.04	Teak	33	49	7.00		0.83	1333	330	63	4.18	657	-327		
16	Anavatti	Talagadde SF	V	4	1941	4.04	Teak	29	44	6.93		0.75	1172	290	44	3.90	756	-466		
17	Hasvi	Siddahalli SF	B - IV	2	1943	8.09	Teak	43	45	8.11		0.79	3479	430	158	3.94	740	-310		
18	Hasvi	Siddahalli SF	B - IV	2	1944	7.20	Teak	53	44	10.70		0.79	3816	530	222	3.91	754	-224		
19	Anavatti	Bettadakurli SF	VI	8	1946	3.23	Teak	39	78	16.43		1.44	1260	390	350	5.84	337	53	170	2003
20	Anavatti	Bettadakurli SF	VI	8	1947	13.35	Teak	31	90	14.27		1.71	4139	310	1344	6.55	268	42	564	2003
21	Anavatti	Bettadakurli SF	VI	5	1947	6.07	Teak	42	64	10.42		1.21	2549	420	303	5.04	453	-33		
22	Anavatti	Talagadde SF	V	5	1948	2.83	Teak	28	89	21.90		1.70	792	280	378	6.44	277	3	8	
23	Anavatti	Bettadakurli SF	VI	8	1948	22.25	Teak	53	71	16.68	2 SP	1.37	11459	515	2710	5.46	386	129	2880	2003
24	Anavatti	"	"	"	"	"	"	50	71	13.74		-	-		-					
													11459		**2710**					
25	Anavatti	Bettadakurli SF	VI	8	1949	4.04	Teak	37	73	15.27		1.43	1495	370	338	5.55	373	-3		
26	Anavatti	Talagadde SF	V	4	1949	4.04	Teak	21	83	21.57		1.62	848	210	347	6.10	309	-99		
27	Anavatti	Bettadakurli SF	VI	8	1950	10.00	Teak	37	78	20.08		1.56	3700	370	1257	5.84	337	33	327	2004
28	Anavatti	Bettadakurli	VI	8	1951	16.18	Teak	54	74	16.51	2 SP	1.44	8090	500	2034	5.61	365	135	2177	2004

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29	Anavatti	"	"	"	"	"	"	46	67	13.10		-	-		-					
													8090		**2034**					
30	Anavatti	Bettadakurli SF	VI	8	1952	11.05	Teak	64	55	13.18		1.15	**7072**	640	**784**	4.52	562	78	857	2004
31	Anavatti	Bettadakurli SF	VI	8	1953	16.18	Teak	50	66	2.94	2 SP	1.46	8171	505	291	5.15	433	72	1160	2004
32	Anavatti	"	"	"	"	"	"	51	71	15.11		-	-		-					
													8171		**291**					
33	Anavatti	Bettadakurli SF	VI	8	1954	11.33	Teak	62	66	15.09		1.43	**7025**	620	**1284**	5.15	433	187	2115	2005
34	Anavatti	Bettadakurli SF	VI	8	1955	14.56	Teak	72	67	15.23	2 SP	1.51	8372	575	1592	5.21	424	151	2201	2005
35	Anavatti	"	"	"	"	"	"	43	69	15.60		-	-		-					
													8372		**1592**					
36	Anavatti	Bettadakurli DF	VI	5	1956	3.64	Teak	59	66	15.25		1.50	2148	590	397	5.15	433	157	570	2006
37	Anavatti	Bettadakurli SF	VI	8	1956	10.00	Teak	61	62	17.18		1.41	6100	610	1120	4.92	475	135	1354	2006
38	Anavatti	Bettadakurli DF	VI	5	1957	7.28	Teak	50	70	15.88		1.63	3640	500	788	5.38	397	103	748	2006
39	Hasvi	Bettadakurli DF	VI	5	1958	6.07	Teak	41	71	18.46		1.69	2489	410	644	5.44	389	21	128	2006
40	Hasvi	Bettadakurli SF	VI	8	1958	8.03	Teak	45	64	14.35		1.52	3614	450	591	5.04	453	-3	0	
42	Anavatti	Bettadakurli SF	VI	8	1959	15.37	Teak	68	57	14.76	2 SP	1.39	10605	690	1414	4.64	535	155	2382	2007
43	Anavatti	"	"	"	"	"	"	70	57	14.41		-	-		-					
													10605		**1414**					
44	Anavatti	Bettadakurli SF	VI	8	1960	16.99	Teak	40	64	13.87		1.60	6796	400	1074	5.04	453	-53	0	
45	Anavatti	Bettadakurli SF	VI	8	1960	7.68	Teak	67	62	14.64		1.55	5146	670	805	4.92	475	195	1501	2006
46	Anavatti	Bettadakurli SF	VI	8	1960	5.26	Teak	75	52	12.74		1.30	3945	750	378	4.35	608	142	748	2006
47	Anavatti	Bettadakurli SF	VI	8	1960	16.99	Teak	65	62	23.47		1.55	11044	650	2771	4.92	475	175	2980	2007
48	Anavatti	Bettadakurli SF	VI	8	1961	16.18	Teak	48	72	17.97	2 SP	1.83	6391	395	1656	5.50	381	14	229	2007
49	Anavatti	"	"	"	"	"	"	31	71	17.16		-	-		-					
													6391		**1656**					
50	Anavatti	Bettadakurli SF	VI	6	1962	20.00	Teak	37	65	15.08	2 SP	1.64	8100	405	1435	5.09	443	-38	0	
51	Anavatti	"	"	"	"	"	"	44	60	14.65		-	-		-					
													8100		**1435**					
52	Anavatti	Talagadde SF	V	5	1962	4.04	Teak	20	70	10.13		1.84	**808**	200	**112**	5.39	396	-196	0	
53	Anavatti	Bettadakurli SF	VI	7	1963	20.23	Teak	82	50	12.29	2 SP	1.41	15173	750	1296	4.24	641	109	2203	2007
54	Anavatti	"	"	"	"	"	"	68	54	13.47		-	-		-					
													15173		**1296**					
55	Anavatti	Talagadde SF	V	4	1963	4.04	Teak	34	49	8.67		1.31	**1374**	340	**78**	4.15	666	-326	0	
56	Anavatti	Bettadakurli SF	VI	6	1964	20.23	Teak	23	43	11.17	2 SP	1.19	5462	270	314	3.83	782	-512	0	
57	Anavatti	"	"	"	"	"	"	31	43	7.48		-	-		-					
													5462		**314**					
58	Anavatti	Bettadakurli SF	VI	7	1964	10.00	Teak	44	63	18.86		1.75	4400	440	916	4.98	464	-24		
59	Anavatti	Bettadakurli SF	VI	8	1964	16.18	Teak	48	56	12.77		1.56	7766	480	865	4.58	549	-69		
60	Hasvi	Siddahalli SF	B - IV	2	1964	8.04	Teak	49	41	7.97		1.13	3940	490	145	3.71	838	-348		
61	Anavatti	Talagadde SF	V	5	1964	4.04	Teak	26	63	9.07		1.76	1050	260	106	5.00	460	-200		

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
62	Anavatti	Bettadakurli SF	VI	8	1965	40.00	Teak	67	58	14.49	4 SP	1.73	22600	565	3063	4.69	522	43	1718	2008
63	Anavatti	"	"	"	"	"	"	62	58	13.12		-	-		-					
64	Anavatti	"	"	"	"	"	"	36	66	12.97		-	-		-					
65	Anavatti	"	"	"	"	"	"	61	60	15.73		-	-		-					
													22600		**3063**					
66	Anavatti	Talagadde SF	V	5	1965	10.12	Teak	36	45	11.11		1.29	3643	360	230	3.96	732	-372		
67	Anavatti	Bettadakurli SF	VI	8	1966	10.00	Teak	36	35	14.38		1.03	3600	360	176	3.38	1009	-649		
68	Anavatti	Talagadde SF	V	4	1966	24.48	Teak	34	58	14.41		1.70	8255	337	1099	4.67	527	-189		
69	Anavatti	Talagadde SF	V	2	1966	26.30	Teak	18	37	8.05		1.08	4734	180	144	3.48	948	-768		
70	Anavatti	Talagadde SF	V		1966	24.28	Teak	57	27	6.28		0.80	13840	570	178	2.93	1342	-772		
71	Anavatti	Talagadde SF	V	5	1966	26.30	Teak	36	48	11.11		1.41	9468	360	669	4.11	80	-320		
72	Anavatti	Bettadakurli SF	VI	8	1967	16.18	Teak	35	62	11.68		1.88	5663	350	707	4.92	475	-125		
73	Anavatti	Talagadde SF	V	3	1967	26.31	Teak	24	60	11.00		1.81	6314	240	692	4.80	499	-259		
74	Anavatti	Bettadakurli SF	VI	8	1968	40.46	Teak	62	65	13.79	4 SP	1.92	22152	548	3589	5.09	443	104	4223	2009
75	Anavatti	"	"	"	"	"	"	38	58	11.63		-	-		-					
76	Anavatti	"	"	"	"	"	"	65	58	12.00		-	-		-					
77	Anavatti	"	"	"	"	"	"	54	65	16.24		-	-		-					
													22152		**3589**					
78	Anavatti	Talagadde SF	V	5	1968	20.23	Teak	21	69	11.95	2 SP	2.04	4855	240	762	5.31	408	-168	0	
79	Anavatti	"	"	"	"	"	"	27	62	8.85		-	-		-					
													4855		**762**					
80	Anavatti	Talagadde SF	V	5	1969	80.83	Teak	37	50	12.37	8 SP	1.84	23542	291	2055	4.26	635	-344	0	
81	Anavatti	"	"	"	"	"	"	23	63	14.56		-	-		-					
82	Anavatti	"	"	"	"	"	"	39	37	12.88		-	-		-					
83	Anavatti	"	"	"	"	"	"	46	41	10.91		-	-		-					
84	Anavatti	"	"	"	"	"	"	23	59	13.73		-	-		-					
85	Anavatti	"	"	"	"	"	"	26	59	9.73		-	-		-					
86	Anavatti	"	"	"	"	"	"	23	61	10.95		-	-		-					
87	Anavatti	"	"	"	"	"	"	16	85	16.87		-	-		-					
													23542		**2055**					
88	Anavatti	Talagadde SF			1969	20.24	Teak	38	52	11.84		1.66	7691	380	674	4.33	614	-234		
89	Anavatti	Bettadakurli SF	VI	8	1969	16.18	Teak	68	57	11.50		1.84	11002	680	1143	4.64	535	145	2346	2008
90	Anavatti	Bettadakurli SF	VI	8	1969	16.18	Teak	37	70	13.29		2.26	5987	370	1084	5.38	397	-27		
91	Anavatti	Talagadde SF	V	3	1969	20.24	Teak	27	51	9.00		1.65	5465	270	357	4.30	622	-352		
92	Anavatti	Bettadakurli SF	VI	6	1970	24.28	Teak	35	37	8.31	2 SP	1.37	9833	405	311	3.49	944	-539		
93	Anavatti	"	"	"	"	"	"	46	45	8.95		-	-		-					
													9833		**311**					
94	Anavatti	Talagadde SF	V	3	1970	20.23	Teak	42	31	7.80	2 SP	1.11	9609	475	198	3.14	1168	-693	0	
95	Anavatti	"	"	"	"	"	"	53	36	8.84		-	-		-					
													9609		**198**					
96	Anavatti	Bettadakurli SF	VI	7	1971	10.00	Teak	52	60	16.80		2.07	5200	520	875	4.81	497	23	225	2010
97	Anavatti	Bettadakurli SF	VI	7	1972	20.00	Teak	39	57	12.25	2 SP	2.04	7700	385	852	4.64	535	-150	0	

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98	Anavatti	"	"	"	"	"	"	38	57	10.81		-	-		-					
													7700		**852**					
99	Anavatti	Bettadakurli SF	VI	7	1973	20.00	Teak	48	63	13.56	2 SP	2.19	9400	470	1407	4.98	464	6	125	2010
100	Anavatti	"	"	"	"	"	"	46	55	13.15		-	-		-					
													9400		**1407**					
101	Anavatti	Siddahalli SF	IV	2	1976	24.00	Teak	88	42	8.83	3 SP	1.90	13680	570	584	3.76	813	-243	0	
102	Anavatti	"	"	"	"	"	"	39	40	8.01		-	-		-					
103	Anavatti	"	"	"	"	"	"	44	56	11.38		-	-		-					
													13680		**584**					
104	Anavatti	Talagadde SF	V	3	1976	28.08	Teak	33	40	8.77	3 SP	1.62	13291	473	507	3.64	870	-396	0	
105	Anavatti	"	"	"	"	"	"	51	35	6.74		-	-		-					
106	Anavatti	"	"	"	"	"	"	58	42	9.68		-	-		-					
													13291		**507**					
107	Anavatti	Talagadde SF	V	3	1978	28.04	Teak	125	32	7.89	3 SP	1.40	21310	760	484	3.21	1113	-353	0	
108	Anavatti	"	"	"	"	"	"	51	26	5.60		-	-		-					
109	Anavatti	"	"	"	"	"	"	52	34	8.25		-	-		-					
													21310		**484**					
110	Anavatti		IX	10	1978	24.28	Teak	24	32	7.89		1.45	6735	277	151	3.20	1120	-843	0	
110	Anavatti	Talagadde SF	V	3	1979	28.08	Teak	36	34	6.36		1.62	10109	360	207	3.32	1044	-684	0	
111	Anavatti	Talagadde SF	V	3	1980	28.04	Teak	43	34	8.60	2 SP	1.75	16824	600	453	3.29	1060	-460	0	
112	Anavatti	"	"	"	"	"	"	77	37	8.32		-	-		-					
													16824		**453**					
113	Anavatti	Talagadde SF	V	3	1981	31.36	Teak	74	41	8.90	3 SP	2.03	18502	590	768	3.72	833	-243	0	
114	Anavatti	"	"	"	"	"	"	43	36	7.69		-	-		-					
115	Anavatti	"	"	"	"	"	"	60	38	8.30		-	-		-					
													18502		**768**					
116	Anavatti	Talagadde SF	V	4	1982	28.80	Teak	29	50	10.65	2 SP	2.83	9360	325	680	4.21	650	-325	0	
117	Anavatti	"	"	"	"	"	"	36	53	8.02		-	-		-					
													9360		**680**					
118	Anavatti	Talagadde SF	V	5	1982	20.80	Teak	24	93	30.54		5.19	4992	240	3702	6.72	254	-14	0	
119	Anavatti	Siddahalli SF	IV	2	1983	19.38	Teak	89	41	10.58	2 SP	2.50	15310	790	774	3.75	820	-30	0	
120	Anavatti	"	"	"	"	"	"	69	43	9.78		-	-		-					
													15310		**774**					
121	Anavatti	Talagadde SF	V	4	1983	28.80	Teak	44	51	7.84	3 SP	3.61	9600	333	544	4.29	624	-291	0	
122	Anavatti	"	"	"	"	"	"	42	62	9.95		-	-		-					
123	Anavatti	"	"	"	"	"	"	14	71	10.00		-	-		-					
													9600		**544**					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
124	Anavatti	Siddahalli SF	IV	2	1984	16.40	Teak	109	33	8.23	2 SP	2.21	20090	1225	497	3.25	1086	139	2286	2010
125	Anavatti	"	"	"	"	"	"	136	38	10.12		-	-		-					
													20090		**497**					
126	Anavatti	Talagadde SF	V	3	1984	8.00	Teak	25	35	6.88		2.18	2000	250	47	3.37	1012	-762	0	
127	Anavatti	Talagadde SF	V	4	1984	20.80	Teak	18	55	10.05		3.42	3744	180	314	4.51	566	-386	0	
128	Anavatti	Talagadde SF	V	4	1989	10.00	Teak	37	56	14.43		5.07	3700	370	462	4.57	552	-182	0	
130	Anavatti	Bettadakurli SF	VI	6	1993	10.00	Teak	113	20	4.90		2.86	11300	1130	62	2.52	1815	-685	0	
131	Anavatti	Talagadde SF	V	5	1993	10.00	Teak	32	61	9.65		8.66	3200	320	316	4.84	490	-170	0	
134	Anavatti	Kuppagadde SF	IV	4	1995	15.00	Teak & Acacia	188	22	4.95	2 SP	6.60	25350	1690	169	2.63	1661	29	441	2010
135	Anavatti	"	"	"	"	"	"	150	44	4.46		-	-		-					
													25350		**169**					
					TOTAL	**1399.72**						**1582**	**631285**		**86532**		**53743**	**-14291**	**47746**	
4	**HOSANAGARA RANGE**																			
1	Hosanagar	Haridravathi	XXIV	11	1951	5.20	Teak	55	49	10.96		0.99	2860	550	207	4.16	663	-113	0	
2	"	Hirejeni (Enclosure	-	-	1951	39.00	Teak	53	57	11.37	4 SP	1.22	23400	600	2410	4.64	534	66	2570	2001
3	"	"	"	"	"	"	Teak	51	62	13.47		-	-		-					
4	"	"	"	"	"	"	Teak	60	66	12.99		-	-		-					
5	"	"	"	"	"	"	Teak	76	54	10.56		-	-		-					
													23400		**2410**					
6	"	Hirejeni (Enclosure	XXIV	29	1953	16.00	Teak	46	69	13.29	2 SP	1.34	7440	465	1291	5.30	410	55	880	2001
7	"	"	"	"	"	"	Teak	47	57	11.00		-	-		-					
													7440		**1291**					
8	"	Haridravathi	XXIV	11	1954	5.20	Teak	72	50	11.27		1.08	3744	720	288	4.21	650	70	366	2001
9	"	Haridravathi	XXIV	7	1954	36.00	Teak	35	56	10.73	4 SP	1.28	15030	418	1395	4.57	552	-134	0	
10	"	"	"	"	"	"	Teak	54	61	13.99		-	-		-					
11	"	"	"	"	"	"	Teak	43	58	11.83		-	-		-					
12	"	"	"	"	"	"	Teak	35	61	11.71		-	-		-					
													15030		**1395**					
13	"	Sharmanavathi	XXIII	7	1955	4.00	Teak	31	72	9.19		1.61	1240	310	166	5.52	377	-67	0	
14	"	Haridravathi enclos	XXIV	7	1956	18.00	Teak	42	66	14.00	2 SP	1.70	7290	405	1236	5.15	433	-28	0	
15	"	"	"	"	"	"	Teak	39	83	16.47		-	-		-					
													7290		**1236**					
16	"	Haridravathi	XXIV	7	1956	10.00	Teak	34	56	13.52		1.27	3400	340	396	4.56	553	-213		
17	"	Haridravathi	XXIV	7	1958	6.00	Teak	55	63	14.13		1.49	3300	550	511	4.97	466	84	502	2001
18	"	Shirapura block	-	-	1960	35.61	Teak	70	35	8.76		0.87	24927	700	741	3.37	1011	-311		
19	"	Hulligadde	-	-	1960	35.61	Teak	70	46	11.19	3 SP	1.15	15550	437	1015	3.99	721	-284		
20	"	"	"	"	"	"	Teak	61	52	12.36		-	-		-					
21	"	"	"	"	"	"	Teak	91	40	10.04		-	-		-					
													15550		**1015**					

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22	"	Kotethu	XXIV	7	1962	27.00	Teak	71	62	12.93	3 SP	1.48	11970	443	1635	4.90	479	-35	0	
23	"	"	"	"	"	"	Teak	62	54	12.00		-	-		-					
24	"	"	"	"	"	"	Teak	70	53	11.00		-	-		-					
													11970		**1635**					
25	"	Haridravathi	XXIV	12	1963	18.00	Teak	58	63	12.73	2 SP	1.61	8100	450	1122	4.95	469	-19	0	
26	"	"	"	"	"	"	Teak	32	56	10.26		-	-		-					
													8100		**1122**					
27	"	Haridravathi	XXIV	11	1963	7.20	Teak	42	63	12.10		1.70	3024	420	404	4.98	464	-44		
28	"	Haridravathi	XXIV	11	1964	9.20	Teak	52	63	10.00		1.75	4784	520	528	4.98	464	56	518	2001
29	"	Kodur SF	XXIV	3	1964	18.00	Teak	31	69	9.14	2 SP	1.90	7740	430	942	5.33	404	26	465	2001
30	"	"	"	"	"	"	Teak	55	68	7.80		-	-		-					
													7740		**942**					
31	"	Sharmanavathi	XXIII	7	1964	4.00	Teak	41	43	6.70		1.19	1640	410	56	3.82	790	-380	0	
32	"	Haridravathi	XXIV	7	1965	21.60	Teak	72	54	11.22	2 SP	1.61	14688	680	1321	4.45	582	98	2122	2001
33	"	"	"	"	"	"	Teak	64	59	12.02		-	-		-					
													14688		**1321**					
34	"	Haridravathi	XXIV	7	1966	20.00	Teak	41	63	12.48	2 SP	1.79	8800	440	1223	5.00	461	-21	0	
35	"	"	"	"	"	"	Teak	47	59	12.51		-	-		-					
													8800		**1223**					
36	"	Haridravathi	XXIV	12	1967	16.00	Teak	58	67	12.80	2 SP	1.83	8800	550	1393	5.19	427	123	1970	2002
37	"	"	"	"	"	"	Teak	52	54	10.38		-	-		-					
													8800		**1393**					
38	"	Haridravathi	XXIV	7	1968	34.00	Teak	50	61	12.45	3 SP	1.85	12127	357	1537	4.84	492	-135	0	
39	"	"	"	"	"	"	Teak	57	57	13.35		-	-		-					
40	"	"	"	"	"	"	Teak	51	59	12.22		-	-		-					
													12127		**1537**					
41	"	Haridravathi	XXIV	11	1975	21.10	Teak	57	52	10.51	2 SP	1.67	12344	585	976	4.35	608	-23	0	
42	"	"	"	"	"	"	Teak	60	31	7.43		-	-		-					
													12344		**976**					
43	"	Haridravathi	XXIV	12	1976	21.00	Teak	44	55	8.96	2 SP	2.31	9240	440	709	4.55	556	-116	0	
44	"	"	"	"	"	"	Teak	44	55	8.96		-	-		-					
													9240		**709**					
45	"	Haridravathi	XXIV	11	1977	20.00	Teak	111	47	11.49	2 SP	1.90	20900	1045	1504	4.09	688	357	7145	2003
46	"	"	"	"	"	"	Teak	98	40	12.00		-	-		-					
													20900		**1504**					

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47	"	Haridravathi	XXIV	12	1978	7.80	Teak	188	30	7.69		1.36	**14664**		**279**					
48	"	Jamballi SF	XXIV	17	1978	14.40	Teak	81	21	6.75		0.96	**11664**		**98**					
49	"	Jeni	-	-	1978	7.60	Teak	58	44	7.73		2.02	**4408**		**187**					
50	"	Haridravathi	XXIV	11	1981	20.00	Teak	119	38	10.00	2 SP	2.11	22100	1105	887	3.55	914	191	3829	2002
51	"	"	"	"	"	"	Teak	102	42	8.32		-	-		-					
													22100		**887**					
52	"	Haridravathi	XXIV	12	1982	21.00	Teak	58	42	10.34	2 SP	2.33	11445	545	575	3.77	811	-266	0	
53	"	"	"	"	"	"	Teak	51	42	8.05		-	-		-					
													11445		**575**					
54	"	Haridravathi	XXIV	11	1983	20.00	Teak	55	38	7.62	2 SP	2.28	13400	670	410	3.55	914	-244	0	
55	"	"	"	"	"	"	Teak	79	40	7.86		-	-		-					
													13400		**410**					
56	"	Jamballi SF	XXIV	17	1983	15.00	Teak	129	30	7.80		1.77	**19350**		**379**					
57	"	Jeni	XXIII	3	1983	24.00	Teak	81	39	8.75	3 SP	1.98	18080	753	660	3.59	892	-139	0	
58	"	"	"	"	"	"	Teak	64	34	7.00		-	-		-					
59	"	"	"	"	"	"	Teak	81	29	7.09		-	-		-					
													18080		**660**					
60	"	Haridravathi	XXIV	11	1984	24.40	Teak	91	40	9.07	2 SP	2.32	23668	970	962	3.67	854	116	2841	2002
61	"	"	"	"	"	"	Teak	103	34	7.62		-	-		-					
													23668		**962**					
62	"	Malavalli	-	-	1984	20.00	Teak	228	35	7.50	2 SP	2.22	49800	2490	1293	3.39	999	1491	29812	2004
63	"	"	"	"	"	"	Teak	270	36	9.80		-	-		-					2005
													49800		**1293**					2006
64	"	H.Kalkoppa	-	-	1984	10.00	Teak	208	39	10.00		2.42	**20800**		**865**					2007
67	"	Biliki MF	XXIV	29	1986	38.00	Teak	34	67	8.92	4 SP	3.18	30685	808	3405	5.20	425	383	14536	2008
68	"	"	"	"	"	"	Teak	119	36	9.37			-		-					2009
69	"	"	"	"	"	"	Teak	60	35	8.53			-		-					
70	"	"	"	"	"	"	Teak	110	41	10.93			-		-					
													30685		**3405**					
71	"	K.Hunasavalli	-	-	1986	17.00	Teak	49	57	8.60	2 SP	4.31	7140	420	546	4.61	541	-121	0	
72	"	"	"	"	"	"	Teak	35	64	8.87		-	-		-					
													7140		**546**					
75	"	Varakodu	XXIII	20	1987	24.00	Teak	106	42	9.56	3 SP	3.10	30480	1270	1417	3.77	811	459	11027	2010
76	"	"	"	"	"	"	Teak	129	41	10.30		-	-		-					

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77	"	"	"	"	"	"	Teak	146	38	10.38		-	-		-					
													30480		**1417**					
					TOTAL	**710.92**					**Avg**	**68.941**	**510021**	**21295**	**34966**		**20412**	**883**	**78582**	
5	**KARGAL RANGE**		**TEAK PLANTAION NIL.**																	
6	**NAGARA RANGE**		**TEAK PLANTAION NIL.**																	
7	**SAGARA RANGE**																			
1	Sagar	Bellene SF	XV	5	1920	3.40	Teak	23	85	14.99		1.06	**782**	230	**234**	6.22	297	-67	0	
2	Sagar	Avinahalli	XVI	2	1929	3.20	Teak	23	62	8.04		0.87	736	230	63	4.92	475	-245	0	
							Nurukal	3	58	4.67		0.82	96		4					
													832		**67**					
3	Sagar	Avinahalli	XVI	2	1930	20.00	Teak	21	80	9.80		1.14	4200	210	733	5.95	324	-114	0	
							Neelgiri	1	123	18.00		1.76	200		151					
													4400		**884**					
4	Sagar	Avinahalli Badagodu kanu	-	-	1946	2.00	Teak	12	77	8.25		0.04	240	12	33	2.78	344	-224	0	
							Hunalu	2	69	4.00		0.03	40		2					
							Jungle wood	6	79	6.70		0.04	120		14					
													400		**49**					
5	Sagar	Kalkoppa SF	XV	11	1948	4.04	Teak	34	77	11.15		1.43	1374	340	253	5.79	343	-3	0	
							Hunal	13	33	5.42		0.60	525		8					
													1899		**262**					
6	Sagar	Kalkoppa SF	XV	11	1949	4.04	Teak	42	73	11.35		0.04	1697	420	285	5.55	373	47	188	2001
							Hunal	16	44	7.25		0.02	646		25					
							Mathi	5	45	8.60		0.02	202		10					
													2545		**320**					
7	Sagar	Kalkoppa SF	XV	11	1951	2.02	Teak	28	69	11.14		1.32	566	280	82	5.29	410	-130	0	
							Hunal	7	65	9.14		1.26	141		15					
							Eucalyptus	3	94	15.33		1.80	61		23					
													768		**120**					

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8	Sagar	Kalkoppa SF	XV	11	1951	2.82	Teak	31	52	11.96		0.03	874	310	80	4.37	602	-292	0	
							Mathi	19	46	9.26		0.91	536		30					
							Hunal	8	55	10.80		0.03	226		20					
													1636		**130**					
9	Sagar	Kalkoppa SF	XV	11	1953	4.45	Teak	63	67	11.26		0.03	2804	630	390	5.19	427	203	902	2001
							Hunal	9	38	7.22		0.02	401		12					
													3204		**401**					
10	Sagar	Kalkoppa SF	XV	10	1954	4.45	Teak	55	66	9.49		0.03	**2448**	550	**278**	5.13	437	133	503	2001
11	Sagar	Kalkoppa SF	XV	10	1956	10.00	Teak	48	53	7.83		0.03	4800	480	290	4.39	597	-117	0	
							Hunal	10	41	6.70		0.02	1000		32					
							Eucalyptus	2	119	18.00		0.06	200		141					
													6000		**462**					
12	Sagar	Kalkoppa SF	XV	11	1957	22.25	Teak	41	59	10.00	2 SP	1.32	4561	205	447	4.77	505	-300	0	
							Mathi	8	41	7.88		1.00	1446		52					
							Hunal	12	35	6.58		1.11	1780		40					
13	Sagar	"	"	"	"	"	Teak	74	54	10.75		-	-		-					
							Mathi	5	45	10.20		-	-		-					
							Hunal	4	60	9.50		-	-		-					
													7788		**539**					
14	Sagar	Kalkoppa SF	XV	10	1958	8.00	Teak	38	63	8.80		1.50	**3040**	380	**297**	4.99	462	-82	0	
15	Sagar	Avinahalli	XVI	2	1958	8.02	Teak	26	57	9.70		1.36	2085	260	183	4.64	535	-275	0	
							Hunalu	4	50	5.76		1.19	321		13					
							Neelgiri	1	28	3.00		0.67	80		1					
							Mathi	1	56	4.00		1.33	80		3					
													2566		**199**					
16	Sagar	Kalkoppa SF	XV	10	1959	11.77	Teak	40	63	11.98		1.54	4708	400	626	4.99	462	-62	0	
							Hunal	20	51	6.10		1.24	2354		103					
													7062		**729**					
17	Sagar	Kalkoppa SF	XV	10	1959	8.90	Teak	57	64	10.56		1.56	**5073**	570	**608**	5.03	454	116	1031	2001
18	Sagar	Kalkoppa SF	XV	11	1961	10.90	Teak	40	56	10.87		1.43	**4360**	400	**412**	4.57	550	-150	0	
19	Sagar	Kalkoppa SF	XV	11	1962	10.00	Teak	46	55	9.68		1.45	4600	460	378	4.54	559	-99	0	
							Hunal	12	36	7.62		0.95	1200		33					
							Mathi	14	48	9.50		1.26	1400		84					
													7200		**496**					
20	Sagar	Kalkoppa SF	XV	11	1965	20.00	Teak	49	50	10.20	2 SP	1.50	11300	565	815	4.26	634	-69	0	

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							Hunal	18	61	7.75		1.93	2900		232					
							Mathi	13	57	9.87		1.62	2600		231					
21	Sagar	"	"	"	"	"	Teak	64	54	10.50		-	-		-					
							Hunal	11	74	11.00		-	-		-					
													16800		**1278**					
22	Sagar	Avinahalli	XVI	3	1965	20.02	Teak	23	48	7.00	2 SP	1.26	4104	205	184	4.12	677	-472	0	
							Neelgiri	6	70	17.00		1.43	2803		649					
							Hunalu	4	71	9.00		1.51	801		101					
23	Sagar	"	"	"	"	"	Teak	18	40	4.80		-	-		-					
							Neelgiri	22	30	6.10		-	-		-					
							Hunalu	4	35	3.30		-	-		-					
													7708		**934**					
24	Sagar	Kalkoppa SF	XV	11	1966	20.00	Teak	96	53	10.50	2 SP	1.55	18500	925	1492	4.38	599	326	6518	2002
25	Sagar	"	"	"	"	"	Teak	89	53	12.48		-	-		-					2003
													18500		**1492**					
26	Sagar	Kalkoppa SF	XV	10	1967	20.00	Teak	69	42	7.05	2 SP	1.34	6900	345	235	3.76	815	-470	0	
							Hunal	12	48	7.16		1.35	2600		118					
							Mathi	9	49	7.55		1.47	1800		89					
27	Sagar	"	"	"	"	"	Teak	65	47	8.06		-	-		-					
							Hunal	14	41	7.38		-	-		-					
													11300		**442**					
28	Sagar	Ullur SF	XV	9	1967	40.46	Teak	49	60	9.65	4 SP	1.61	25894	640	2497	4.80	498	142	5738	2004
							Hunal	11	51	7.82		0.02	3035		173					2005
29	Sagar	"	"	"	"	"	Teak	54	55	8.65		-	-		-					
							Hunal	19	40	6.61		-	-		-					
30	Sagar	"	"	"	"	"	Teak	73	52	9.23		-	-		-					
31	Sagar	"	"	"	"	"	Teak	80	45	8.65		-	-		-					
													28929		**2670**					
32	Sagar	Avinahalli	XVI	2	1967	10.00	Teak	49	38	5.06		1.15	4900	490	100	3.55	914	-424	0	
							Hunalu	8	52	5.37		1.58	800		32					
							Neelgiri	2	84	13.00		2.55	200		51					
							Yethiga	2	55	6.50		1.67	200		11					
													6100		**194**					
33	Sagar	Kalkoppa SF	XV	11	1968	16.00	Teak	21	48	6.43	2 SP	1.46	5120	320	208	4.10	683	-363	0	
							Hunal	21	34	6.43		1.24	2720		55					
							Mathi	26	40	6.35		1.26	4320		124					
							Eucalyptus	3	33	7.67		1.04	480		11					
							Beete	5	49	6.80		1.53	800		36					
							Honne	4	31	6.13		0.95	640		10					
34	Sagar	"	"	"	"	"	Teak	43	46	8.17		-	-		-					

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							Hunal	13	45	8.10		-	-		-					
							Mathi	28	40	8.06		-	-		-					
													14080		**445**					
35	Sagar	Kalkoppa SF	XV	11	1969	5.66	Teak	48	39	7.50		1.26	2717	480	86	3.61	883	-403	0	
							Eucalyptus	15	83	12.53		2.68	849		204					
							Hunal	18	8	7.52		0.24	1019		1					
													4585		**292**					
36	Sagar	Avinahalli	XVI	3	1969	76.26	Teak	19	54	5.50	8 SP	1.60	22687	298	1012	4.46	577	-280	0	
							Alale	1	32	3.00		1.11	1373		12					
							Maddale	1	71	3.00		1.65	191		8					
37	"	"	"	"	"	"	Teak	17	70	7.60		-	-		-					
							Nerale	1	83	4.00		1.88	667		51					
38	"	"	"	"	"	"	Teak	47	44	5.60		-	-		-					
							Hunalu	6	33	4.00		1.26	5720		69					
							Kavalu	1	50	3.00		1.25	477		10					
39	"	"	"	"	"	"	Teak	30	35	4.63		-	-		-					
							Hunalu	12	35	4.58		-	-		-					
							Mathi	31	35	5.19		1.48	5910		104					
							Channangi	3	29	4.67		1.49	572		6					
							Kavalu	1	27	3.00		-	-		-					
							Kodasa	7	24	3.46		0.95	763		4					
							Salle	2	33	3.50		1.06	1525		16					
							Nerale	1	39	4.00		-	-		-					
							Tumri	1	23	3.00		0.74	763		3					
							Nurukalu	1	42	5.00		1.35	763		19					
							Yethiga	1	34	5.00		1.40	858		14					
							Alale	1	22	3.00		-	-		-					
40	"	"	"	"	"	"	Teak	28	52	6.54		-	-		-					
							Mathi	8	38	4.25		-	-		-					
							Hunalu	8	39	4.62		-	-		-					
							Alale	2	32	3.50		-	-		-					
							Kavalu	2	33	3.50		-	-		-					
							Channangi	1	60	8.00		-	-		-					
							Yethiga	1	58	8.00		-	-		-					
41	"	"	"	"	"	"	Teak	15	38	4.26		-	-		-					
							Mathi	15	36	4.00		-	-		-					
							Channangi	2	50	4.00		-	-		-					
							Nerale	1	65	10.00		-	-		-					
							Hunalu	15	37	4.13		-	-		-					
							Honne	1	31	5.00		1.00	763		10					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Alale	4	31	3.25		-	-		-					
							Tare	1	44	4.00		1.42	763		16					
							Kavalu	1	45	5.00		-	-		-					
							Kodasa	1	35	4.00		-	-		-					
42	"	"	"	"	"	"	Teak	32	52	7.60		-	-		-					
							Hunalu	4	49	5.75		-	-		-					
							Yethiga	2	45	4.50		-	-		-					
							Mathi	3	77	6.00		-	-		-					
43	"	"	"	"	"	"	Teak	50	51	8.42		-	-		-					
							Hunalu	15	42	6.86		-	-		-					
							Yethiga	5	37	7.80		-	-		-					
							Maddale	1	31	8.00		-	-		-					
							Mathi	5	43	8.40		-	-		-					
							Nerale	4	46	6.75		-	-		-					
							Alale	1	55	8.00		-	-		-					
													43792		**1356**					
44	Sagar	Avinahalli	XVI	3	1969	12.74	-	-	-	-		-	-		-					
45	Sagar	Avinahalli	XVI	2	1970	72.84	Teak	29	48	6.62	7 SP	1.42	27770	381	1178	4.12	677	-296	0	
							Hunalu	12	56	5.58		1.49	7739		377					
							Jungle wood	1	43	4.00		1.43	728		15					
46	"	"	"	"	"	"	Teak	54	46	6.90		-	-		-					
							Alale	1	72	8.00		2.40	728		84					
							Hunalu	7	50	5.43		-	-		-					
47	"	"	"	"	"	"	Teak	28	48	5.57		-	-		-					
							Hunalu	18	46	6.67		1.38	6009		236					
48	"	"	"	"	"	"	Teak	28	42	7.11		-	-		-					
							Hunalu	18	38	6.16		-	-		-					
							Kavalu	2	46	5.50		1.28	273		9					
							Mathi	2	32	5.50		1.38	273		4					
							Maddale	1	54	9.00		2.30	182		13					
							Yethiga	2	47	8.50		1.57	1457		76					
49	"	"	"	"	"	"	Teak	46	35	5.61		-	-		-					
							Hunalu	13	40	7.00		-	-		-					
							Kavalu	1	31	5.00		-	-		-					
							Mathi	1	51	10.00		-	-		-					
50	"	"	"	"	"	"	Teak	74	38	7.50		-	-		-					
							Hunalu	10	33	5.40		-	-		-					
							Honne	1	52	8.00		1.73	728		44					
51	"	"	"	"	"	"	Teak	46	41	7.74		-	-		-					
							Hunalu	7	50	5.14		-	-		-					
							Maddale	1	84	10.00		-	-		-					
													45889		**2036**					
52	Sagar	Kalkoppa SF	XV	10	1971	10.92	Teak	36	39	7.00		1.36	**3931**	360	**118**	3.62	876	-516	0	

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
53	Sagar	Kalkoppa SF	XV	10	1971	9.30	Teak	53	40	6.14		1.37	**4929**	530	**134**	3.65	861	-331	0	
54	Sagar	Ullur SF	XV	9	1971	24.28	Teak	74	36	7.40	4 SP	1.35	18089	745	473	3.41	987	-242	0	
							Hunal	37	35	6.56		1.36	5463		122					
							Eucalyptus	5	52	17.20		1.84	668		85					
55	Sagar	"	"	"	"	"	Teak	75	35	7.52		-	-		-					
							Hunal	31	46	8.65		-	-		-					
							Eucalyptus	6	55	17.00		-	-		-					
56	Sagar	"	"	"	"	"	Teak	80	43	7.65		-	-		-					
57	Sagar	"	"	"	"	"	Teak	69	44	7.63		-	-		-					
							Hunal	22	37	7.35		-	-		-					
													24219		**680**					
58	Sagar	Avinahalli	XVI	2	1971	10.00	Teak	81	48	9.33		1.66	8100	810	484	4.12	677	133	1327	2006
								2	57	11.00		1.97	200		20					
								1	108	14.00		3.72	100		45					
													8400		**549**					
59	Sagar	Avinahalli	XVI	2	1971	59.43	Teak	1	34	5.00	2 SP	1.17	594	10	10	3.32	1044	-1034	0	
							Neelgiri	29	59	24.40		2.02	30309		7159					
							Hunalu	2	28	3.00		1.35	8915		58					
							Neelgiri	20	62	21.00		-	-		-					
							Hunalu	7	46	4.10		-	-		-					
							Kavalu	1	43	4.00		1.48	594		12					
							Alale	1	44	5.00		1.40	297		8					
							Neelgiri	23	60	19.17		-	-		-					
							Hunalu	10	39	4.20		-	-		-					
							Alale	1	37	3.00		-	-		-					
							Yethiga	1	47	3.00		1.62	594		11					
							Honne	1	62	8.00		2.14	594		51					
							Neelgiri	54	62	21.87		-	-		-					
							Hunalu	16	53	8.00		-	-		-					
							Mathi	1	48	8.00		2.57	297		15					
							Kadu jathi	1	60	6.00		1.47	1040		62					
60	"	"	"	"	"	"	Neelgiri	33	56	14.69		-	-		-					
							Hunalu	14	38	5.50		-	-		-					
							Kadujathi	6	25	4.00		-	-		-					
							Mathi	1	101	10.00		-	-		-					
							Neelgiri	45	53	20.00		-	-		-					
							Hunalu	11	31	4.40		-	-		-					
													43235		**7387**					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
61	Sagar	Avinahalli Kage halla	XVI	1	1971	72.84	Teak	27	33	4.22	7 SP	1.41	29032	399	371	3.26	1081	-682	0	
							Hunalu	7	33	4.28		1.56	2705		35					
							Tumri	4	31	3.50		1.07	520		5					
							Nurukalu	4	36	4.00		1.24	2914		42					
							Alale	1	41	5.00		1.41	728		17					
							Kavalu	1	33	4.00		1.22	416		5					
62	"	"	"	"	"	"	Teak	21	40	4.42		-	-		-					
							Hunalu	3	27	4.00		1.65	1977		16					
							Mathi	5	42	4.20		1.64	4266		88					
							Jungle wood	2	32	3.50		1.44	728		7					
63	"	"	"	"	"	"	Teak	17	38	4.60		-	-		-					
							Hunalu	1	36	4.00		-	-		-					
							Mathi	26	47	5.26		-	-		-					
							Tare	1	62	7.00		0.02	208		16					
							Kavalu	3	38	4.33		-	-		-					
							Nelli	3	27	5.00		0.93	2185		22					
							Nurukalu	3	29	5.00		1.00	2185		26					
							Nandi	3	45	5.33		1.55	2185		66					
64	"	"	"	"	"	"	Teak	61	51	8.00		-	-		-					
							Mathi	1	56	12.00		-	-		-					
							Hunalu	3	72	9.67		-	-		-					
65	"	"	"	"	"	"	Teak	74	41	7.50		-	-		-					
							Mathi	6	54	8.70		-	-		-					
							Tare	1	26	5.00		-	-		-					
							Hunalu	2	67	10.50		-	-		-					
							Jambe	1	80	12.00		2.98	416		89					
							Neralu	2	78	11.00		2.69	1457		271					
							Jungle wood	2	48	7.50		-	-		-					
66	"	"	"	"	"	"	Teak	52	47	6.85		-	-		-					
67	"	"	"	"	"	"	Teak	27	37	6.11		-	-		-					
							Mathi	3	39	6.33		-	-		-					
							Tumri	1	31	5.00		-	-		-					
							Hunalu	10	37	4.80		-	-		-					
							Jambe	3	93	12.30		-	-		-					
							Jungle wood	3	45	6.33		-	-		-					
													51925		**1075**					
68	Sagar	Kalkoppa SF	XV	11	1972	9.30	Teak	60	39	6.34		1.40	5580	600	152	3.62	876	-276	0	
							Hunal	29	44	6.43		1.59	2697		95					
													8277		**247**					
69	Sagar	Kalkoppa SF	XV	11	1972	5.66	Teak	14	31	5.50		1.11	792	140	12	3.15	1158	-1018	0	

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Hunal	17	40	5.68		1.42	962		24					
							Mathi	17	35	6.12		1.26	962		20					
							Eucalyptus	7	40	7.84		1.44	396		14					
													3113		**70**					
70	Sagar	Kalkoppa SF	XV	10	1972	23.06	Teak	65	49	7.84	2 SP	1.72	18217	790	936	4.15	667	123	2836	2007
							Hunal	8	54	9.37		1.51	2075		160					
71	Sagar	"	"	"	"	"	Teak	93	48	8.34		-	-		-					
							Hunal	10	30	6.00		-	-		-					
													20293		**1096**					
72	Sagar	Kalkoppa SF	XV	11	1972	10.90	Teak	35	47	7.63		1.67	3815	350	176	4.05	703	-353	0	
							Hunal	28	33	6.83		1.17	3052		63					
													6867		**239**					
73	Sagar	Kalkoppa SF	XV	11	1972	6.40	Teak	58	40	6.40		1.42	3712	580	105	3.66	861	-281	0	
							Hunal	38	36	6.76		1.30	2432		61					
													6144		**166**					
74	Sagar	Kalkoppa SF	XV	11	1972	9.30	Teak	57	47	8.04		1.69	5301	570	266	4.08	690	-120	0	
							Hunal	14	61	7.89		2.17	1302		105					
													6603		**371**					
75	Sagar	Avinahalli	XVI	1	1972	28.32	Teak	21	41	7.19	3 SP	1.32	6608	233	222	3.72	831	-598	0	
							Hunalu	11	47	7.00		1.61	5192		223					
							Mathi	9	46	8.22		1.40	1699		82					
							Kodasa	3	34	5.33		1.21	850		15					
							Honge	1	31	2.00		1.11	283		2					
							Maddale	1	58	12.00		2.07	283		32					
							Kavalu	1	38	6.00		1.36	283		7					
							Alale	2	39	7.50		1.39	566		18					
							Yethiga	1	24	3.00		1.02	378		2					
							Kadu jathi	1	24	4.00		1.14	283		2					
76	"	"	"	"	"	"	Teak	24	37	5.50		-	-		-					
							Hunalu	18	51	6.00		-	-		-					
							Mathi	6	37	5.33		-	-		-					
							Tumri	1	35	4.00		1.25	283		4					
77	"	"	"	"	"	"	Teak	25	33	4.28		-	-		-					
							Hunalu	26	37	5.00		-	-		-					
							Mathi	3	35	4.00		-	-		-					
							Yethiga	3	33	5.00		-	-		-					
							Kadu jathi	2	40	5.00		-	-		-					
													16709		**608**					
78	Sagar	Avinahalli	XVI	2	1972	10.00	Teak	52	51	10.76		1.82	5200	520	405	4.29	624	-104	0	
							Hunalu	28	46	8.57		1.64	2800		141					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Yethiga	6	39	8.00		1.39	600		20					
							Kodasa	2	42	7.50		1.50	200		7					
							Alale	1	45	6.00		1.61	100		3					
							Tare	1	44	10.00		1.57	100		5					
							Kavalu	1	41	6.00		1.46	100		3					
							Jambe	1	19	3.00		0.68	100		0					
													9200		**585**					
79	Sagar	Ullur SF	XV	9	1973	24.28	Teak	72	43	7.86	2 SP	1.76	16996	700	702	3.86	771	-71	0	
							Hunal	49	40	8.16		1.58	9833		357					
80	Sagar	"	"	"	"	"	Teak	68	52	10.15		-	-		-					
							Hunal	32	45	8.65		-	-		-					
													26829		**1059**					
81	Sagar	Avinahalli	XVI	1	1973	20.00	Teak	61	46	9.63	2 SP	1.72	9100	455	516	4.01	717	-262	0	
							Yethiga	9	30	8.00		1.11	1800		36					
							Nandi	2	60	9.50		2.22	400		38					
							Maddale	7	58	8.00		1.74	800		60					
							Tadasalu	2	84	12.00		2.91	300		71					
							Jambe	1	25	3.00		1.35	500		3					
							Hunalu	1	87	12.00		2.37	2300		581					
							Mathi	1	50	12.00		1.63	1100		92					
							Jungle wood	3	35	5.00		1.30	600		10					
82	"	"	"	"	"	"	Teak	30	47	7.63		-	-		-					
							Hunalu	22	41	8.40		-	-		-					
							Mathi	10	38	8.50		-	-		-					
							Jambe	4	48	8.50		-	-		-					
							Jagal ganti	2	46	7.50		1.70	400		18					
							Tadasalu	1	73	12.00		-	-		-					
							maddale	1	36	4.00		-	-		-					
													17300		**1423**					
83	Sagar	Ullur SF	XV	9	1974	2.02	Teak	58	42	6.75		1.62	1172	580	39	3.78	804	-224	0	
							Hunal	62	37	6.56		1.41	1252		31					
													2424		**69**					
84	Sagar	Ullur SF	XV	8	1975	18.85	Teak	82	38	6.92	3 SP	1.53	15708	833	438	3.55	912	-78	0	
							Hunal	14	33	3.78		1.48	3016		35					
85	Sagar	"	"	"	"	"	Teak	74	38	6.88		-	-		-					
							Hunal	12	35	5.62		-	-		-					
86	Sagar	"	"	"	"	"	Teak	94	39	7.25		-	-		-					
							Hunal	22	42	8.05		-	-		-					
													18724		**473**					
87	Sagar	Ullur SF	XV	9	1975	18.85	Teak	87	39	7.54	4 SP	1.55	16400	870	517	3.59	891	-21	0	

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Hunal	36	35	6.86		1.38	6786		154					
							Acacia	8	34	6.94		1.20	1445		32					
88	Sagar	"	"	"	"	"	Acacia	7	27	6.71		-	-		-					
							Eucalyptus	24	28	7.73		0.96	4964		81					
89	Sagar	"	"	"	"	"	Eucalyptus	28	25	6.75		-	-		-					
							Acacia	3	32	8.00		-	-		-					
90	Sagar	"	"	"	"	"	Eucalyptus	27	20	6.74		-	-		-					
							Acacia	5	27	7.00		-	-		-					
													29595		**784**					
91	Sagar	Avinahalli	XVI	2	1976	27.92	Teak	33	34	5.60	3 SP	1.63	13774	493	248	3.32	1044	-551	0	
							Hunalu	34	44	7.17		2.06	4746		183					
							Tare	1	45	5.00		1.88	279		8					
							Yethiga	7	38	5.14		1.58	1954		40					
							Kodasa	1	47	4.00		1.42	279		7					
							mathi	3	46	8.00		1.96	465		22					
92	"	"	"	"	"	"	Teak	58	42	8.00		-	-		-					
							Hunalu	11	54	9.00		-	-		-					
							Jagalagantı	3	32	6.00		1.33	838		14					
							Nerale	2	59	9.00		2.46	558		49					
							Mathi	2	48	7.50		-	-		-					
							Kodasa	2	21	3.00		-	-		-					
93	"	"	"	"	"	"	Teak	57	41	6.18		-	-		-					
							Hunalu	6	50	5.16		-	-		-					
							Jambe	1	20	3.00		0.83	279		1					
							Kavalu	1	62	3.00		2.58	279		9					
							Salle	1	40	5.00		1.67	279		6					
							Beete	2	17	3.00		0.71	558		1					
							Kadu jathi	1	21	3.00		0.88	279		1					
							Alale	2	37	5.00		1.54	558		11					
													25128		**600**					
94	Sagar	Avinahalli	XVI	1	1976	4.04	Teak	60	38	5.91		1.58	2424	600	58	3.55	914	-314	0	
							Yethiga	1	22	5.00		0.92	40		0					
							Neelgiri	9	65	13.11		2.71	364		56					
							Hunalu	5	46	8.20		1.92	202		10					
							Mathi	2	82	8.50		3.42	81		13					
							Neralu	9	48	6.50		2.00	364		15					
							Jungle wood	2	33	5.00		1.38	81		1					
													3555		**153**					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
95	Sagar	Bilisiri SF	XV	7	1977	20.00	Teak	83	33	6.50	2 SP	1.60	17100	855	345	3.29	1065	-210	0	
96	Sagar	"	"	"	"	"	Teak	88	40	8.16		-	-		-					
													17100		**345**					
97	Sagar	Bilisiri SF	XV	7	1978	20.00	Teak	39	36	7.30	2 SP	1.55	11100	555	292	3.43	976	-421	0	
							Hunal	12	36	7.29		1.79	270		7					
98	Sagar	"	"	"	"	"	Teak	72	32	6.08		-	-		-					
							Hunal	19	43	6.18		-	-		-					
													11370		**299**					
99	Sagar	Bilisiri SF	XV	7	1979	20.00	Teak	151	36	7.36	2 SP	1.80	30700	1535	820	3.44	972	563	11267	2008
							Hunal	6	30	5.58		1.41	1200		16					2009
100	Sagar	"	"	"	"	"	Teak	156	40	10.65		-	-		-					2010
													31900		**836**					
101	Sagar	Ullur SF	XV	8	1980	18.85	Teak	116	33	6.33	2 SP	1.64	16871	895	318	3.24	1093	-198	0	
							Hunal	12	31	4.83		1.99	270		3					
102	Sagar	"	"	"	"	"	Teak	63	33	6.50		-	-		-					
							Hunal	21	49	7.50		-	-		-					
													17141		**321**					
103	Sagar	Bilisiri SF	XV	7	1981	20.00	Teak	118	35	6.31	2 SP	1.96	21700	1085	476	3.40	997	88	1766	2006
							Hunal	5	30	4.90		1.57	1000		12					
104	Sagar	"	"	"	"	"	Teak	99	39	7.60		-	-		-					
													22700		**488**					
105	Sagar	Bilisiri SF	XV	7	1982	19.23	Teak	54	35	6.13	2 SP	1.74	10192	530	210	3.36	1018	-488	0	
							Hunal	22	44	6.11		2.08	5865		196					
106	Sagar	"	"	"	"	"	Teak	52	28	5.84		-	-		-					
							Hunal	39	31	5.34		-	-		-					
													16057		**405**					
107	Sagar	Ullur SF	XV	8	1982	18.85	Teak	78	32	6.30	2 SP	1.75	12064	640	216	3.20	1122	-482	0	
							Hunal	8	34	4.88		2.22	3205		50					
108	Sagar	"	"	"	"	"	Teak	50	31	6.83		-	-		-					
							Hunal	26	46	5.31		-	-		-					
109	Sagar	Bilisiri SF	XV	7	1985	9.00	Teak	5	22	4.80		1.48	943		6					
							Hunal	13	37	4.88		2.47	2451		46					
													18662		**317**					
					TOTAL	**1005.84**						**74.23**	**732014**	**28387**	**38525**		**40345**	**-11958**	**32075**	
											Avg.	**1**								
8	**SHIKARIPURA RANGE**																			
1	Shikaripua	Gangavanasara	X	14	1941	60.00	Teak	54	26	7.98	6 SP	0.60	20850	348	313	2.86	1405	-1058	0	
2	"	"	"	"	"	"	"	53	28	8.11		-	-		-					

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3	"	"	"	"	"	"	"	21	39	7.71		-	-		-					
4	"	"	"	"	"	"	"	11	48	8.54		-	-		-					
5	"	"	"	"	"	"	Misc	25	16	2.72		0.50	9600		19					
6	"	"	"	"	"	"	"	7	43	11.42		-	-		-					
													30450		**331**					
1	Shiralkoppa	Bhadrapur	IX	7	1956	300.00	Teak	104	38	8.36	30 SP	0.78	131100	437	4401	3.55	914	-477	0	
2	"	"	"	"	"	"	"	60	40	7.56		-	-		-					
3	"	"	"	"	"	"	"	62	32	8.58		-	-		-					
4	"	"	"	"	"	"	"	56	26	7.48		-	-		-					
5	"	"	"	"	"	"	"	51	28	8.84		-	-		-					
6	"	"	"	"	"	"	"	48	29	8.66		-	-		-					
7	"	"	"	"	"	"	"	43	32	9.23		-	-		-					
8	"	"	"	"	"	"	"	49	33	5.18		-	-		-					
9	"	"	"	"	"	"	"	25	32	7.08		-	-		-					
10	"	"	"	"	"	"	"	30	34	3.86		-	-		-					
11	"	"	"	"	"	"	"	17	35	3.23		-	-		-					
12	"	"	"	"	"	"	"	25	21	3.48		-	-		-					
13	"	"	"	"	"	"	"	39	26	5.02		-	-		-					
14	"	"	"	"	"	"	"	79	41	6.34		-	-		-					
15	"	"	"	"	"	"	"	56	41	6.87		-	-		-					
16	"	"	"	"	"	"	"	71	39	5.53		-	-		-					
17	"	"	"	"	"	"	"	29	38	5.51		-	-		-					
18	"	"	"	"	"	"	"	46	27	3.97		-	-		-					
19	"	"	"	"	"	"	"	28	32	3.96		-	-		-					
20	"	"	"	"	"	"	"	42	37	4.23		-	-		-					
21	"	"	"	"	"	"	"	42	37	4.09		-	-		-					
22	"	"	"	"	"	"	"	31	63	4.38		-	-		-					
23	"	"	"	"	"	"	"	37	34	3.00		-	-		-					
24	"	"	"	"	"	"	"	30	32	3.13		-	-		-					
25	"	"	"	"	"	"	"	29	31	2.72		-	-		-					
26	"	"	"	"	"	"	"	52	28	2.94		-	-		-					
27	"	"	"	"	"	"	"	27	42	4.25		-	-		-					
28	"	"	"	"	"	"	"	29	33	3.44		-	-		-					
29	"	"	"	"	"	"	"	34	35	4.17		-	-		-					
30	"	"	"	"	"	"	"	40	34	3.25		-	-		-					
													131100		**4401**					
7	"	Markandaya	IX	14	1962	10.00	Teak	43	59	4.73		1.54	**4300**	430	**195**	4.73	513	-83	0	
8	"	"	"	"	1963	10.00	Teak	33	68	6.36		1.84	**3300**	330	**270**	5.27	415	-85	0	
9	"	"	"	"	1964	14.00	Teak	14	38	9.42		1.06	**1960**	140	**74**	3.55	914	-774	0	
10	"	"	"	"	1965	10.00	Teak	27	37	8.59		1.06	**2700**	270	**88**	3.49	944	-674	0	
11	"	"	"	"	1966	10.00	Teak	38	22	8.42		0.65	**3800**	380	**43**	2.63	1661	-1281	0	

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12	"	"	"	"	1967	10.00	Teak	60	27	8.54		0.82	**6000**	600	**104**	2.92	1351	-751	0	
13	"	Yerekatte	IX	17	1968	38.00	Teak	25	22	7.32		0.69	**9500**	250	**94**	2.63	1661	-1411		
14	"	Yerekatte	IX	17	1969	19.00	Teak	9	19	8.44		0.61	**1710**	90	**14**	2.46	1901	-1811	0	
15	"	Yerekatte	IX	17	1978	8.00	Teak	7	31	7.42		1.41	**560**	70	**11**	3.15	1161	-1091	0	
19	"	"	"	"	1988	10.00	Teak	25	41	8.00		3.42	**2500**	250	**93**	3.72	831	-581	0	
					TOTAL	**499.00**				**77**			**328980**	**3595**	**10120**		**13669**	**-10074**	**0**	
									Avg	**7**										
9	**SHIRALKOPPA RANGE**																			
1	"	Thogarsi	VII	4	1956	35.00	Teak	29	67	11.34	3 SP	1.60	12017	343	1701	5.21	424	-81	0	
2	"	"	"	"	"	"	"	41	65	13.07		-	-		-					
3	"	"	"	"	"	"	"	33	79	12.48		-	-		-					
													12017		**1701**					
4	"	"	"	"	1956	38.00	Teak	26	61	11.03	3 SP	1.48	12160	320	1388	4.87	486	-166	0	
5	"	"	"	"	"	"	"	41	68	12.02		-	-		-					
6	"	"	"	"	"	"	"	29	67	11.00		-	-		-					
													12160		**1388**					
7	"	"	"	"	1958	10.00	Teak	40	79	12.48		1.88	**4000**	400	**866**	5.90	331	69	692	2001
8	"	Thogarsi	"	"	1961	12.00	Teak	31	53	10.90		1.36	**3720**	310	**317**	4.41	592	-282	0	
9	"	Thogarsi	"	"	1963	12.00	Teak	35	40	9.62		1.08	**4200**	350	**180**	3.66	857	-507	0	
10	"	Togari	VII	4	1964	24.00	Teak	29	39	8.13	2 SP	0.79	4720	197	162	3.61	885	-688	0	
11	"	Togari	VII	4	"	"	"	30	18	7.60		-	-		-					
													4720		**162**					
12	"	Kavali	VIII	1	1964	22.66	Teak	28	64	11.07	2 SP	2.24	3097	137	390	5.04	113	-317	0	
13	"	"	"	"	"	"	"	13	97	14.84		-	-		-					
													3097		**390**					
14	"	Kawadi	VII	11	1964	22.66	Teak	34	66	7.58	2 SP	1.78	5136	227	472	5.15	433	-207	0	
15	"	"	"	"	"	"	"	34	62	7.58		-	-		-					
													5136		**472**					
16	"	Kavali	VIII	1	1965	20.00	Teak	30	33	8.40	2 SP	1.06	4667	233	119	3.26	1081	-848	0	
17	"	"	"	"	"	"	"	40	41	9.60		-	-		-					

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													4667		**119**					
18	"	Kawadi	VII	11	1965	20.00	Teak	47	60	8.08	2 SP	1.60	6267	313	507	4.81	497	-184	0	
19	"	"	"	"	"	"	"	47	52	6.53		-	-		-					
													6267		**507**					
20	"	"	"	"	1966	20.00	Teak	39	58	7.51	3 SP	1.79	5467	273	384	4.69	522	-249	0	
21	"	"	"	"	"	"	"	23	64	7.47		-	-		-					
22	"	"	"	"	"	"	"	20	61	6.65		-	-		-					
													5467		**384**					
23	"	Basavanadihalli	VIII	8	1966	50.00	Teak	34	43	4.85	5 SP	1.33	14200	284	354	3.83	782	-498	0	
24	"	"	"	"	"	"	"	29	41	4.41		-	-		-					
25	"	"	"	"	"	"	"	20	46	4.65		-	-		-					
26	"	"	"	"	"	"	"	30	35	3.96		-	-		-					
27	"	"	"	"	"	"	"	29	61	6.79		-	-		-					
													14200		**354**					
27	"	Kawadi	VII	11	1967	20.00	Teak	22	67	7.22	2 SP	1.94	3333	167	300	5.21	424	-257	0	
29	"	"	"	"	"	"	"	28	61	8.17		-	-		-					
													3333		**300**					
30	"	"	"	"	1968	38.44	Teak	9	52	6.22	4 SP	1.56	15857	413	742	4.35	608	-195	0	
31	"	"	"	"	"	"	"	49	48	5.97		-	-		-					
32	"	"	"	"	"	"	"	51	49	6.03		-	-		-					
33	"	"	"	"	"	"	"	56	51	7.96		-	-		-					
													15857		**742**					
34	"	Kavali	VIII	1	1968	38.44	Teak	32	297	7.43	3 SP	5.15	9226	240	16814	18.38	34	206	7917	2002
35	"	"	"	"	"	"	"	26	95	5.80		-	-		-					2003
36	"	"	"	"	"	"	"	14	102	5.92		-	-		-					
													9226		**16814**					
37	"	Basavanadihalli	VIII	8	1969	40.00	Teak	32	62	8.15	4 SP	1.71	17600	440	1533	4.92	475	-35	0	
38	"	"	"	"	"	"	"	49	49	6.48		-	-		-					
39	"	"	"	"	"	"	"	51	47	6.00		-	-		-					
40	"	"	"	"	"	"	"	44	54	7.09		-	-		-					
													17600		**1533**					
41	"	Kawadi	VII	11	1969	40.00	Teak	34	56	7.64	4 SP	1.80	14300	358	953	4.58	549	-191	0	
42	"	"	"	"	"	"	"	36	67	9.11		-	-		-					
43	"	"	"	"	"	"	"	35	49	5.60		-	-		-					
44	"	"	"	"	"	"	"	38	51	6.37		-	-		-					
													14300		**953**					
45	"	Kawadi	VII	11	1970	30.00	Teak	31	63	9.32	3 SP	1.79	9000	300	926	4.98	464	-164	0	
46	"	"	"	"	"	"	"	28	55	7.03		-	-		-					
47	"	"	"	"	"	"	"	31	43	5.19		-	-		-					

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													9000		**926**					
48	"	Chikkasavi	VII	10	1971	20.00	Teak	28	48	5.14	2 SP	1.83	4200	210	138	4.12	677	-467	0	
49	"	"	"	"	"	"	"	35	58	7.34		-	-		-					
													4200		**138**					
50	"	Kawadi	VII	11	1971	10.00	Teak	36	54	8.30		1.86	**3600**	360	**242**	4.46	577	-217	0	
51	"	Udri	VIII	2	1977	34.00	Teak	58	24	7.53	4 SP	0.57	16575	488	200	2.75	1525	-1037	0	
52	"	"	"	"	"	"	"	66	14	7.13		-	-		-					
53	"	"	"	"	"	"	"	57	13	6.64		-	-		-					
54	"	"	"	"	"	"	"	14	1	6.71		-	-		-					
													16575		**200**					
55	"	Basavanadihalli	VIII	8	1992	10.00	Teak	24	45	2.29		5.63	**2400**	240	**31**	3.95	737	-497	0	
					TOTAL	**567.20**						**37.98**	**143004**	**6602**	**26428**		**13413**	**-6812**	**8609**	
											Avg.	**2**								
10	**SORABA RANGE**																			
1	Sorab	Avalagodu SF	III	11	1963	10.00	Teak	45	79	7.35		2.14	4500	450	574	5.90	331	119	1192	2001
							Hunal	6	52	6.25		1.41	600		28					
							Mathi	3	30	5.50		0.81	300		4					
							Niligiri	5	90	15.50		2.43	500		175					
							Nandi	1	35	12.00		0.95	100		4					
													6000		**785**					
2	Sorab	Avalagodu SF	III	11	1964	20.00	Teak	53	65	9.50	2 S.P	1.90	9200	460	1027	5.09	443	17	338	2002
							Hunal	7	58	8.00		1.57	1400		105					
							Niligiri	6	62	12.00		1.48	1100		139					
							Mathi	4	50	10.50		1.64	500		36					
							Nandi	1	49	7.00		1.32	200		9					
3	"	"	"	"	"	0.00	Teak	39	72	9.00		-	-		-					
							Doopa	1	63	7.00		-	-		-					
							Niligiri	5	45	9.50		-	-		-					
							Mathi	1	68	10.00		-	-		-					
													12400		**1316**					
4	Sorab	Hosabale	II	14	1965	5.00	Teak	55	75	14.00	2 S.P	2.20	2150	430	471	5.67	358	72	360	2002
							Maddale	3	30	4.00		0.86	150		2					
5	Sorab	"	"	"	"	0.00	Teak	31	79	14.00		-	-		-					
							Ficus	1	102	14.00		2.91	50		20					
							J-wood	1	74	6.00		2.11	50		5					
													2400		**497**					

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6	Sorab	Kyasanur SF	II	19	1966	20.00	Teak	35	57	6.50	2 S.P	1.57	9000	450	519	4.61	542	-92	0	
							Madarasa	1	64	7.00		1.88	200		16					
							Hunal	3	51	6.00		1.69	600		26					
							Tangadi	2	59	6.40		1.74	400		25					
7	Sorab	"	"	"	"	0.00	Teak	55	50	8.55		-	-		-					
							Hunal	3	64	7.00		-	-		-					
							Mathi	3	49	6.30		1.43	600		25					
													10800		**611**					
8	Sorab	Kyasanur SF	II	19	1968	40.46	Teak	44	58	8.50	5 S.P	1.99	18531	458	1473	4.69	522	-64	0	
							Hunal	1	75	6.00		1.74	1133		106					
							Nandi	2	62	7.00		2.48	647		48					
							Maddale	2	45	5.00		2.28	324		9					
9	Sorab	"	"	"	"	0.00	Teak	51	79	8.50		-	-		-					
							Nandi	6	97	8.50		-	-		-					
							Silveroak	2	53	8.00		1.66	809		51					
							Niligiri	1	141	18.00		4.41	405		403					
							J-wood	10	75	13.00		2.27	1133		230					
10	Sorab	"	"	"	"	0.00	Teak	32	77	8.25		-	-		-					
							Maddale	2	101	12.00		-	-		-					
							Hunal	3	58	6.50		-	-		-					
							Mathi	1	64	7.00		1.67	162		13					
							J-wood	4	70	7.00		-	-		-					
11	Sorab	"	"	"	"	0.00	Teak	42	49	6.50		-	-		-					
							Hunal	6	55	7.50		-	-		-					
							Mathi	1	43	4.00		-	-		-					
							Buruga	1	43	6.00		1.34	405		12					
12	Sorab	"	"	"	"	0.00	Teak	60	56	7.00		-	-		-					
							Muthaga	3	50	4.80		1.56	1214		41					
							Hunal	2	35	6.00		-	-		-					
							Balagane	1	25	8.00		0.78	405		6					
													25166		**2392**					
13	Sorab	Kyasanur SF	II	19	1970	20.00	Teak	52	57	8.50	2 S.P	1.77	11500	575	883	4.64	535	40	799	2002
							Hunal	3	41	6.30		1.70	400		12					
							Mathi	1	43	8.00		2.10	200		8					
							Bamboo	3	105	Clumps		-	-		-					
14	Sorab	"	"	"	"	0.00	Teak	63	49	8.50		-	-		-					
							Mathi	1	83	11.00		-	-		-					
							Hunal	1	61	8.00		-	-		-					
							J-wood	1	59	7.00		1.97	200		14					
													12300		**917**					
15	Sorab	Kajikoppa SF	III	14	1975	4.85	Teak	90	50	12.00		2.00	4365	900	364	4.24	641	259	1256	2003

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Niligiri	4	90	16.00		3.60	194		70					
													4559		**434**					
16	Sorab	Kajikoppa SF	III	14	1976	11.80	Teak	82	58	9.50	2 S.P	2.02	8496	720	755	4.69	522	198	2336	2004
							Niligiri	4	95	13.00		3.96	472		154					2005
							Hunal	4	27	4.50		1.38	1062		9					
17	"	"	"	"	"	0.00	Teak	62	39	8.00		-	-		-					
							Hunal	14	40	6.50		-	-		-					
							Yethiga	1	24	6.00		1.00	118		1					
							J-wood	1	39	6.00		1.63	118		3					
													10266		**923**					
18	Sorab	Kajikoppa SF	III	14	1977	8.09	Teak	65	42	8.00		1.83	5259	650	206	3.78	806	-156	0	
							Hunal	17	45	6.00		1.96	1375		46					
													6634		**253**					
19	Sorab	Kajikoppa SF	III	14	1978	4.04	Teak	34	50	8.50		2.27	1374	340	81	4.24	641	-301	0	
							Jambe	5	35	6.00		1.59	202		4					
							Hunal	3	55	6.00		2.50	121		6					
							Mathi	2	54	8.00		2.45	81		5					
							Tare	1	37	6.00		1.68	40		1					
													1818		**98**					
20	Sorab	Absi SF	II	8	1979	70.00	Teak	74	54	7.00	7 S.P	2.44	39500	564	2201	4.44	584	-20	0	
21	Sorab	"	"	"	"	0.00	Teak	84	51	7.50		-	-		-					
22	Sorab	"	"	"	"	0.00	Teak	31	52	5.50		-	-		-					
							Mathi	1	31	2.00		1.79	2400		13					
							Hunal	14	38	4.50		1.93	4600		83					
							Channangi	5	40	5.00		1.90	3500		78					
23	Sorab	"	"	"	"	0.00	Teak	63	50	6.50		-	-		-					
							Mathi	3	41	4.00		-	-		-					
							Hunal	4	41	5.00		-	-		-					
							Nandi	1	41	4.00		1.84	600		11					
24	Sorab	"	"	"	"	0.00	Teak	59	54	6.25		-	-		-					
							Hunal	11	45	6.00		-	-		-					
							Mathi	7	35	7.00		-	-		-					
25	Sorab	"	"	"	"	0.00	Teak	56	47	5.50		-	-		-					
							Hunal	14	39	5.25		-	-		-					
							Mathi	10	36	5.00		-	-		-					
							Nandi	1	33	4.00		-	-		-					
							Kodache	1	27	3.00		1.29	10800		66					
26	Sorab	"	"	"	"	0.00	Teak	28	52	6.50		-	-		-					
							Mathi	3	45	5.00		-	-		-					
							Nandi	4	42	4.50		-	-		-					
							Hunal	3	40	4.00		-	-		-					
													61400		**2452**					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
27	Sorab	Kajikoppa SF	III	14	1980	44.05	Teak	106	42	6.75	5 S.P	2.29	35240	800	1167	3.78	806	-6	0	
							Tare	1	34	6.00		1.70	441		8					
							Dadasale	1	42	7.00		2.33	176		6					
28	Sorab	"	"	"	"	0.00	Teak	64	45	7.05		-	-		-					
							Muthaga	1	37	6.00		1.85	441		10					
29	Sorab	"	"	"	"	0.00	Teak	74	48	7.50		-	-		-					
							Hunal	1	59	8.00		2.32	1145		89					
							J-wood	2	48	7.50		2.40	881		42					
30	Sorab	"	"	"	"	0.00	Teak	67	49	8.50		-	-		-					
							Hunal	3	48	7.00		-	-		-					
							Jambe	1	44	7.00		2.20	441		17					
							Neralu	1	51	8.00		2.55	441		25					
31	Sorab	"	"	"	"	0.00	Teak	89	45	7.50		-	-		-					
							Hunal	9	32	6.50		-	-		-					
							Beete	2	30	6.50		1.50	881		14					
							Dadasale	1	51	9.00		-	-		-					
													40086		**1379**					
32	Sorab	Kajikoppa SF	III	14	1981	2.90	Teak	92	35	7.50		1.84	2668	920	68	3.38	1009	-89	0	
							Hunal	2	32	6.00		1.68	58		1					
													2726		**69**					
33	Sorab	Kajikoppa SF	III	14	1982	29.08	Teak	38	37	6.00	3 S.P	2.24	20550	707	469	3.49	944	-237	0	
							Hunal	12	41	7.50		2.69	1939		68					
							Mathi	12	47	6.00		3.54	1939		71					
							Tare	1	56	8.00		3.08	388		27					
							Bamboo	15	215	Clum		11.94	4362		0					
34	Sorab	"	"	"	"	0.00	Teak	77	45	8.50		-	-		-					
							Hunal	4	55	8.50		-	-		-					
							Tare	2	55	8.00		-	-		-					
							Mathi	6	39	7.50		-	-		-					
35	Sorab	"	"	"	"	0.00	Teak	97	39	8.50		-	-		-					
							Hunal	4	49	6.00		-	-		-					
							Mathi	2	105	12.00		-	-		-					
							Nandi	1	106	13.00		5.89	291		118					
													29468		**754**					
36	Sorab	Kajikoppa SF	III	14	1983	20.00	Teak	100	48	8.50	2 S.P	2.57	15700	785	837	4.09	687	98	1964	2006
							Hunal	7	45	6.00		2.74	3000		101					
							Mathi	2	47	9.50		3.13	700		40					
							Nelli	1	49	6.00		2.88	200		8					
							J-wood	2	30	8.00		1.76	400		8					
37	Sorab	"	"	"	"	0.00	Teak	57	40	8.00		-	-		-					
							Hunal	23	48	8.00		-	-		-					
							Mathi	5	60	8.00		-	-		-					
							Kavalu	1	46	6.00		2.71	200		7					
							Tare	2	30	8.00		1.76	400		8					

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													20600		**1010**					
38	Sorab	Kajikoppa SF	III	14	1983	10.00	Teak	98	39	7.50		2.29	9800	980	311	3.61	885	95	952	2007
							Hunal	12	32	7.50		1.88	1200		26					
							Mathi	1	56	8.00		3.29	100		7					
							Neralu	1	29	5.00		1.71	100		1					
							Kavalu	2	30	8.00		1.76	200		4					
													11400		**349**					
39	Sorab	Kajikoppa SF	III	14	1984	23.20	Teak	69	39	7.00	3 S.P	2.67	16085	693	476	3.61	885	-191	0	
							Hunal	9	52	8.00		2.83	1237		74					
							Kakke	1	29	6.00		1.81	232		3					
							Jambe	3	30	5.00		2.44	1624		20					
40	Sorab	"	"	"	"	0.00	Teak	64	44	7.00		-	-		-					
							Hunal	1	44	6.00		-	-		-					
							Mathi	2	28	6.00		2.78	232		3					
							Tare	1	29	6.00		1.81	232		3					
41	Sorab	"	"	"	"	0.00	Teak	75	45	8.00		-	-		-					
							Jambe	18	48	7.00		-	-		-					
							Hunal	6	40	6.50		-	-		-					
							Mathi	1	61	7.00		-	-		-					
							Beete	1	32	5.00		2.00	232		3					
							J-wood	4	38	7.50		2.38	928		28					
													20803		**612**					
					TOTAL	**343.47**						**37.98**	**290225**	**10882**	**15198**		**11141**	**-259**	**9196**	
											Avg.	**2**								
					G.TOTAL	**7315.60**						**542.92**	**4459250**	**70761**	**369978**		**203210**	**-48893**	**319754**	
												1.41								

NON - FOREST AREAS

1 AMBLIGOLA RANGE

1	Ambligola	Mylorikoppa	C&D	-	1985	15.00	Teak	109	25	2.50	2 S.P	1.63	16275	1085	71	2.80	1463	-378	0	
							Hunal	1	25	2.00		1.67	150		1					
2	"	"	"	"	"	"	Teak	108	24	2.45		-	-		-					
													16425		**71**					
3	Ambligola	Arishinagare			1988	18.00	Teak	76	32	2.50	2 S.P	2.38	15210	845	108	3.20	1120	-275	0	
							Mathi	3	20	1.90		1.67	540		1					
							Honne	1	16	1.25		1.33	180		0					
							J.W	27	-	-		-	-		-					
4	"	"	"	"	"	"	Teak	93	25	2.25		-	-		-					

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
							Acacia	2	33	5.00		2.75	360		5					
							Nandi	3	20	1.75		1.67	540		1					
							J.W	4	-	-		-	-		-					
													16830		**116**					
					TOTAL	**33.00**						**4.010**	**33255**	**1930**	**0**		**2583**	**-653**	**0**	
2	**ANANDAPURA RANGE**		**TEAK PLANTAION NIL.**																	
3	**ANAVATTI RANGE**																			
1	Anavatti	Puttanhalli	C&D	D	1959	3.23	Teak	13	71	15.76		1.73	**420**	130	**93**	5.44	389	-259	0	
2	Anavatti	Kulaga	C&D	D	1993	10.00	Teak	259	20	5.56		2.86	**25900**	2590	**160**	2.52	1815	775	7748	
					TOTAL	**13.23**						**5**	**26320**	**2720**	**253**		**2204**	**516**	**7748**	
4	**HOSANAGARA RANGE**																			
1	"	Eachalakoppa	-	-	1985	14.00	Teak	130	48	11.27		3.18	**18200**	1300	**1297**	4.10	683	617	8633	
2	"	Kachigebyle	-	-	1985	12.00	Teak	151	44	11.62		2.95	**18120**	1510	**1145**	3.90	754	756	9067	
3	"	H.Malavalli	-	-	1987	15.00	Teak	75	42	9.20	2 SP	3.64	11625	775	530	3.79	801	-26	0	
4	"	"	"	"	"	"	Teak	80	52	11.49		-	-		-					
													11625		**530**					
5	"	Hebbyle	-	-	1988	10.00	Teak	52	52	8.49		4.31	**5200**	520	**328**	4.33	613	-93	0	
6	"	Haridravathi	-	-	1989	10.00	Teak	52	51	49.75		4.60	**5200**	520	**1839**	4.27	632	-112	0	
7	"	Haridravathi	-	-	1989	12.00	Teak	50	50	9.24		4.55	**6000**	500	**386**	4.24	640	-140	0	
8	"	H.Malavalli	-	-	1991	14.00	Teak	33	40	8.01		4.50	**4620**	330	**169**	3.69	845	-515	0	
9	"	Beghalli	-	-	1993	10.00	Teak & Eucalyptus	57	19	2.52		2.74	**5700**	570	**15**	2.47	1886	-1316	0	
					TOTAL	**97.00**					**Avg**	**30.460.66**	**74665**	**6025**	**5708**		**6854**	**-829**	**17700**	
5	**KARGAL RANGE**		**TEAK PLANTAION NIL.**																	

Sl.No	Name of Range	Locality	Block	Comp	Year of Plantation	Extent in Ha.	Species	Total no. of trees	Average Girth (Cms)	Average Height (mt)	SP	Mean annual girth	Total no of trees	Total no of trees per ha	Present volume in M3	Espacement	Stems to be retained	No of stems to be removed per ha	Total stems to be removed	Year of Thinning
6	**NAGARA RANGE**		**TEAK PLANTAION NIL.**																	
7	**SAGARA RANGE**																			
1	Sagar	Mulkere	-	-	1989	10.00	Teak	53	39	8.33	2 SP	3.06	4700	470	163	3.59	893	-423	0	
							Hunal	4	103	11.25		7.79	400		133					
2	Sagar	"	"	"	"	"	Teak	41	29	6.37		-	-		-					
							Hunal	4	68	8.87		-	-		-					
3	Sagar	Maruru	-	-	1989	10.00	Teak	15	41	7.70		3.77	1500	150	55	3.75	819	-669	0	
4	Sagar	Keladi Masur	-	-	1989	10.00	Teak	9	22	5.83		2.01	900	90	7	2.64	1653	-1563	0	
							Acacia	28	60	13.77		0.03	2800		388					
5	Sagar	Telaginamane	-	-	1989	6.00	Teak	5	17	4.10		1.56	500	83	2	2.36	2071	-1987	0	
							Hunalu	16	48	5.59		4.39	1600		58					
							Acacia	4	56	8.00		5.05	400		27					
6	Sagar	Maruru	-	-	1990	10.00	Teak	24	30	6.44		2.98	2400	240	38	3.08	1216	-976	0	
							Acacia	11	78	8.27		7.81	1100		154					
7	Sagar	Khandika	-	-	1990	1.80	Teak	4	16	3.25		1.63	400	222	1	2.30	2170	-1947	0	
							Acacia	17	39	5.47		3.90	1700		39					
							Hunalu	3	76	5.83		7.60	300		28					
													18700		**1094**					
8	Sagar	Marse	-	-	1991	18.00	Teak	5	20	2.90	2 SP	2.18	900	50	3	2.49	1846	-1799		
9	Sagar	"	"	"	"	"	Acacia	23	72	8.63		8.04	3510		433					
							Acacia	16	73	10.78		-	-		-					
													4410		**436**					
10	Sagar	Bellenne	-	-	1991	12.50	Teak	57	15	4.00		1.67	7125	570	18	2.23	2311	-1741	0	
							Eucalyptus	6	109	21.50		12.15	750		536					
													7875		**554**					
11	Sagar	Bandagadde	-	-	1991	12.00	Teak	27	22	3.83		2.43	**3240**	270	**17**	2.63	1669	-1399	0	
12	Sagar	Bilaki Bilagunji	-	-	1991	12.00	Teak	3	15	4.00		1.63	360	30	1	2.21	2351	-2321	0	
							Acacia	17	17	6.12		1.89	2040		10					
													2400		**11**					
13	Sagar	Malve	-	-	1991	28.00	Teak	4	15	3.25	3 SP	1.71	560	20	1	2.25	2282	-2262	0	
							Hunalu	3	89	4.50		9.85	840		83					
							Acacia	8	44	4.94		3.98	4107		107					
14	Sagar	"	"	"	"	"	Teak	2	16	3.25		-	-		-					
							Mathi	3	32	3.83		3.56	840		9					
							Acacia	21	32	5.23		-	-		-					
15	Sagar	"	"	"	"	"	Acacia	15	32	5.27		-	-		-					
													6347		**200**					
16	Sagar	Sydur	-	-	1992	20.00	Teak	28	28	5.64	2 SP	3.56	5600	280	71	3.00	1276	-996	0	

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							Mathi	5	28	4.80		3.41	1000		11					
							Nandi	8	29	4.94		3.89	4600		53					
							Thari	13	22	4.69		1.38	1600		10					
17	Sagar	"	"	"	"	"	Nandi	38	33	4.74		-	-		-					
							Mathi	5	26	4.60		-	-		-					
							Thari	3	0	0.00		-	-		-					
							J-wood	4	0	0.00		0.00	800		0					
													13600		**145**					
18	Sagar	Shiruvala	-	-	1995	12.00	Teak	166	15	2.00	2 SP	0.01	19080	1590	24	2.23	2311	-721	0	
19	"	"	"	"	"	"	Teak	149	15	2.00		-	-		-					
							Teak	3	21	13.00		-	-		-					
													19080		**24**					
20	Sagar	Shiruvala	-	-	1995	9.00	Teak	122	15	2.00		3.00	**10980**		**14**					
21	Sagar	Lavigere	-	-	1995	20.00	Teak	122	15	2.00	2 SP	3.00	24400	1220	31	2.23	2311	-1091	0	
							Nelli	5	15	2.00		3.00	1000		1					
							Neralu	6	15	2.00		3.00	1200		2					
22	"	"	"	"	"	"	Acacia	33	24	5.56		4.76	6600		58					
							Honne	2	34	4.00		6.70	400		5					
													33600		**96**					
23	Sagar	Bheemaneri	-	-	1995	15.00	Teak	29	23	2.00		4.60	4350	290	13	2.69	1591	-1301	0	
							Acacia	206	23	2.00		4.60	30900		91					
													35250		**104**					
24	Sagar	Malve	-	-	1996	10.00	Teak	83	6	1.30		3.75	8300	830	7	1.72	3909	-3079	0	
							Hunalu	4	25	3.25		6.25	400		2					
							Mathi	2	22	3.50		5.38	200		1					
							Bamboo	7	Clump	3.00		-	700		-					
													9600		**10**					
25	Sagar	Bheemaneri	-	-	1997	13.00	Teak	13	6	1.00		2.00	1690	130	1	1.72	3909	-3779	0	
							Halasu	5	6	1.00		2.00	650		0					
							Nelli	12	6	1.00		2.00	1560		1					
							Nandi	5	6	1.00		2.00	650		0					
							Acacia	106	6	1.00		2.00	13780		9					
							Mango	2	6	1.00		2.00	260		0					
													18590		**12**					
26	Sagar	Kaspadi	-	-	1997	10.00	Teak	46	6	1.00		2.00	**4600**	460	**3**	1.72	3909	-3449	0	
27	Sagar	Kanagodu manchale	-	-	1997	10.00	Teak	58	6	1.50		2.00	5800	580	5	1.72	3909	-3329	0	
							Honne	58	6	1.50		2.00	5800		5					

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							Jungle wood	58	6	1.50		2.00	5800		5					
													17400		**16**					
28	Sagar	Bellenne	-	-	1997	10.00	Teak	72	6	1.50		2.00	**7200**	720	**7**	1.72	3909	-3189	0	
					TOTAL	**259.30**					**Avg.**	**36.962**	**212872**	8295.6	**2741**		46315	-38020	0	

8 SHIKARIPURA RANGE **TEAK PLANTAION NIL.**
9 SHIRALKOPPA RANGE **TEAK PLANTAION NIL.**
10 SORABA RANGE **TEAK PLANTAION NIL.**

					G.TOTAL	**402.53**						**76**	**347112**	**18971**	**8703**		**57956**	**-38986**	**25448**	
					Forest & Non Forest Total	**7718.13**						**619**	**4806361**	**89731**	**378681**		**261166**	**-87878**	**345203**	

Annexure – 16

Details of lands transferred from Sagar division to Mysore Paper Mills Ltd, Bhadravathi.

Mysore paper Mills (MPM) limited, Bhadravathi is a public sector under taking of the Government of Karnataka founded in the year 1936 for the production of cultural paper. Production capacity of the Mill was enhanced gradually and had gone up considerably from 4000 metric tons of cultural paper to begin with to 90,000 metric tons of news print and 37,000 metric tons of cultural paper per annum by 1984. The company had depended solely on Karnataka Forest department for its raw material supply such as Bamboo and Eucalyptus in the earlier years. With the changed production capacity, the company needed more raw materials the department could provide The Government vide G.O No. FFD/27/FDP/79 dtd 11 August 1980 had ordered to lease 30,000 ha of barren and degraded forest lands in Shimoga and Chikmagalur districts. In compliance with the Government order, the 22000-Acre or 8903.27 hectares of forest land were transferred to M/s MPM Ltd from Sagar division. The details are as follows.

1. Govardhanagiri SF 3000 acres.
2. Muppani SF A&B Block 1000 Acres.
3. Kudrur SF 1000 Acres.
4. Karni SF 3000 Acres.
5. Kavaledurga SF 2000 Acres.
6. Kilandur SF 3000 Acres.
7. Karadibetta SF 4000 Acres.
8. Gangavvanasara SF 5000 Acres.

Total- 22000 Acres (8903.27 Ha)

In addition to the above lands, an additional area of 949.59 ha of forest lands was transferred to the MPM Ltd on 28.9.96 as detailed below.

Sl. No	Name of the village	SY.No	Year of Planting	Name of the Plantation	Extent in Ha
1	Kerehitlu	29	1993	Kerehitlu I	18.50
2	Kerehitlu	29	1993	Kerehitlu II	40.00
3	Channagonda	165,166,22	1993	Madenagodu I	25.00
4	Channagonda	165,166,225	1993	Madenagodu I I	21.00
5	Bobige	11,12,82,145	1993	Mincha	20.00
6	Bobige/ Channagonda	225	1993	Hulikal	16.00
7	Kanapaguru	83	1993	Hosagadde I	19.00
8	Kanapaguru	96	1993	Hosagadde I I	15.00
9	Haravatti	67	1993	Edavani I	30.00
10	Haravatti/ Iduvani	67,26	1993	Edavani I I	35.00
11	Malandur	157	1993	Adur I	25.00
12	Malandur	157	1993	Adur I I	25.00

13	Valur	26	1993	Valur I	15.00
14	Valur	26	1993	Valur I I	11.00
15	Nagodi	200	1993	Yalagaru I	12.00
16	Nagodi	200	1993	Yalagaru I I	9.00
17	Marathi/Shankanna shanbag	48,176	1993	Talaneri I &II	17.00
18	Malandur	157	1994	Adur I	30.00
19	Malandur	157	1994	Adur I I	32.00
20	Malandur	157	1994	Malandur	15.00
21	Mumbal	29	1994	Mumbal	45.00
22	Kanapagaru	159,166	1994	Kanapagaru I	32.00
23	Kanapagaru	56	1994	Kanchigadde I	11.00
24	Kanapagaru	56	1994	Kanchigadde I I	13.00
25	Kanapagaru	83	1994	Hosagadde	12.00
26	M.Talakalale	151	1994	Jog II	21.00
27	Channagonda	552	1994	Myarhalli Extn	8.00
29	Kattinkaru	97	1994	Kattinkaru B	13.00
30	Kattinkaru	242	1994	Padabbedu	28.00
31	Kattinkaru	324	1994	Athimane	16.00
32	Kattinkaru	324	1994	Yadamane	21.00
33	Karni/ Kodanahalli	126,160	1994	Abbenahalli	36.00
34	Kodanahalli	126,165,169	1994	Abbenahalli	22.00
35	Kattinkaru/ Karni	206,251	1994	Baligikodlu I	43.00
36	Karni	122,126	1994	Baligikodlu I I	44.00
37	Karni	122	1994	Baligikodlu	11.00
38	Valur/ Nagodi	38,200	1995	Holagar Beat A&B	21.00
39	Channashettikoppa	18	1995	Channashettikoppa	18.00
40	Malandur	157	1995	Malandur	25.00
41	Channagonda	92	1995	Malmanji	16.00
42	Honnagalu/ Channagonda	115,195,196	1995	MalakandurI &II	32.00
43	Honnagalu/ Channagonda	115,165,166	1995	Malakandur I & III	19.30
44	Honagallu	114,115	1995	Malakandur IV	11.79
				Total	**949.59**

Ever since the Forestlands were handed over to the company, It has been successfully trying to bring the degraded lands under plantations. Many successful plantations also have been raised in the lands leased out to the firm by the company. So far **3157.84** ha of plantation mainly of *Acacia auriculiformis* have been raised.

The company manages its plantations as per a management plan approved by the Government of India. Plantations managed by the MPM limited are shown in Map – 24.

Annexure – 17

Details of areas transferred to the Karnataka Forest Development Corporation Ltd. from Sagar forest division

The Karnataka Forest Development Corporation took its birth in the year 1971 with the main object of raising industrial pulpwood plantations like Eucalyptus, Rubber and Cocoa.

As per Government order. No FFD/12/FAD/71 dated 2.7.1976 and AHFF/93/FDC/77 dated 10.4.1987, the Karnataka Forest Department has transferred 25,373.75 hectares of Eucalyptus plantations raised over the years to the KFDC Ltd, which was earlier called Plantation Corporation Ltd, on lease basis. Of the 25,373.75 ha of plantations 2127.12 ha plantations raised by the KFD was handed over from Sagar Division. Besides, 5682.06 ha plantations have been raised by the KFDC Ltd.

KFDC is a Government undertaking and its primary concern is the enhanced production of pulpwood. The corporation manages its plantations as per a management plan approved by the Government of India. Plantations managed by the KFDC are shown in Map – 24.

DETAILS OF PLANTATIONS RAISED BY KFDC LTD ON LANDS FROM THE FOREST DEPARTMENT IN SORABA UNIT.

Sl. No.	Name of the Plantation	Year	Extent	
			Raised by K.F.D.C	Transferred from K.F.D
1	2	3	4	5
1	Kanle	1967	00	40.48
2	Eduvani	1969	00	72.06
3	Yelegalale	1968	00	54.65
4	Talagadde	1970	00	44.53
	Talagadde	1960-70	00	80.97
5	Tekkur Block - I	1977	60.75	-
	Tekkur Block - II	1977	20.24	-
	Tekkur Block - II	1978	41.70	-
6	Balekoppa Block - I	1978	37.25	-
	Balekoppa Block - II	1978	25.10	-
	Balekoppa Block - II	1977	50.30	-
7	Absi	1972	31.17	-
	Absi	1975	36.44	-
	Absi	1876	15.18	-
8	Bettadakurli	1971	00.00	11.74
9	Tallur Block - I	1979	57.89	-
	Tallur Block - II	1979	43.72	-
	Tallur Block - III	1979	53.03	-
	Tallur Block - I	1976	33.81	-
	Tallur Block - II	1976	35.83	-
	Tallur Block - II	1977	62.35	-
	Tallur Block - II	1986	62.00	-

	Hirehidagodu	1987	80.48	-	
10	Kavali Block - I	1983	29.90	-	
	Kavali Block - II	1983	13.73	-	
	Kavali Block - II	1982	52.50	-	
	Kavali Block - II	1981	36.40	-	
	Kavali Block - II	1980	53.20	-	
	Talagundi	1980	67.80	-	
11	Togarsi	1961-63	00.00		42.51
	Kodihalli	1982	67.85	-	
	Kodihalli	1983	90.00	-	
	Togarsi	1984	80.00	-	
12	Udri "A"	1972	12.55	-	
	Udri "C"	1972	15.59	-	
	Udri "C"	1976	28.74	-	
	Udri "C"	1988	51.08	-	
13	Devikoppa	1978	33.60	-	
	Devikoppa	1979	45.34	-	
14	Kodakani	1974	200.40	-	
	Kodakani Block - I	1977	40.49	-	
	Kodakani Block - II	1977	40.49	-	
	Kodakani Block - III	1977	40.49	-	
15	Guddahosahalli	1988	51.50	-	
	Guddahosahalli	1967-71	00.0		105.26
16	Kyasanur	1972	48.48	-	
	Kyasanur	1973	15.38	-	
	Kyasanur	1974	9.51	-	
	Kyasanur	1968	0.00		40.48
17	Belalndur	1972	22.47	-	
	Belalndur	1973	9.51	-	
	Belalndur	1974	8.50	-	
	Belalndur	1971	00.00		13.36
18	Kavade	1972	20.65	-	
	Kavade	1975	19.02	-	
	Kavade	1968	00.00		80.97
19	Chikkasavi	1972	12.55	-	
	Chikkasavi	1973	20.24	-	
	Chikkasavi	1968	00.00		40.48
20	Arekoppa	1984	22.80	-	
	Arekoppa	1968	00		40.48
21	Basavanandihalli	1980	32.00	-	
	Biliki Block - I	1980	26.00	-	
	Biliki Block - II	1980	10.00	-	
	Basavanandihalli	1983	26.50	-	
	Basavanandihalli B - I	1985	71.00	-	
	Basavanandihalli B - II	1985	29.00	-	
	Basavanandihalli B - II	1987	53.70	-	
	Basavanandihalli B - II	1988	175.70	-	
	Basavanandihalli B - II	1970	00		13.76

	Koratikere	1967	00.00	101.21
22	Muthuge	1982	22.29	-
	Muthuge	1984	34.70	-
	Muthuge	1985	70.00	-
	Muthuge	1986	68.30	-
	Muthuge	1987	47.00	-
23	Jamboor Block - I	1976	44.13	-
	Jamboor Block - II	1976	37.25	-
	Jamboor Block - III	1976	40.89	-
	Jamboor Block - I	1977	40.49	-
	Jamboor Block - II	1977	40.49	-
	Jamboor Block - III	1977	59.11	-
	Jamboor Block - IV	1977	21.86	-
	Jamboor Block - "B"	1977	17.81	-
	Jamboor Block - "B"	1978	35.63	-
	Jamboor Block - "B"	1980	8.80	-
		Grand total	**3020.35**	**782.94**

STATEMENT SHOWING THE LIST OF PLANTATIONS RAISED BY K.F.D.C AND TRANSFERRED FROM FOREST DEPARTMENT IN SHIKARIPURA UNIT OF SHIMOGA DIVISION.

Sl. No.	Name of the Plantation	Year	Extent	
			Raised by K.F.D.C	Transferred from K.F.D
1	**2**	**3**	**4**	**5**
1	Gilalgundi	1968	00	17.00
2	Malali	1964	00	20.24
3	Jeni	1967	00	80.97
4	Kodur	1962	00	40.48
	Baragod	1969	00	28.34
5	Sharmanavathi	1967	00	24.28
	Sharmanavathi (Mumbar)	1964	00	46.55
6	Haridravathi	1967	00	40.48
	Hiriyogi	1967	00	40.48
7	Chipli	1973	40.48	00.00
	Chipli	1962	00	121.45
8	Igibnyle	1968	00	18.62
9	Adur	1967	00	24.29
	Adur	1968	00	37.90
10	Malandur	1970	00	17.81
11	Hiriyarka	1971	00	202.42
12	Konehosur	1963	00	178.13
13	Mastibyle	1969	00	40.48
14	Kattigehalla	1969	00	40.48
15	Bugadisara	1968	00	40.48
16	Koragi	1972	41.50	00.00
	Koragi	1968	00	38.46

	Koragi	1970	00	42.10
	Koragi	1971	00	20.24
17	Choradi	1964	00	182.50
18	Gangavanasara	1983	42.40	**1344.18**
	(Kagenahalli Block)			
	(Kagenahalli Block)	1984	141.30	
	(Kagenahalli Block B - I)	1985	111.00	
	(Kagenahalli Block B - II)	1985	67.00	
	(Kagenahalli Block B - III)	1985	3.60	
	(Kagenahalli Block B - III)	1986	72.80	
	(Kagenahalli Block B - III)	1987	128.10	
	(Kagenahalli Block B - III)	1988	71.68	
19	Gangavanasara	1988	93.14	
	(Hullinakatte side)			
		1987	52.66	
		1987	29.22	
		1986	3.80	
		1986	49.30	
		1985	29.00	
		1983	47.67	
		1982	42.40	
		1981	26.00	
		1980	34.40	
		1974	6.57	
20	Syadalkoppa	1977	28.34	
21	Kotipura	1977	45.75	
22	Manchikoppa	1980	34.40	
	Basavanandihalli	1980	14.40	
		1981	61.20	
		1982	93.72	
		1983	59.70	
23	Jakkanahalli	1979	51.42	
	Jakkanahalli	1980	19.60	
24	Jamboor B - I	1978	38.87	
	Jamboor B - II	1978	47.37	-
		1980	21.60	-
25	Chandrakala	1972	32.10	-
26	Belandur B - I	1976	18.42	-
	Belandur B - II	1976	33.60	-
	Belandur B - III	1976	14.78	-
	Belandur B - I	1977	47.37	-
	Belandur B - II	1977	40.49	-
	Belandur B - III	1977	14.57	-
27	Malandur	1972	34.62	-
	Malandur	1973	40.49	-
28	Harigehalla	1988	54.19	-
	Harigehalla	1977	37.65	-
	Harigehalla	1975	66.80	-

	Harigehalla	1974	76.11	-
29	Salur	1987	92.42	-
	Salur	1988	25.30	-
30	Taralagatta	1973	99.19	-
31	Yerekatte Block-II	1972	20.85	-
	Yerekatte Block-II	1984	13.50	-
	Yerekatte Block-II	1985	21.00	-
	Yerekatte Block-II	1986	22.00	-
32	Markandeiah	1972	13.16	
33	Gangavanasara	1972	88.78	
34	Joga	1975	46.15	
		1976	30.97	
		1977	32.39	
		1980	25.60	
		1983	9.30	
		Grand total	**2661.71**	**1344.18**

Annexure - 18

STATEMENT SHOWING THE VFC'S POSITION AND THEIR PRESENT STATUS

Range	Name of the VFC	Date of formation of VFC	Date of Registration	Date of microplan preparation	Date of MOU signed	Total members of VFC	Details of members				Benefits provided GG,AO, SC,DST	Geogra phical area	Total Forest with-in 5 Km from the VFC HQ (For Protn)	Extent forest lbeyond 5 km from the VFC HQ	Distnce of VFC HQ from Range HQ	No. of artisan s	Extent of plantaions raised in 99-2000(Shari ng)	Remarks
							M	F	SCST									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Ambligola	Balandur	30.03.1996	11/1995-96 30.03.1996	15.07.1996	-	92	89	3	3	NTFP - 6 Ha (97-98)	-	3283.27	1320.00	500.30	12 Km	22	6.00	Belandur SF Comp 8 & 12 915.00 ha Forest 405.00 ha Mufath Land
	Mudba-Siddapur	07.12.1996	16/1996-97 07.12.1996	20.12.1998	-	156	151	5	28	NTFP-11.05 ha (98-99)	-	2082.23	628.00	853.02	8 Km	8	26.05	588.00 ha Belandur S.F. 40ha Gomal
										NTFP-10.00 ha FW 5.00Ha (99-00)								
	Kalmane	07.12.1996	17/1996-97 07.12.1996	-	-	167	125	42	98	-	-	2993.00	410.00	790.00	21 Km	9	-	Not Working
Anvatti	Puttanahalli	23.11.1995	3/1995-96 23.11.1995	18.05.1996	29.09.1997	113	109	4	13	NTFP - 5.00 ha NTFP- 10.00 Ha (96-97)	-	261.74	25.00	-	16 Km	1	18.25	Plantation is raised in C&D Lands
										Teak 3.25 ha (97-98)								
	Nittakki	21.06.1996	1/1996-97 21.06.1996	29.11.1996	29.9.1997	56	54	2	9	NTFP - 5.00ha Teak - 10.00ha (96-97)	-	351.20	87.90	-	13 Km	-	32.00	Nittikki Kans Survey No 1 & 45
										Teak 5.00ha NTFP 2.00ha (97-98)								
										NTFP 10.00ha (99-00)								
	Anvatti	26.12.1996	18/1996-97 26.12.1996	-	-	100	95	5	50	-	-	-	-	-	-	-	-	Not Working
	Negavadi	26.12.1996	19/1996-97 26.12.1996	28,29 30.11.1996	29.09.1997	278	275	3	59	Teak 5.00ha FW 5.00 ha (96-97) Teak 6.00ha NTFP 5.00ha FW 6.00ha (97-98	GG - 10 AO - 10	2170.20	3000.00	400.00	7 Km	3	27.00	Plantation raised in Gomal Lands SY No 258

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Hirechowti	15.11.1997	5/1997-98 15.11.1997	04.05.1998	14.10.1998	124	115	9	41	FW-10.00ha NTFP 10.00ha (98-99)	GG-25 AO-50 DST-1	1020.00	-	-	8 Km	2	20.00	Plantaion raised in Gomal Land Sy No 121,182 & 200.
	Kuppagadde	15.11.1997	6/1997-98 15.11.1997	25.03.1998	28.09.1998	268	262	6	10	FW-15.00ha Teak 5.00ha NTFP 5.00ha (97-98)	AO-10 DST-1	4329.30	1287.16	-	12 Km	-	55.00	Plantaion raised in Gomal Land Sy No 279 & Kuppagadde SF Compt 4.
										FW-10.00ha NTFP-20.00ha (98-99)								
Anandapuram	Kunehosur	13.03.1996	9/1995-96 13.03.1996	12.06.1996	24.11.1997	68	63	5	16	NTFP - 5.00ha FW - 5.00ha (98-98)	AO - 3	1031.97	627.28	404.69	13 Km	5	10.00	Plantations raised in Revenue Lands
	Balli byle	23.09.1996	6/1996-97 26.09.1996	-	-	70	69	1	1	-	-	-	-	-	-	-	-	Not Working
	Aduru	17.01.1997	21/1996-97 17.01.1997	21.01.1997	22.05.1997	102	99	3	30	FW -5.00 ha Teak 5.00ha (97-98)	AO - 10	1051.00	305.00	-	28 Km	-	26.00	Plantations raised in Adur MF
										Teak -8.00ha (98-99) FW-8.00ha								
	Sampalli	20.02.1997	22/1996-97 20.02.1997	26.05.1997	-	24	24	-	-	NTFP - 5.00ha FW -5.00ha (98-99)	AO - 10 GG - 10	400.00	80.00	-	36 Km	-	10	Planatation raised in Revenue Lands
	Tavarehalli	27.11.1997	10/1997-98 27.11.1997	25.02.1998	-	137	116	21	38	NTFP -20.00ha (99-00)	-	500.00	100	-	25 Km	-	20.00	Plantations raised in Adur MF
Hosa nagara	Behali VFC Mumbharu	11.01.1996	5/1995-96 11.01.1996	24.05.1996	19.06.1997	121	119	2	25	NTFP -20.00ha (97-98)	AO - 20	7819.34	633.26	960.18	18 Km	3	20.00	Plantation raised in Behalli RF
	Hiriyogi	-	-	-	-	-	-	-	-	NTFP-15.00ha (98-99)	-	-	-	-	-	-	15.00	Plantation raised in Kolagi SF
	Sonle	23.09.1996	3/1996-97 23.09.1996	06.12.1996	16.06.1997	78	74	4	16	NTFP - 15.00ha (97-98) FW 15.00ha	AO - 10	946.18	946.18	1383.25	20 Km	4	30.00	
	Harathalu	23.09.1996	5/1996-97 26.09.1996	10.02.1997	22.09.1997	48	46	2	4	NTFP - 10.00ha FW-30.00ha (99-00)	-	922.30	553.13	840.01	26 Km	4	40.00	Plantation raised in Harthal SF

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	Haniya	20.11.1997	8/1997-98 20.11.1997	05.02.1998	-	52	51	1	10	NTFP - 10.00ha (97-98)	GG-10 AO-10	709.34	584.36	736.24	8 Km	2	10.00	Plantation raised in Haniya SF
Kargal	Shankanshanubhog	08.03.1996	8/1995-96 08.03.1996	23.5.96 to 24.5.96	23.06.1997	91	89	2	13	FW - 10.00ha (97-98) NTFP - 25.00ha (98-99) NTFP-25 ha (99-00) FW-5.00 ha (99-00)	-	-	-	-	120Km	-	60.00	30.00ha raised in Kodachadri SF
	Henni VFC Talakalale	22.11.1996	10/1996-97 22.11.1996	01.05.1997	14.03.1998	35	34	1	35	NTFP - 10.00ha (97-98)	GG - 35 AO - 60	-	-	-	32 Km	-	10.00	Plantation raised in Jog SF compt no 9&10.
	Brahmankeppige	22.11.1996	13/1996-97 22.11.1996	06.01.1997	30.06.1997	139	133	6	53	FW 20.00 ha (97-98) FW 10.00ha (98-99) FW 20.00ha (99-00)	-	-	-	-	132 Km	-	50.00	Plantation raised in revenue lands.
	Kalasavalli	15.11.1997	7/1997-98 15.11.1997	08.01.1999	-	32	32	-	13	NTFP - 10 Fuel wood-10	GG-10 AO-50	-	-	-	-	-	-	
Nagara	Brahmanawada	11.01.1996	6/1995-96 06.01.1995	5.6.96 to 6.6.96	23.09.1997	59	52	7	13	NTFP 10.00 (97-98) NTFP 5.00 ha (98-99) NTFP 6.00ha (99-00)	-	1250.57	53.84	-	6 Km	-	21.00	Plantation Raised in Bramhanawada Un classified Sy no 56
	Khairgunda	25.07.1996	2/1996-97 25.07.1996	2,3,4.12.1996	20.06.1997	40	30	10	8	NTFP 8.00 ha (97-98) FW 10.00 ha (98-99) FW 10.00 ha (99-00)	AO - 122	1378.49	1211.04	-	20 Km	-	28.00	Plantation raised in revenue lands.
	Sulgodu	22.11.1996	7/1996-97 22.11.1996	07.02.1997	10.09.1997	51	40	11	6	NTFP - 10.00 ha (98-99) NTFP - 10.00ha (99-00)	AO - 10 AO - 2	1342.71	1228.95	-	26 Km	5	20.00	Plantation raised in revenue lands. 10ha raised in Sulagodu RF
	Andagadadduru	08.09.1997	3/1997-98 08.09.1997	04.02.1998	02.12.1998	82	79	3	7	NTFP - 20.00ha (99-00) FW 10.00 (98-99)	GG- 3 AO-5	1253.67	988.78	-	10 Km	3	30.00	Plantation raised in C&D class lands.
	Nidagodu	27.01.1999	1/1998-99 27.01.1999	-	-	77	61	16	2	FW-10.00 ha (99-00)	-	1050.27	973.04	-	20 Km	-	10.00	Plantation raised in revenue lands.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Sagara	Belleegge	11.01.1996	4/1995-96 11.01.1995	20.5.96 to 22.5.96	30.09.1997	52	45	7	8	NTFP - 10.00 ha (97-98)	GG - 8 AO - 20	609.62	408.89	-	20 Km	3	10.00	Plantation raised in revenue lands. Mufath Sy no 73
	Malwe	11.01.1996	7/1995-96 07.01.1995	16.4.96 to 18.4.96	27.09.1997	157	144	13	14	NTFP - 10.00 ha (97-98) NTFP - 10.00ha (98-99) NTFP - 10.00 ha (99-00)	GG - 69	860.43	100.36	-	9 Km	3	30.00	Plantation raised in revenue lands. Sy no 1 & 9
	Malla	22.11.1996	9/1996-97 22.11.1996	21.2.1997	-	121	113	8	21	FW - 10.00 ha (98-99) FW - 5.00 ha (99-00) NTFP - 10.00 ha (99-00)	DST - 1	1659.02	937.30	-	15 Km	4	25.00	Plantation raised in revenue lands / Gomal lands/Jadi. Sy no 40 & 44
	Kangod Nadamanch ale	22.11.1996	12/1996-97 22.11.1996	28.04.1997	10.13.1998	57	53	4	12	FW-10.00 ha (98-99) FW-10.00 ha (99-00) NTFP - 10.00 ha (97-98) NTFP - 10.00 ha (99-00)	-	1359.20	326.13	-	10 Km	1	40.00	Plantation raised in Sy No 22 & 38 of Soppen Betta
	Kaspadi	05.08.1997	2/1997-98 05.08.1997	22.08.1997	-	45	43	2	8	NTFP - 10.00ha Teak - 5.00 ha	DST- 2	1042.19	561.32	-	14 Km	1	15.00	Plantation raised in Sy No 1&2 of Kaspadi Mufath land.
	Hirenelluru	20.11.1997	9/1997-98 20.11.1997	18.02.1998	-	400	324	76	39	Teak -10.00 ha (97-98) FW -10.00 ha (98-99) FW-50.00 ha (99-00)	-	4228.27	992.19	-	19 Km	25	70.00	Plantation raised in Sy no 282,244 & 284.
	HamSagarau	27.01.1999	3/1998-99 27.01.1999	-	-	158	150	8	46	FW - 10.00 ha (99-00) NTFP - 25.00ha (99-00)	-	-	-	-	14 Km	-	35.00	Plantation raised in Revenue lands.
	Maradavalli	24.03.1999	5/1998-99 24.03.1999	-	-	178	159	19	35	FW- 5.00 ha NTFP- 20.00 ha NTFP-20.00 ha (99-00)	-	-	-	-	14 Km	-	45.00	Plantation raised in Devas Syno - 19 & Baliga Sy no -

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Shikaripura	Tumrihosur	27.03.1996	10/1995-96 27.03.1996	27.06.1996	-	83	79	4	18	NTFP - 10 (97-98)	-	545.04	216.10	-	12 Km	3	10.00	Plantation raised in Chandrakala SF Comp 4
	Khavaspura	23.09.1996	4/1996-97 23.09.1999	17.11.1996	-	88	79	9	67	NTFP-20.00ha (98-99) NTFP-10.00ha (99-00)	AO - 10	273.52	-	-	11 Km	3	30.00	Plantation raised in revenue lands.
	Chikkajambur	17.01.1997	20/1996-97 17.01.1997	01.10.1997	-	263	239	24	72	FW- 10.00ha (98-99)	-	758.80	RF - 875.09 MF - 208.02	-	20 Km	10	20	Plantation raised in Chandrakala SF Comp 1
										NTFP-20.00ha (98-99)		84.17						
	Madagaharn alli	27.02.1997	23/1996-97 27.02.1997	14.01.1998	14.03.1998	139	128	11	10	FW 10.00ha (98-99) NTFP-20.00 ha (99-00)	AO - 10 DST - 1	538.38	-	-	20 Km	1	30.00	Plantation raised in Harnalli SR
	Attibyle	12.05.1997	1/1997-98 12.05.1997	09.02.1998	-	122	87	35	117	FW -10.00ha (99-00)	-	350.70	44.50	-	14 Km	81	10.00	Plantation raised in Gangavanasara SF Comp-18
	Dindidahalli	27.03.1999	6/1998-99 27.03.1999	-	-	203	196	7	39	NTFP 10.00ha (99-00)	-	648.52	-	-	12 Km	4	10.00	Plantatin raised in revenue land Sy No-53
Shiralkoppa	Gerukoppa	30.10.1995	2/1995-96 30.10.1995	31.05.1996	30.01.1998	34	29	5	4	NTFP - 17.00ha (97-98)	AO - 10 DST - 1	155.42	-	-	8 Km	-	17.00	Plantation raised in Gomal lands SY No 49
	Kanasogi	22.11.1996	8/1996-97 22.11.1996	-	-	140	135	5	54	-	-	-	-	-	-	-	-	Not Working
	Yalavalli	22.11.1996	14/1996-97 22.11.1996	14.01.1997	30.01.1998	100	95	5	19	NTFP - 17.00ha (97-98)	GG -18	904.19	-	-	15 Km	-	17.00	Plantation raised in Gomal lands SY No 113
	Bidirekoppa	15.11.1997	4/1997-98 15.11.1997	06.12.1997	-	93	74	19	91	FW -10.00 (97-98)	GG - 8 DST-1	656.14	335.15	-	17 Km	-	40.00	Plantation raised in Bidarekoppa MF Comp-12
										FW -10.00 NTFP-20.00 (98-99)								
	Sadapura	20.03.1999	4/1998-99 20.03.1999	-	-	30	16	14	21	-	-	-	-	-	-	-	-	Not Working

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Soraba	Tyavarehalli	18.10.1995	1/1995-96 18.10.1995	7.11.95 to 10.11.1995	11.12.1995	73	68	5	-	NTFP -10.00ha (96-97) NTFP-6.00ha (97-98) NTFP 6.50ha (97-98)	GG - 10	205.00	49.00	357.46	5 Km	-	22.50	Plantation raised in revenue lands. Sy no 31
	Hosabale	22.11.1996	11/1996-97 22.11.1996	23.01.1997	07.11.1997	118	114	4	30	Teak -13.00ha (98-99) NTFP 20.00 (99-00)	AO - 40	669.27	110.30	33.33	12 Km	8	33.00	Plantation raised in Soppinabetta Sy no 50
	Kanalli	22.11.1996	15/1996-97 22.11.1996	30.12.1996	06.02.1998	87	84	3	7	Teak - 10.00ha NTFP - 10.00ha (97-98) NTFP - 5.00ha (98-99)	-	1615.20	2369.00	3184.27	15 Km	-	25.00	Plantation raisied in revenue lands Sy no 34 of Kanalli
	Hechi	20.03.1997	24/1996-97 20.03.1997	10.05.1999	10.05.1999	300	276	24	25	Teak - 7.00ha NTFP - 15.00ha (98-99) NTFP-20.00ha (99-00)	AO - 40 DST - 1	3881.24	232.10	530.12	10 Km	32	42.00	Plantations raised in Hechi Sy no 100 Mufath and Gunjanur SF
	Kasaraguppe	27.11.1997	11/1997-98 27.11.1997	21.03.1998	28.10.1998	77	76	1	21	Teak 10.00 ha (97-98) NTFP 10.00 ha (98-99)	DST-1	1370.30	109.73	85.10	10 Km	6	20.00	Plantations raised in Kasaraguppe Sy no 133
	Malalagadde	27.01.1999	2/1998-99 27.01.1999	-	-	87	78	9	8	NTFP 10.00ha (99-00) FW 20.00 ha (99-00)	-	1241.20	1281.10	1944.06	10 Km	1	30.00	Plantations raised in revenue land sy no 51&52 of Malalagaded
					TOTAL	**5865**	**5370**	**495**	**1387**	**1221**		**59803**	**23116**	**13002**	**659**	**257**	**1221**	

Annexure – 19

Social Forestry Plantations Raised from 1987-88 to 1999-2000 in Sagar forest.

Sagar taluk

Sl. No.	Plantation name	Sy.No.	Area in Ha.	Plan	Plantation Year
1	Nadamanchale	45	10.00	S.Fry.	1987.88
2	Nadamanchale	45	10.00	"	1988.89
3	Ulluru	98	5.00	"	"
4	Malali	40	5.00	"	"
5	Heggodu	51/A	3.00	"	"
6	Tenkodu	124	5.00	"	"
7	Lingadahalli	64-68	5.00	"	"
8	Sunkadavara koppa	29	5.00	"	"
9	Tyavarehalli	44	5.00	"	"
10	Yedehalli	159	5.00	"	"
11	Gowthamapura Dananduru	6	5.00	"	"
12	Hosalli	31	5.00	"	"
13	Ulluru Shiruguppe	52	5.00	J.R.Y	"
14	Malavalli	98	2.00	"	"
15	Gowthamapura Dananduru	6	5.00	"	"
16	Hosuru	2	75.00	"	"
17	Talaguppa Choorikatte	160	6.00	"	"
18	Talaguppa Hiremane	132	5.00	"	1988.89
19	Brahmana manchale	72	5.00	S.Fry.	1989.90
20	Brahmana manchale	38	10.00	"	1990.91
21	Brahmana manchale	38	15.00	"	1990.91
22	Seethuru avinahalli	142	10.00	D.W.G	1990.91
23	Banadakoppa	1	10.00	"	1991.92
24	Shiduguppa	33	10.00	S.Fry.	1991.92
25	Hebbodi	159/12	26.00	D.W.G	1991.92
26	Shiruguppa	33	10.00	"	1992.93
27	Aralikoppa	49	15.00	S.C.P	1992.93
28	Kalasi	134	10.00	S.Fry.	1993.94
29	Kanle	441	10.00	J.R.Y	1993.94
30	Kanle	433	10.00	"	1993.94
31	Kanle	462	5.00	D.W.G	1993.94
32	Kanle	60	10.00	S.C.P	1993.94
33	Hakrikoppa	3	10.00	S.Fry.	1994.95
34	Jagalamane	58	10.00	J.R.Y	1994.95
35	Ulluru	32	8.00	D.W.G	1994.95
36	Malavarige		52.00	"	1995.96
37	Iruvakka		32.00	"	1995.96
38	Hebbodi		20.00	"	"
39	Mandagalale		10.00	"	1995.96

40	K.Hunasavalli	10.00	"	1996.97
41	Keladi rajaguru	8.00	"	"
42	Hanigere	10.00	"	1996.97
43	Alalli	14.5	"	1996.97
44	Hebbodi	17.00	"	"
45	K.Golugoopu	15.00	"	1997.98
46	Kagodu	10.00	"	"
47	Karkikoppa	14.00	E.A.S	1997.98
48	Syduru nallugudde	16.00	"	1998.99
49	Kenchagudde	14.00	"	"
50	Mankalale hostel	2.00	"	1998.99
51	Mankalale soppinbetta	8.00	"	"
52	Helipad	6.00	"	1998.99
53	Khandika road side	1.00	"	"
54	Shidvala	6.00	"	1988.99
55	Mankalale	8.00	D.W.G	"
56	Odugodu	4.00	D.W.G	1998.99
		627.5		

Hosanagar taluk

Sl. No.	Plantation name	Sy.No.	Area in ha	Plan	Plantation Year
1	Sonle road side	-	5 .00	S.Fry.	1987.88
2	Yadachitte	-	5 .00	"	1987.88
3	Sampekatte	-	5.50	"	1987.88
4	Sutha	49	5 .00	"	1988.89
5	Baniga	25	5 .00	"	1988.89
6	Sonale	136	5.00	"	1988.89
7	Koduru	77	5.00	"	1988.89
8	Nitturu	3.5	5 .00	"	1988.89
9	Harathalu	27	5	"	1988.89
10	Gowturu	427	5	"	1988.89
11	Kenchanala	60	5	"	1988.89
12	Honnebyle	99	5	"	1988.89
13	Arasalu	28	5	"	1988.89
14	Kenchanala	60	1.5	J.R.Y	1988.89
15	Baniga	25	3	"	1988.89
16	Manjagalale	194	5	"	1988.89
17	Karanagiri pavithra vana	-	2	"	1988.89
18	K.Hunasvalli	11	5	S.Fry.	1989.90
19	K.Hunasvalli	11	5	J.R.Y	1989.90
20	Koduru	-	5	"	1992.93
21	Gowturu	-	7	D.W.G	1992.93
22	Masaruru	-	10	J.R.Y	1993.94
23	Masaruru	-	8	D.W.G	1993.94

24	Masaruru	-	10	S.Fry.	1993.94
25	Koduru	-	5	S.Fry.	1993.94
26	K.Hunasvalli	-	10	S.Fry.	1993.94
27	Halugudde	-	2.5	S.C.P.	1993.94
28	Madapura	-	20	D.W.G	1995.96
29	Neralamane	-	16	D.W.G	1995.96
30	Jeni	-	10	D.W.G	1995.96
31	Kodur	-	13	D.W.G	1996.97
32	Rippanpete school	-	3	D.W.G	1996.97
33	Malali I Block	-	6	E.A.S	1997.98
34	Malali II Block	-	6	E.A.S	1997.98
35	S.College compound	-	2	E.A.S	1997.98
36	Kargadi I & II Block	-	7	E.A.S	1997.98
37	Kargadi III & IV Block	-	7	E.A.S	1997.98
38	Kargadi V Block	-	0.5	E.A.S	1997.98
39	Mudubagilu I Block	-	5	E.A.S	1998.99
40	Mudubagilu II Block	-	5	E.A.S	1998.99
41	Sampemane I Block	-	5	E.A.S	1998.99
42	Sampemane II Block	-	5	E.A.S	1998.99
43	Brahmana taruve I Block	-	5	E.A.S	1998.99
44	Brahmana taruve II Block	-	5	E.A.S	1998.99
45	Kargadi	-	8	D.W.G	1998.99
46	Kalanchi	-	5	D.W.G	1998.99
	Total		**242.50**		

Shikaripura Taluk

Sl No	Range	Plan		Plantation name	Sy. No.	Plantation Year	Area in ha	Species
1	2	3	4	5	6	7	8	9
1	Social forestry Shikaripura	N.R.E.P	Maravalli	Maravalli Pln.	-	1988.89	5 .00	Acacia, Casurina equisetifolia, Cassia siamea, Dalbergia sisso
2	"	"	Biliki	Biliki Pln.	229	1988.89	5 .00	Acacia, Cassia siamea ,Dalbergia sisso,Albizzia lebbek
3	"	"	Sunnadakoppa	Kadenadihalli Pln.	235	1988.89	5 .00	Acacia, Cassia siamea ,Dalbergia sisso, Albizzia oddoratissima, Subabul
4	"	"	Udugani	Kakkuru road side	-	1988.89	5 .00	Acacia, Cassia siamea , Acacia nilotica, Rain tree, Azadirachta indica
5	"	"	Harogoppa	Nandihalli Pln.	57	1988.89	5 .00	Acacia, Cassia siamea , Albizzia lebbek, Albizzia

								Oddoratissima
6	"	"	Togarsi	Kolagi	75	1988.89	5 .00	Acacia, Cassia siamea , Hoorige, Dalbergia sisso
7	"	"	Talagunda	Mulluru	-	1988.89	5 .00	Acacia, Cassia siamea , Subabul
8	"	"	Ambarkoppa	Jakkanahalli	-	1988.89	5 .00	Acacia, Tamarindus indica, Subabul, Hoorige
9	"	"	Koratkere	Koratkere	-	1988.89	5 .00	Acacia, Cassia siamea , Dalbergia sisso
10	"	"	Hosur	Beguru	1069	1988.89	5 .00	Acacia, Cassia siamea
11	"	"	Hittali	Kalmane kereangala	-	1988.89	5 .00	Acacia nilotica
12	"	R.L.E.G.P	Balaki	Biliki	-	1988.89	10 .00	Acacia, Cassia siamea , Dalbergia sisso
13	"	"	Hosuru	Baguru	-	1988.89	9.5 .00	Acacia, Cassia siamea
14	"	"	Koratkere	Koratkere	-	1988.89	10 .00	Acacia, Cassia siamea , Dalbergia sisso
15	"	"	Esuru	Esuru road	-	1988.89	4 .00	Acacia, Rain tree
16	"	"	Harogoppa	Yerekatte	47	1988.89	5 .00	Bamboo
17	"	"	Udugani	Udugani temple compound	-	1988.89	2 .00	Acacia
18	"	"	Sunnadakoppa	Sadapura B - I	198	1988.89	7.5 .00	Acacia, Cassia siamea ,Subabul
19	"	"	Sunnadakoppa	Sadapura B - II	198	1988.89	3.5 .00	Acacia, Cassia siamea ,Subabul
20	"	S.C.P	Hosuru	Hosuru	-	1988.89	11 .00	Acacia, Cassia siamea ,Subabul,Tamarind us indica
21	"	"	Koratkere	Koratkere	-	1988.89	5 .00	Acacia, Cassia siamea ,Albizzia lebbek,Casurina equisetifolia
22	"	"	Sunnadakoppa	Sadapura	198	1988.89	5 .00	Acacia, Cassia siamea ,Subabul
23	"	"	Togarsi	Tadagunda	-	1988.89	5 .00	Acacia, Cassia siamea ,Subabul,Casurina equisetifolia
24	"	"	Sunnadakoppa	Sadapura	198	1988.89	6.5 .00	Acacia, Cassia siamea ,Subabul,Tamarind us indica
25	"	"	Sunnadakoppa	Kade nandihalli	235	1988.89	5 .00	Acacia, Bangalijali,Albizzi a lebbek,Casurina equisetifolia

26	"	"	Talagunda	Javagatti	253	1988.89	10 .00	Acacia, Acacia nilotica,Pongamia pinnata
27	"	S.Fry.	KagiEmblica officinalis	Bekkinkoppa balluru road	-	1988.89	5 .00	Acacia, Cassia siamea ,Casurina equisetifolia,Nerale
28	"	"	Togarsi	Kolagi	75.76	1988.89	5 .00	Acacia, Cassia siamea ,Casurina equisetifolia
29	"	"	Sunnadakoppa	Kadenandihalli	235	1988.89	5 .00	Acacia, Dalbergia sisso,Azadirachta indica,Pongamia pinnata,Cassia siamea
30	"	"	Biliki	Biliki	229	1988.89	5 .00	Acacia, Cassia siamea ,Dalbergia Sisso,Casurina equisetifolia
31	"	"	Udugani	Udugani	-	1988.89	5 .00	Acacia nilotica
32	"	"	Harogoppa	Nandihalli	57	1988.89	5 .00	Acacia, Cassia siamea ,Dalbergia Sisso,Casurina equisetifolia
33	"	"	Talagunda	Malluru Pln.	75	1988.89	5 .00	Acacia, Subabul,Cassia siamea
34	"	"	Manchikoppa	Hakkala	-	1988.89	5 .00	Acacia, Cassia siamea ,Subabul
35	"	"	Esuru	Churchgundi	-	1988.89	5 .00	Bamboo,Mathi,Honne
36	"	"	Ambarkoppa	Madage harnahalli	136	1988.89	5 .00	Acacia, Cassia siamea ,Casurina equisetifolia
37	"	"	Hunuru	Beguru	1069	1988.89	5 .00	Acacia, Cassia siamea ,Dalbergia sisso
38	"	"	Esuru	Churchgundi panel road	-	1988.89	3 .00	Acacia, Peltiform,Rain tree
39	"	"	Hosuru	Hosur	-	1988.89	2.5 .00	Cassia siamea
40	"	"	Talagunda	Javagatii	-	1989.9	10 .00	Bamboo,Mathi
41	"	"	Talagunda	Javagatii	-	1989.9	3 .00	Acacia nilotica, Mathi
42	"	"	Talagunda	Malluru	-	1989.9	1 .00	Acacia nilotica, Mathi
43	"	"	Sunnadakoppa	Kadenandihalli B -I	235	1990.91	10 .00	Acacia, Cassia siamea ,Dalbergia sisso,Albizzia lebbek
44	"	"	Sunnadakoppa	Kadenandihalli B -II	235	1990.91	10 .00	Acacia, Cassia siamea ,Dalbergia sisso,Albizzia lebbek
45	"	"	Maravalli	Maravalli	55,56	1991.92	8 .00	Acacia, Dalbergia sisso,Albizzia lebbek

46	"	"	Hosuru	Kenchigondankoppa	19	1992.93	10 .00	Acacia, Dalbergia sisso, Emblica officinalis ,Tectona grandis
47	"	"	Talagunda	Javagatti	-	1992.93	5 .00	Acacia, Bamboo,Honne,Mathi
48	"	"	Harogoppa	Doddajogihalli	3	1993.94	8 .00	Acacia, Casurina equisetifolia, Cassia siamea ,Emblica officinalis
49	"	"	Talagunda	Shivalli	117	1993.94	8 .00	Acacia, Casurina equisetifolia, Emblica officinalis
50	"	"	Koratige	Shirihalli	30	1993.94	5 .00	Acacia, Casurina equisetifolia, Emblica officinalis,Albizzia lebbek,Pongamia pinnata
51	"	"	Talagunda	Malluru	248	1993.94	12 .00	Acacia, Casurina equisetifolia, Pongamia pinnata,Emblica officinalis, Nerale
52	"	"	Chikkamagadi	Chikkamagadi	59	1995.95	10 .00	Acacia, Casurina equisetifolia, Tectona grandis, Albizzia lebbek, Azadirachta indica
53	"	"	Chikkamagadi	Chikkamagadi	59	1995.95	6 .00	Acacia, Tectona grandis, Pongamia pinnata,Tamarindus indica
54	"	"	Chikkamagadi	Chikkamagadi	59	1995.95	10 .00	Acacia, Tectona grandis, Pongamia pinnata,Tamarindus indica
55	"	"	Narasipura	Bandalike	1,74	1995.95	10 .00	Acacia, Tectona grandis, Pongamia pinnata,Tamarindus indica
56	"	"	Narasipura	Bandalike Shankraruva	1,74	1995.95	10 .00	Acacia, Tectona grandis, Pongamia pinnata,Tamarindus indica
57	"	"	Ambarakoppa	Ambarkoppa road side	-	1995.95	3 .00	Rain tree, Cassia siamea
58	"	"	Shikaripura	Shikaripura-Shimoga road side	-	1996.97	5 .00	Rain tree, Cassia siamea
59	"	J.R.Y	Sluru	Hothanakatte	-	1993.94	8 .00	Acacia, Casurina equisetifolia, Silver oak, Albizzia lebbek,
60	"	J.R.Y	Koratkere	Shirihalli	-	1993.94	5 .00	Acacia, Casurina equisetifolia, Emblica

								officinalis,Pongamia pinnata
61	"	J.R.Y	Churchugundi	Sanyasikoppa	3	1994.95	10 .00	Acacia, Casurina equisetifolia, Pongamia pinnata,Albizzia lebbek, Tectona grandis
62	"	S.E.P	Sadapura	Sadapura	1	1988.89	4 .00	Acacia, Sububal,Seethapha la
63	"	S.E.P	Tadasanahalli	Tadasanahalli	-	1990.91	3 .00	Sububal,Seethapha la
64	"	S.E.P	Maravalli	Sanklapura	-	1991.92	2 .00	Acacia
65	"	"	Talagunda	Javaghatti	63	1992.93	1 .00	Eucalyptus grandis , Tectona grandis
66	"	"	Talagunda	Javaghatti	-	1993.94	1.5 .00	Eucalyptus grandis , Tectona grandis
67	"	"	Agraharamuch adi	Shirihalli	-	1993.94	2 .00	Acacia , Tectona grandis
68	"	"	Talagunda	Javaghatti	-	1994.95	0.5 .00	Eucalyptus grandis , Tectona grandis
69	"	"	Talagunda	Shivapura	-	1994.95	0.5 .00	Eucalyptus grandis , Tectona grandis
70	"	"	Sunnandakopp a	Kadenandihalli	-	1995.96	2 .00	Eucalyptus grandis , Tectona grandis
71	"	"	Sunnandakopp a	Shirihalli thanda	-	1995.96	0.5 .00	Eucalyptus grandis , Tectona grandis
72	"	"	Harogoppa	Atti bayali	-	1997.98	4 .00	Acacia , Bamboo
73	"	"	Agraharamuch adi	Muthalli, Mulakoppathan da	-	1998.99	13 .00	Eucalyptus grandis
74	"	"	Sunnadakoppa	Kadenandihalli	-	1998.99	4 .00	Eucalyptus grandis
75	"	"	Hosuru	Kenchagondank oppa	-	1998.99	2.5 .00	Eucalyptus grandis
76	"	W.G.F.P	Harogoppa	Keregatti	10	1990.91	10 .00	Acacia
77	"	"	Maravalli	Maravalli	65,55	1991.92	14 .00	Acacia, Dalbergia sisso,Albizzia lebbek, Beedi
78	"	"	Agraharamuch adi	Agraharamucha di	-	1996.97	10 .00	Acacia, Pongamia pinnata, Saguvani
79	"	"	Kappanahalli	Kalen halli	34	1996.97	1.96 .00	Tectona grandis
80	"	"	Taranghatta	Nandihalli	-	1996.97	5.2 .00	Acacia , Tectona grandis,Tamarindus indica
81	"	"	Taranghatta	Taranghatta	-	1996.97	10 .00	Acacia
82	"	"	Mudabasiddap ura	Mallapura	13	1998.99	21.7 .00	Acacia
83	"	"	Taranghatta	Taranghatta	-	1998.99	6 .00	Acacia
84	"	"	Varasapura	Narasapura	-	1998.99	7 .00	Acacia

85	"	E.A.S	Mallapura	Mallapura	13	1997.98	13 .00	Acacia
86	"	"	Agraharamuchadi	Agraharamuchadi	-	1997.98	16.5 .00	Acacia
87	"	"	Taranghatta	Taranghatta	-	1997.98	10 .00	Acacia
88	"	"	Togarsi	Kolagi	-	1997.98	7 .00	Acacia
89	"	"	Shikaripura	Shikaripura	-	1997.98	3 .00	Acacia
90	"	"	Shikaripura	Shikaripura School compound	-	1998.99	2 .00	Acacia, Silver oak,Pongamia pinnata,rain tree
91	"	"	Shikaripura	Gabburu Pln.	-	1998.99	3 .00	Acacia, Eucalyptus grandis
						Total	**527.36**	

Sagar Taluk: 627.50 Ha
Hosanagara Tq: 242.50 Ha
Shikaripura TQ: 550.36 Ha

Total 1397.36 Ha

Annexure - 20

Statement showing the details of the area proposed for section 4 (1)

Taluk	Hobli	Village	Sy. No.	Extract in		Ha.	Name of the block	Letter No & Date of the CCF WP B'lore addresed to the Chief Sec. to Govt.
				Ac.	Gu.			
1	2	3	4	5		6	7	8
Hosanagar	Kerehalli	Kerehalli	9	365	26	147.98	Kerehalli RF	B6.WP.CR.28.96.97 Dt. 29.7.1997
		Gowtur	283	17	5	6.93		
				382	**31**	**154.91**		
"	"	Kakkalale	13	420	0	169.97	Kakkalale RF	B6.WP.CR.28.96.97 Dt. 29.7.1997
Hosanagar	Nagara	Sulagodu	73	25	0	10.12	Sulagodu RF	B6.WP.GL. 34/95.96- Dt. 25.3.1996
"	Kerehalli	Benavalli	53	20	0	8.09	Kerehalli Benavalli C.P	B6.WP.GL. 41/95.96- Dt. 25.3.1996
			54	45	0	18.21		
		Kerehalli	91	97	13	39.39		
		Kenchanala	45	2	0	0.81		
				164	**13**	**66.50**		
"	Nagara	Malali	83	24	0	9.71	Malali C.P	B6.WP.GL. 39/95.96- Dt. 25.3.1996
			90	18	21	7.50		
				42	**21**	**17.21**		
Soraba	Ulavi	Nadavalaholekatte	27	1	0	0.40	Nadavalaholekatte C.P	B6.WP.GL.40/95.96- Dt. 25.3.1996
			28	18	10	7.39		
			29	2	28	1.09		
				21	**38**	**8.88**		
Soraba	Anavatti	Hireyedagodu	67	80	0	32.38	Hireyedagodu RF C.P	A6 (B6) WP.CR.30/96-97 Dt. 7.1.1999
"	Soraba	Gunjanur	55	72	21	29.35	Gunjanur C.P	B6.WP.GL.37 / 95.96- Dt. 8.3.1996
"	Kuppagadde	Bilagi	1	32	20	13.15	Bilagi C.P	B6.WP.GL.36 / 95.96- Dt. 25.3.1996
Shikaripura	Anjanapura	Yerekatte	14	0	24	0.24	Gangavanasara RF	B6.WP.CR.30/96.97- Dt. 19.1.1998
			15	30	28	12.42		
			17	61	29	24.98		
				93	**1**	**37.65**		
"	"	"	17	55	0	22.26	Yerekatte RF	B6.WP.CR.29/96.97- Dt. 29.7.1997

1	2	3	4	5		6	7	8
Shikaripura	Hosur	Maravalli	92	147	34	59.83	Maravalli RF	B6.WP.CR. 31/96.97- Dt. 31.7.1997
			93	14	2	5.69		
			166	198	8	80.21		
				360	**4**	**145.73**		
Sagar	Sagar	Padavagodu	15	27	20	11.13	Padavagodu C.P	B6.WP.GL.33 / 95.96- Dt. 6.3.1996
"	"	Guttahalli	1	16	0	6.48	Guttahalli C.P	B6.WP.GL.31 / 95.96- Dt. 12.3.1996
			2	3	16	1.38		
			3	8	21	3.45		
				27	**37**	**11.30**		
"	Anandapuram	Sampolli	22	97	12	39.38	Gowtampura RF	B6.WP.GL.14 / 96-97 Dt. 18.1.1997
		Gowtampura	342	1047	20	423.92		
		Sarakarigowja	15	7	4	2.87		
			16	8	20	3.44		
			19	2	28	1.09		
			20	8	12	3.36		
			21	0	20	0.20		
			22	0	36	0.36		
			23	6	32	2.75		
			24	8	4	3.28		
			25	4	4	1.66		
		Channashettykoppa	18	176	32	71.55		
		Kotikoppa	23	15	16	6.23		
				1384	**0**	**560.10**		

ABSTRACT

Hosanagar	**418.71**
Soraba	**83.76**
Shikaripura	**205.64**
Sagar	**582.53**
	1290.63

Annexure 21

Areas Notified under Sec 4(1), to be Notified under Sec 17

Taluk	Village	Notification no.	Area in Ha.
1	2	3	5
Hosanagar	Hilagodu	FFD. 37 FAF. 71 / 16.7.80.	25.50
	Jehalli	FFD. 164 FAF. 79 / 10.8.81.	308.91
	Aragodagi	FFD. 33 FAF. 80 / 15.7.80.	115.34
	Bilagodu	FFD. 111 FAF. 80 / 15.7.80.	89.03
	Kattegeddalu	FFD. 181 FAF. 79 / 30.7.81.	334.68
	Kavari	FFD. 193 FAF. 79 / 10.8.81.	904.90
	Nandri	FFD. 192 FAF. 79 / 10.8.81.	182.11
	Byse	FFD. 184 FAF. 80 / 2.4.82.	413.19
	Aramanekoppa	FFD. 176 FAF. 80 / 2.4.82.	663.21
	Brahmanataruve	FFD. 180 FAF. 80 / 2.4.82.	209.56
	Hulusalumalavalli	FFD. 199 FAF. 80 / 23.4.82.	464.99
	Brahmanavada	FFD. 189 FAF. 80 / 16.12.81.	441.12
	Alagerimandri	FFD. 121 FAF. 80 / 30.7.80.	174.65
	Kattinahole	FFD. 35 FAF. 80 / 16.7.80.	371.51
	Taariga	FFD. 80 FAF. 80 / 11.7.80.	385.27
	Hosanadu	FFD. 179 FAF. 79 / 10.9.81.	368.68
	Haridravathi	FFD. 69 FAF. 80 / 15.7.80.	452.85
	Karigerasu	FFD. 172 FAF. 79 / 12.8.81.	328.21
	Trinave	FFD. 264 FAF. 80 / 30.12.81.	335.90
	Kaluru katte	FFD. 92 FAF. 80 / 16.7.80.	196.28
	Sutta	FFD. 180 FAF. 79 / 31.7.81.	147.71
	Beluru	FFD. 117 FAF. 80 / 30.12.81.	804.13
	Varamballi	FFD. 197 FAF. 80 / 2.7.82.	144.07
	Hosuru	FFD. 120 FAF. 80 / 11.7.80.	293.81
	Hilakanji	FFD. 260 FAF. 80 / 2.1.82.	614.73
	Nanjavalli	FFD. 265 FAF. 80 / 17.12.87.	328.43
	Kolagi	FFD. 194 FAF. 80 / 5.1.82.	233.10
	Malali	FFD. 182 FAF. 80 / 30.12.81.	600.97
	Gawturu	FFD. 189 FAF. 79 / 10.8.81.	300.58
	Ramachandrapura	FFD. 187 FAF. 80 / 31.12.81.	89.03
	Nivani	FFD. 166 FAF. 79 / 10.8.81.	214.49
	Huligadde	FFD. 195 FAF. 80 / 2.1.82.	144.48
	Yeechalakoppa	FFD. 191 FAF. 80 / 30.12.81.	44.52
	Hebburuli B-I	FFD.129 FAF .80 / 28.7.80	505.06
	Melina sampalli	FFD. 2567 FAF. 80 / 21.11.81.	341.97
	Gubbiga	FFD. 178 FAF. 79 / 10.8.81.	459.33

1	2	3	5
	Jamballi	FFD. 128 FAF. 80 / 17.12.81.	148.93
	Karagodu	FFD. 188 FAF. 80 / 2.4.82.	183.33
	Manjagalale B-I	FFD. 198 FAF. 80 / 2.4.82.	753.14
	Adugodi	FFD. 83 FAF. 80 / 30.7.80.	479.56
	Savanthuru	FFD. 186 FAF. 80 / 28.5.82.	409.55
	Ulthiga	FFD. 186 FAF. 80 / 31.12.81.	398.62
	Kattekoppa	FFD. 77 FAF. 80 / 15.7.80.	345.61
	Yadooru	AHFF. 16 FAF. 92 / 2.11.93.	31.97
	Ammadagalallu	AHFF. 45 FAF. 80 / 16.7.80.	36.42
	C.Kannuru	FFD. 89 FAF. 80 / 28.7.80.	14.97
	Mattikai	FFD. 261 FAF. 90 / 31.12.1981.	412.79
	Basasvapura	FFD. 63 FAF. 84.111 /29.11.85.	151.36
	Mathura Sy No 28 (C&D)	FFD. 63 FAF. 84.11 /29.11.85.	29.68
	Basavapura Sy No 50 (C&D)	FAF. 63 FAF. 84.111 /29.11.85.	82.00
	Thotada koppa Sy No 50 (C&D)	FAF. 63 FAF. 84.111 /29.11.85.	89.00
	Humcha Sy No 16/1 (C&D)	FAF. 117 FAF. 87. /10.5.88.	28.82
	Kalashetty koppa Sy No 13 (C&D)	FAF. 87 FAF. 87. /10.5.88.	24.00
	Karehalli Sy No 90, 94 (C&D	FAF. 119 FAF. 87. /10.5.88.	78.52
	Kalevadi Sy No 24, 25, 42 (C&D)	FAF. 122 FAF. 80. /10.5.88.	216.00
	Hebbagilu SY No 36, 47, 43 (C&D)	FAF. 122 FAF. 80. /10.5.88.	
	Malavalli Sy No 19 (C&D)	FAF. 100 FAF. 87. /3.5.88.	27.28
	Gubbiga Sy No 32/2, 31/3 (C&D)	FAF. 88 FAF. 87. /27.9.88.	317.00
	Neeru thootilu Sy No 54, 55, 49	FAF. 88 FAF. 87. /27.9.88.	
	Sunthi koppa Sy No 33, 34, 28, 43, 7, 9, 25, 22 (C&D)	FAF. 12 FAF. 88. /10.5.88.	158.80
			16449.63
Sagar	Mandavalli	FFD. 198 FAF 78 / 10.8.81.	216.92
	Maluru	FFD. 24 FAF 80 / 30.12.81.	43.71
	Valagere	FFD. 240 FAF 80 / 3.2.81.	174.02
	Chadaravalli	FFD. 133 FAF 80 / 11.7.80.	42.49
	Chikkanalluru	FFD. 141 FAF 80 / 4.2.82.	97.63
	Besuru	FFD. 140 FAF 80 / 7.7.80.	488.26
	Baruru	FFD. 140 FAF 80 / 7.7.80.	205.18
	Yarehalli	FFD. 185 FAF 91 / 23.6.91.	113.31
	Brahmanailekale	FFD. 143 FAF 80 / 31.12.81.	105.22
	Marathuru	FFD. 144 FAF 91 / 3.6.91.	31.36
	Marathuru	FFD. 64 FAF 87 / 21.11.87.	27.61
	Marathuru	FFD. 222 FAF 91 / 6.8.91.	19.43
	Nadavada talakalale	FFD. 232 FAF 80 / 30.12.81.	183.33
	Khanle	AHFF. 34 FAF 87 / 21.11.87.	27.11
	Lavigere	AHFF. 221 FAF 91 / 17.6.91.	129.50

1	2	3	5
	Chikkamatturu	AHFF. 138 FAF 80 / 16.12.81.	305.54
	Hosahalli	AHFF. 22 FAF 87 / 8.9.87.	44.74
	Bhahmanavada shiravanthe	AHFF. 23 FAF 91 / 4.6.91.	86.30
	Chikkanalluru	AHFF. 58 FAF 91 / 25.6.91.	134.18
	Chikkanalluru	AHFF. 212 FAF / 4.7.91.	79.72
	Chikkanalluru	AHFF. 183 FAF 91 / 22:29.6.91.	143.87
	Talaguppa	AHFF. 190 FAF 91 / 17.7.91.	99.15
	Malavi	AHFF. 128 FAF 80 / 15.7.80.	209.23
	Kagarsi	AHFF. 127 FAF 81 / 22.7.80.	49.88
	Yadeehali	AHFF. 154 FAF 88 / 11.6.94.	169.97
	Donde	AHFF. 126 FAF 93 / 25.6.94.	7.10
	Hirenalluru	AHFF. 120 FAF 93 / 9.2.94.	27.79
	Marava	AHFF. 123 FAF 93 / 8.2.94.	16.22
	Shiruru	AHFF. 669 FAF 91 / 9.9.94.	146.09
	Chikkanalluru	AHFF. 237 FAF 91 / 19.9.94.	197.49
	Syduru	AHFF. 257 FAF 91 / 17.9.94.	92.68
	Horabylu	FFD . 110 FAF 80 / 9.10.80.	161.88
	Mattikoppa	AHFF. 42 FAF 88 / 30.8.88.	93.69
	Kerekoppa	AHFF. 23 FAF 87 / 8.9.87.	39.42
	Mattikoppa	AHFF. 55 FAF 88 / 27.9.88.	62.73
	Tadagalale	AHFF.157 FAF 91 / 20.12.94.	52.61
	Tuppuru	FFD . 478 FAF 91 / 3.6.94.	117.95
	Chennagonda	AHFF.129 FAF 93 / 9.2.94.	144.52
	Keladi	AHFF.130 FAF 93 / 9.2.94.	309.44
	Sunkadevarakoppa	AHFF.675 FAF 91 / 19.9.94.	21.04
	Hosahalli Sy No 3 (C&D)	FFD. 22 FAF 87 / 8.9.87	44.08
	Masura Sy No 40 (C&D)	FFD. 118 FAF 87 / 16.5.88	122.07
	Nadamanchale Sy No 45 (C&D)	FFD. 113 FAF 87 / 10.5.88	108.40
	Nadamanchale Sy No 3 (C&D)	FFD. 86 FAF 87 / 26.3.88	47.24
	Kannale Sy No 94 (C&D)	FAF. 34 FAF 87 / 21.11.87	26.80
	Anandapura Sy No 7, 22, 23, 25 (C&D)	FAF. 42 FAF 88 / 30.8.88	92.60
	Anandapura Sy No 35, 67, 68, 69, 70 (C&D)	FAF. 55 FAF 82 / 27.9.88	61.08
	Karekoppa Sy No 17, 18, 72, 74, 119, 120 (C&D)	FAF. 23 FAF 87 / 8.9.87	38.62
	Chicknallur Sy No 208, 209 211-214, 216, 202, 178-180, 11-14 (C&D)	AHFF 346 FAF 91 / 6.8.91	132.60
	Marathur Sy No 123 (C&D)	AHFF 222 FAF 91 / 6.8.91	7.68
	Chicknallur Sy No 168, 172 (C&D)	AHFF 212 FAF 91 / 8.8.91	78.80
	Marur Sy No 125 (C&D)	AHFF 64 FAF 91 / 21.11.87	27.24

1	2	3	5
	Bramhanavada Shirevante Sy No 48, 49 50 (C&D)	AHFF 235 FAF 91 / 4.6.91	85.30
	Lavigere Sy No 90 (C&D)	AHFF 221 FAF 91 / 10.7.91	129.50
	Talaguppa Sy No 149, 151, 16 (C&D)	AHFF 190 FAF 91 / 17.7.91	98.90
	Yadihalli Sy No 58, 100 (C&D)	AHFF 181 FAF 91 / 29.6.91	112.00
	Chicknallur Sy No 28, 37 (C&D)	AHFF 181 FAF 91 / 29.6.91	142.20
	Marthur Sy No 119, 120 (C&D)	AHFF 144 FAF 91 / 3.6.91	31.00
	Benkikere Sy No 49, 50, 51, 54 (C&D)	AHFF 321 FAF 91 / 4.6.91	390.40
	Narashettihalli Sy No 19, 20 (C&D)	AHFF 321 FAF 91 / 4.6.91	
	Honnanaikanahalli Sy No 2, 3 (C&D)	AHFF 321 FAF 91 / 4.6.91	
			6494.82
Shikaripura	Kenchagondanakoppa	AHFF. 35 FAF. 87 / 21.11.87	41.38
	Hunasekoppa	AHFF. 72 FAF. 87 / 11.12.87	8.90
	Churchagungi	AHFF. 37 FAF. 87 / 21.12.87	12.02
	Hittala	AHFF. 67 FAF. 87 / 11.12.87	19.02
	Chikkajogihalli	AHFF. 24 FAF. 87 / 21.9.87	9.31
	Gogga	AHFF. 60 FAF. 87 / 11.12.87	68.80
	Agrahara muchadi	AHFF. 122 FAF. 93 / 8.2.94	20.03
	Talagunda	AHFF. 14 FAF. 93 / 8.9.93	16.53
	Chikkamagadi	AHFF. 12 FAF. 93 / 8.9.93	28.69
	Gogga	AHFF. 24 FAF. 88 / 12.6.84	16.89
	Tatturu	AHFF. 121 FAF. 93 / 8.2.94	26.85
	Chowdanayakanakoppa	AHFF. 881 FAF. 91 / 20.9.94	202.26
			470.68
Soraba	Banadakoppa	FFD. 153 FAF. 80. / 17.12.81.	14.16
	Tavanandi	FFD. 144 FAF. 80. / 2.1.82.	101.17
	Andavalli	FFD. 268 FAF. 80. / 14.12.81.	38.04
	Shyadalakoppa	FFD. 229 FAF. 80. / 1.1.82.	26.31
	Kannuru	FFD. 233 FAF. 80. / 17.12.81.	34.40
	Kuntagalale	FFD. 314 FAF. 80. / 15.12.81.	44.52
	Kerekoppa	FFD. 154 FAF. 80. / 24.3.82.	39.66
	Totlagondanakoppa	FFD. 161 FAF. 80. / 17.12.81.	44.52
	Bedavatti	FFD. 156 FAF. 80. / 5.7.80.	54.63
	Induvalli	FFD. 241 FAF. 80. / 2.1.82.	142.82
	Uppalli	FFD. 158 FAF. 80. / 15.3.82.	76.89
	Tandiga	FFD. 149 FAF. 80. / 7.7.80.	136.79
	Siddahalli	FFD. 169 FAF. 80. / 8.12.81.	84.99
	Kolgunisi	FFD. 136 FAF. 80. / 10.12.81.	54.63

1	2	3	5
	Talakalakoppa	FFD. 175 FAF. 80. / 28.5.82.	30.25
	Andige	FFD. 172 FAF. 80. / 8.12.81.	37.23
	Tudaneeru	FFD. 164 FAF. 80. / 14.12.81.	21.04
	Saarekoppa	FFD. 151 FAF. 80. / 14.12.81.	226.22
	Mannatti	FFD. 234 FAF. 80. / 5.8.82.	48.97
	Mangalore	FFD. 215 FAF. 80. / 1.12.93.	87.41
	Sooranagi	FFD. 162 FAF. 80. / 25.5.89.	176.04
	Kerehalli talaguppa	FFD. 146 FAF. 80. / 7.9.80.	129.50
	Dodderikoppa	FFD. 159 FAF. 80. / 14.4.83.	50.18
	Kodakani	FFD. 174 FAF. 80. / 15.3.82.	321.73
	Saalemaduru	FFD. 163 FAF. 80. / 7.2.91.	133.71
	Negavadi	FFD. 173 FAF. 80. / 10.6.82.	82.25
	Kuliga	FFD. 237 FAF. 80. / 10.6.82.	218.54
	Korakodu	FFD. 192 FAF. 80. / 31.12.81.	91.06
	Udri	FFD. 148 FAF. 80. / 7.7.80.	192.23
	Kakkarasi	FFD. 170 FAF. 80. / 2.4.82.	83.37
	Halugalale	FFD. 193 FAF. 80. / 10.11.80.	80.94
	Gudavi Kallambi	FFD. 262 FWL. 88. / 10.7.89.	75.33
	Talebylu	AHFF.11. FAF. 93. / 13.10.93.	8.10
	Haruru	FFD. 99 FAF. 90. / 16.7.80.	118.98
	Guddekoppa	FFD. 171 FAF. 80. / 30.12.81.	80.94
	Jamballi	FFD. 157 FAF. 80. / 4.1.82.	26.31
	Magadi Sy No 31 (C&D)	FAF. 116 FAF. 87. / 10.5.88	78.80
	Kulaga Sy No 38 (C&D)	FAF. 111 FAF. 87. /	21.20
	Veerapura Sy No 11 (C&D)	FAF. 80 FAF. 88. /	71.20
	Barige Sy No 92 (C&D)	FAF. 93 FAF. 88. / 24.1.88	71.34
			3456.41
Shimoga	Horabylu	FFD.110 FAF.80. / 9.10.80	161.88
	Tuppur	FFD.478 FAF.91. / 3.6.94	117.95
			279.83
		Grand Total	**27151.39**

Annexure - 22

Compendium of Plantation

Sl. No.	Name of the Plantation	Year of Formation	Extent of Plantation	Location of Forest	Block Compt	Main Species	Village Map showing surveyed sketch be appended

Annexure - 23

Register of Deviation from the Working Plan

Sl. No.	Name of W.C to be deviated	Prescription to be deviated	Range	Forest	Block Compt	Changed WC	Changed Prescription	Justification for deviation	Approved from the CCF (WP)

Annexure - 24

Details of Kanlands and their Present Status

as per G.O.No. RD-32-LAD-62 Dated 6.7.65.

Hosnagar Taluk

Sl No	Name of the village		Sy.No.	Total area handed over in ha	Area notified under SF/MF/ RF in ha	Area notified under Sec 4 in ha	Area to be notified under sec 17	Balance area to be notified in ha
1	2		3	4	5	6	7	8
1	Basavapura	Kan	75 & 76	7.82	-	-	-	7.82
2	Jeni	"	16	19.10	-	-	-	19.10
3	Masagalli	"	63,64,72,34	47.55	-	-	-	47.55
4	Neelakanthantota	"	59	14.72	-	-	-	14.72
5	Haletota	"	8,14,10,12,13	75.15	-	-	-	75.15
6	Kalur	"	75	13.00	13.00	-	-	-
7	Punaje	"	55	5.69	5.69	-	-	-
8	Mumbaru	"	72	8.20	-	-	-	8.20
9	Matturu	"	28	29.99	-	30.02	30.02	-
10	M.Guddekoppa	"	22	30.02	14.50	-	-	15.52
11	Varamballi	"	-	-	-	-	-	-
12	Varkod	"	26,30	40.62	40.62	-	-	-
13	Ganganakoppa	"	30,34,47	40.95	-	-	-	40.95
14	Hiriyogi	"	24	0.24	-	-	-	0.24
15	Savantur	"	6,11,66,51	342.92	24.29	250.91	250.91	67.72
16	Kumbatti	"	50,52,7,4	11.86	-	-	-	11.86
17	Nivane	"	11,26	17.58	-	7.28	7.28	10.30
18	Borikoppa	"	3	0.42	-			0.42
19	Gawtur	"	32,12,3,4,306,328,364	66.41	-			66.41
20	Mugudthi	"	21	34.54	-			34.54
21	Hirejeni	"	10	3.68	-			3.68
22	Karakki	"	22	1.27	-			1.27
23	Kodur	"	57,81	33.86	3.47			30.39
24	K.Hunasvalli	"	56,68	22.29	18.21			4.08
25	Harathal	"	73	20.74	-			20.74
26	Hosakere	"	18	15.12	-			15.12
			TOTAL	**903.74**	**119.78**	**288.21**		**495.78**

Shiralkoppa Taluk

1	Shigga	Kan	146	622.05	523.21	98.84	98.84	0.00
		"	178	336.26	290.26	46.00	46.00	0.00
2	Induvalli	"	1	354.16	-	354.16	354.16	0.00
		"	62	50.00	-	48.20	48.20	1.80
3	Syadalkoppa	"	53	51.01	-	65.10	65.10	-14.09
4	Kanbutlu	"	3	285.08	247.14	37.94	37.94	0.00
							0.00	0.00
5	Udri	District jungle	91	253.06	-	253.06	253.06	0.00
		"	164	668.15	-	668.15	668.15	0.00
6	Negavadi	"	324	228.03	-	203.10	203.10	24.93
7	Udri	Forest jungle	103	515.31	-	515.31	515.31	0.00
8	Bedavatti	"	91	423.20	-	423.20	423.20	0.00
				3786.31	**1060.61**	**2713.06**	**2713.06**	**12.64**

1	2		3	4	5	6	7	8
Sagar Taluk								
1	Masur	Kan	145,1,47,144,102,103,129	396.32	128.38	9.6	9.6	258.34
2	Belur	"	43,93,122	90.77	-	-	-	90.77
3	Chikkanallu	"	28,37,49,168,50,159,150	327.05	50.74	254.44	254.44	21.87
4	Shiravala	"	95,99	53.96	-	-	-	53.96
5	Bilisiri	"	10,37,75,81	179.65	120.45	-	-	59.20
6	Bhimneri	"	17,18,30,36	25.75	-	-	-	25.75
7	Ullur	"	29	22.68	-	-	-	22.68
8	Madsur	"	79,47	45.82	-	-	-	45.82
9	Balasagodu	"	46	42.03	-	-	-	42.03
10	Barur	"	137	206.10	-	205.18	205.18	0.92
11	Mulkere	"	17	13.91	-	-	-	13.91
12	Nadamanchale	"	45	136.96	109.67	-	-	27.29
13	Kamblikoppa	"	1,2,82,11	88.03	-	-	-	88.03
14	Bandakoppa	"	57	3.38	-	-	-	3.38
15	Adaranthe	"	62	4.87	-	-	-	4.87
16	Marur	"	40,73	147.53	123.62	-	-	23.91
17	Marsa	"	44,27,17,18	165.86	-	16.22	16.22	149.64
18	Nadakalsi	"	1,111	250.77	-			250.77
19	Yelavarsi	"	18	8.94	-			8.94
20	Keladi	"	96	277.06	-	114.98	114.98	162.08
21	Balegere	"	13	49.04	-			49.04
22	Varadahalli	"	3	48.32	47.85			0.47
23	Avinall	"	101,35	108.68	43.08			65.60
24	Besur	"	20,50,104,84	425.86	-	488.26	488.26	-62.40
25	Marthur	"	120,190	31.25	-	31.36	31.36	-0.11
26	Kanle-Shiru	"	10,6,94,81,51,68,461,465	182.85	-	21.11	21.11	161.74
27	Shiraguppe	"	56	56.68	-			56.68
28	Mathikoppa	"	54,59,78	60.84	-			60.84
29	Genasina kun	"	121	31.00	-			31.00
30	Gulehalli	"	15,37	22.94	-			22.94
31	Sathalalu	"	41,42	127.35	-			127.35
32	Kanike	"	15	10.69	-			10.69
33	Kabbinadakoppa	"	23	26.60	-			26.60
34	Mavinasara	"	62,67	22.54	-			22.54
35	Heggodu	"	33	4.58	-			4.58
36	Heggahu	"	24	13.14	-			13.14
37	Hitur	"	11	16.19	-			16.19
38	Balagodu	"	15,43	37.70	-			37.70
39	Hessega	"	14,39	40.36	-			40.36
40	Lavigere	"	104	8.00	-			8.00
41	Hunsur	"	1	33.80	-			33.80
42	Bellenne	"	44,50	17.88	-			17.88
43	Arehadha	"	80	17.24	-			17.24
44	Hosahalli	"	35	12.41	-			12.41
45	Sasarvalli	"	80	2.97	-			2.97
46	Hosakoppa	"	53,68	40.14	-			40.14
47	Bardavalli	"	227285286	122.53	-			122.53
48	Shuntikoppa	"	133,234,22	228.32	-			228.32
49	Kugve	"	111	36.30	-			36.30
50	Kandika	"	140	12.71	-			12.71
51	Hirenellu	"	284,213,231,249	218.95	-	67.20	67.20	151.75
52	Malve	"	1	197.87	-	43.77	43.77	154.10
53	Dombe	"	38	13.27	-			13.27
54	Hulegar	"	161,84	24.16	-			24.16
55	Tadagalale	"	155,300	185.42	-			185.42
56	Sydur	"	221,272,388,344,352,358,	272.00	-			272.00
57	Honnemaradu	"	61,91	6.95	-			6.95
			TOTAL	**5254.97**	**623.79**	**1252.12**	**1252.12**	**3379.06**

1	2	3	4	5	6	7	8
Sorba Taluk							
1	Pura	Kan	59	67.75	57.52		10.23
2	Br. Holekatte	"	4	18.11	-		18.11
3	N.Holekatte	"	13	1.63	-		1.63
		"	14	0.94	-		0.94
4	Kuluvalli	"	30	75.52	52.55		22.97
	Kerekoppa	"	41	50.81	48.79		2.02
5	Eranapura (Kereko	"	91	25.17	-		25.17
		"	112	15.28	-		15.28
6	Eranapura	"	11	42.56	-		42.56
7	Nandigudde	"	7	65.45	59.18		6.27
8	Magadi	"	31	99.53	-		99.53
9	Banadakoppa	"	1	21.62	-	14.16 14.16	7.46
10	Br. Dodderi	"	29	21.88	-		21.88
11	Charantihosakoppa	"	5	6.08	-		6.08
12	Talakalakoppa	"	47	32.14	-	30.25 30.25	1.89
13	Kanahalli	"	28	112.61	-		112.61
14	Kanaur	"	26	166.78	-		166.78
		"	40	116.36	-	3.24 3.24	113.12
15	Heggodu	Jadi kan	28	21.36	20.23		1.12
16	Ulavi	"	47	23.27	20.23		3.04
		"	50	23.25	-		23.25
		"	53	55.71	47.35		8.36
17	Kaisodi	"	26	70.47	64.75		5.72
		"	90	165.00	133.55		31.45
18	Baragi	"	92	171.07	165.12		5.96
19	Halagalale	"	28	258.31	190.72	50.59 50.59	17.00
20	Nisarani	"	66	14.09	-		14.09
21	Kolisalu	"	49	70.56	55.42		15.14
22	Ammagondanakop	"	16	87.61	61.11		26.50
23	Kondagalale	"	5	115.90	68.86		47.05
24	Chilanoor	Kan	1	83.39	67.58		15.80
25	Chikkalagodu	"	18	3.96	-		3.96
26	Bennur	"	17	36.60	34.80		1.80
27	Harishi	"	116	15.77	-		15.77
		"	197	29.72	21.51		8.22
28	Mangalore	"	175	97.42	-		97.42
29	Marur	"	158	0.65	-		0.65
		"	198	21.64	-		21.64
30	Adur (Edur)	"	30	6.61	-		6.61
		"	34	43.28	43.28		0.00
		"	35	150.07	-		150.07
31	Mannattu	"	35	55.63	-		55.63
32	Kakkarsi	"	13	76.09	-		76.09
		"	14	12.56	-	18.00 18.00	-5.44
33	Absi	"	223	15.67	-		15.67
34	Andavalli	"	339	33.51	-		33.51
		"	340	16.50	-		16.50
35	Uyaguddekoppa	"	2/2	19.16	-		19.16
36	Salekoppa	"	2/1	73.33	-		
		"	2/2	73.33	-	226.22 226.22	
		"	2/3	73.32	-		
		"	2/4	71.33	-		65.08
		"	167/1	25.19	-		25.19
		"	167/2	25.19	-		25.19
		"	167/3	25.19	-		25.19
37	Kuluga	"	1/1	135.59	-		135.59
		"	1/2	135.57	-		135.57
		"	38/1	11.30	11.30		0.00

1	2	3	4	5	6	7	8
		"	38/2	11.30	10.15			1.15
38	Totlagondanakopp	"	76	45.81	18.44	44.52	44.52	-17.15
39	Kuppagadde	"	306	479.72	269.77			209.96
40	Bilavagodu	"	42	80.11				80.11
41	Tavanandi	"	195	515.02	381.75	101.17	101.17	32.10
42	Dodderikoppa	"	19	82.92	62.04	20.23	20.23	0.65
43	Bendekoppa	"	6	105.25	75.11	29.95	29.95	0.19
44	Sampagodu	"	86	5.16	-			5.16
45	Korakodu	"	9	314.40	220.46	91.06	91.06	2.88
46	Kodakani	"	4	578.60	-	321.73	321.73	256.87
47	Kuppalli	"	57	95.41	-	76.89	76.89	18.51
48	Yalasi	"	77	19.09	-			19.09
		"	102	4.14	-			4.14
		"	141	62.59	-			62.59
49	Tandige	"	58	146.42	-	136.79	136.79	9.63
50	Chikkachauti	District jungle	143	65.70	55.58			10.12
51	Thudaneer	"	32	110.18	-			110.18
		"	38	67.52	-	21.04	21.04	46.48
52	Shiddihalli	"	11	88.17	-	84.99	84.99	3.19
53	Kerehalli	"	85	54.23	-	52.61	52.61	1.62
54	Talaguppa	"	20	83.67	-	76.89	76.89	6.78
55	Harishi	"	179	94.73	76.47			18.26
56	Kunaji	Forest jungle	16	169.53	-			169.53
57	Andige	"	113	22.72	-			22.72
		"	135	41.34	-			41.34
58	Kolagunasi	"	106	95.16	-	54.63	54.63	40.53
59	Kuppagalale	"	16	124.88	88.25	30.35	30.35	6.27
60	Bhadrapura	"	16	56.24	45.06			11.18
61	Anavatti	"	133	101.06	-			101.06
62	Kuntagalale	"	70	153.09	127.48	18.21	18.21	7.40
		"	117	138.87	60.70	26.31	26.31	51.86
63	Suranige	"	69	195.55	-	176.04	176.04	19.51
64	Anavatti	"	10	65.50	-			65.50
65	Bommenhalli khan	"	33	94.96	-			94.96
				7753.46	**2715.13**	**1705.88**	**1705.88**	**3332.46**

Abstract

Hosnagara	**288.21 ha**
Shirakoppa	**12.64 ha**
Sagara	**3379.06 ha**
Soraba	**3332.46 ha**
Total	**7012.37 ha**

Annexure - 25

Statement Showing The Revenue recived during 1988-89 to 1997-98

SL No	Particulars	88-89	89-90	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98
a	***Timber and other produce removed from forest by Govt agency***										
1	01 Timber	8895171.41	3750630.27	122316.56	12529946.00	8167209.00	9422508.00	1314853.00	21962349.00	15663250.00	12619436.00
2	02 Firewood Charcoal	1836068.55	2484749.53	1567740.00	1264339.00	3174029.00	1956128.00	2185473.00	1290415.00	33418984.00	2228704.00
3	03 Bamboo	14720.00	8075.00	8388.00	66810.00	14065.00	18198.00	28435.00	426256.00	193980.00	21600.00
4	04 Supply of Bamboos to MPM	-	-	-	-	-	-	-	-	-	-
5	05 Grass and Other MFP	370822.00	-	647196.00	1595056.00	436206.00	1277246.00	1924721.00	2628571.00	1421090.00	1022934.00
b	***Timber and other Produce removed from Forest by consumers***										
1	01 Timber	102448.48	54933.69	135579.00	271958.00	260751.00	321148.00	614403.00	697183.00	199053.00	82450.00
2	02 Firewood Charcoal	6951.60	13816.43	345618.00	15965.00	12151.00	24932.00	47911.00	598700.00	56491.00	287127.00
3	03 Bamboo	3813.00	-	1971.00	1700.00	2249.00	2516.00	2893.00	1120.00	-	-
4	05 Other MFP	881530.24	445814.32	1350595.00	474399.00	968594.00	304082.00	2893.00	23946.00	-	-
5	Recipt from mains	-	-	-	-	-	-	-	-	11250.00	8017.00
c	***3800 - Other Recipts***										
1	02 Fires ad forbeiture	39231.65	38887.95	64716.00	19550.00	33591.00	12650.00	-	-	-	-
2	05 Interest on arrears of Forest Revenue	24687.25	3010.30	31768.00	32546.00	45204.00	16917.00	22230.00	-	18556.00	13578.00
3	06 Other Items	462238.25	97249.12	495120.00	1101753.00	536648.00	1568626.00	1997531.00	3499828.00	2153319.00	2248839.00
4	FDF	918886.76	610405.38	1351679	1285911	903407	1102164	1465625.00 3000.00	13107	1629161	1419740
5	011 Eucalyptus	116130.00	10227.75	21972.00	-	-	-	-	-	-	-
6	Recovered over payment			86520.00	1042.00	2336.00	156.00	10000.00	-	-	-
7	0853 Non fersourmining and metalvigical ind, 101 Mineral concastion fee of rawlty forest dept	-	-	-	-	9190.00	12973.00	-	-	-	-
8	Different Weavwood Timber							8006.00	876100.00		543511.00
	Total	**13672699.19**	**7517799.74**	**6231178.56**	**18660975.00**	**14565630.00**	**16040244.00**	**9627974.00**	**32017575.00**	**54765134.00**	**20495936.00**

Statement Showing The Details of Expenditure incurred in Sagar Division

Sl No	Budget Head	1988-89	89-90	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98
	Non Plan										
1	Machinery & equipements	495.00	5902.00	5888.00	3995.00	3950.00	21480.00	25784.00	23840.00	-	-
2	Uniform Charges	34153.00	43200.00	83588.00	58034.00	126382.00	86331.00	65000.00	104984.00	249771.00	-
3	Other Charges Voled	70265.00	72550.00	70205.00	169803.00	56850.00	79300.00	84079.00	42050.00	-	14172.00
4	51 Protection from fire	112344.00	232924.00	228162.00	324874.00	228004.00		877299.00	809408.00	425341.00	48248.00
5	52 Cultural operation	1182076.00	1101825.00	701549.00	1016148.00	942832.00	980721.00	1993093.00	1581519.00	1398537.00	1218925.00
6	51 Demarcation & Survey	17763.00	29949.00	12038.00	24825.00	10000.00	16800.00	21846.00	-	-	-
7	51 Timber remarked by Govt Agency	2283606.00	3265881.00	2901756.00	-	-	-	-	-	-	-
8	51 Timber	-	-	-	3571844.00	-	-	3065357.00	3839065.00	2741883.00	-
9	Forest produce - 51 Timber	-	-	-	-	2576435.00	3321276.00	-	-	-	-
10	52 Firewood & Charcoal	1065358.00	1013117.00	993159.00	797052.00	1080779.00	1030233.00	2114867.00	1134490.00	1250265.00	1034282.00
11	54 Sandal Extraction	135199.00	84250.00	97584.00	208343.00	253520.00	351117.00	266204.00	29730.00	72317.00	127963.00
12	Sandal Bonus	45363.00	20451.00	11189.00	3755.00	38379.00	49915.00	63284.00	56873.00	5361.00	32686.00
13	Road & Bridges	28432.00	30011.00	4949.00	19728.00	18099.00	23804.00	20766.00	18734.00	108378.00	-
14	Cross and other 4FP	93164.00	49310.00	54040.00	49600.00	75000.00	100927.00	-	-	-	-
15	Water supply & other works	16548.00	34142.00	10924.00	11202.00	8963.00	9995.00	12965.00	-	-	24122.00
16	Communication & Buildings	52898.00	62320.00	20062.00	-	-	-	-	-	16937.00	-
17	Supply of Bamboos	62076.00	88034.00	21229.00	35297.00	99337.00	-	-	135846.00	-	-
18	Vanamohostava	1977.00	1245.00	300.00	-	1075.00	3650.00	-	-	-	-
19	Compensatory Plantation	2588980.00	5226117.00	6347437.00	3141194.00	1526347.00	2241446.00	-	1208204.00	2161100.00	-
20	Compensatory Hubli-Ankola road	-	-	-	-	-	-	87151.00	-	-	-
21	Compensatory Bisagodu-Kumsi road	-	-	-	-	-	-	1374457.00	-	-	-
22	Compensatory Sea bird			780961.00	471637.00	131112.00	102575.00	-	-	-	-
23	Compensatory K.V. line			22333.00	6227.00	-	-	-	-	-	-
24	Vehicle Maintenance	11229.45	30371.00	45795.00	-	-	-	-	-	-	-
25	Fodder grass	-	10003.00	-	-	-	-	-	-	-	-
26	Silvipasture	-	85887.00	-	-	-	-	-	-	-	-
27	D.W.G	-	944599.00	517250.00	-	-	-	-	-	-	-
28	J.R.Y	-	108203.00	-	-	-	-	-	-	-	-
30	Adverticsement Publicity	-	-	1925.00	1779.00	920.00	-	-	-	-	-
31	200 Maintenance	-	-	-	39221.00	-	40000.00	27324.00	10000.00	14010.00	-
32	53 Buildings	-	-	-	30975.00	39815.00	25832.00	32099.00		75000.00	1408806.00
33	Tending in logged area	-	-	-	-	60908.00	46352.00		97829.00	337864.00	90236.00
34	Teak Plantation FDF	-	-	-	-	76021.00	57554.00	42588.00		215577.00	
35	Teak Plantation FDF	-	-	-	-	10033.00			196744.00		159622.00
36	Other Plantation FDF	-	-	-	-	779680.00	614757.00	705841.00	1203916.00	1595497.00	1380759.00
37	Other Plantation Roadside FDF	-	-	-	-	50118.00	-	-	-	-	-
38	School forestry FDF	-	-	-	-	99691.00	-	-	162282.00	174126.00	
39	Matchwood Plantation FDF	-	-	-	-	127057.00	4038.00	197876.00	-	257594.00	69284.00
40	74 Matchwood Plantation FDF	-	-	-	-	10615.00	-	-	-	-	-
41	Matchwood Plantation KFDF	-	-	-	-		95141.00	-	228434.00		

Sl No	Budget Head	1988-89	89-90	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98
42	Motor Vehicles	-	-	-	-	60000.00	55035.00	33911.00	19374.00	124536.00	33500.00
43	Forest Cane and Development protection from fire	-	-	-	-	-	199900.00	-	-	-	-
44	Supply of Bamboos	-	-	-	-	-	628223.00	230836.00		48979.00	34094.00
45	Rent, rates & Taxes	-	-	-	-	-	570.00	20497.00	16200.00	17349.00	400.00
46	Soil Conservation	-	-	-	-	-	15768.00	-	-	-	-
47	Capital outlay of Buildings	-	-	-	-	-	-	241187.00	-	-	-
48	031 Wages	-	-	-	-	-	-	-	557384.00	1198649.00	820521.00
49	General Establishment	-	-	-	-	-	-	-	187600.00	-	-
50	Bamboos or Cane plantation	-	-	-	-	-	-	-	119230.00	200378.00	-
51	Other expenses	-	-	-	-	-	-	-	-	45095.00	-
52	Compensatory Plantation 141 Wages	-	-	-	-	-	-	-	-	-	494266.00
						-	-	-	-	-	
	State Plan					-	-	-	-	-	-
1	Soil Conservation & Afforestation	24004.00	20082.00	12809.00	80600.00	-	-	-	-	-	-
2	102-01 Teak Plantation (SF)	2439.00	-	-	66835.00	-	-	42588.00	-	-	-
3	102-01 Matchwood Plantation (SF)	7297.00	7666.00	5726.00	-	-	-		-	-	-
4	102-02 Matchwood Planation FDF	103547.00	93170.00	97483.00	91062.00	-	-	197876.00	-	-	-
5	80-78 social forestry MNP	37337.00	34783.00	-	101539.00	145232.00	55506.00	244237.00	244237.00	-	-
6	R.L.E.G.P. (A.G.Account)	183354.00	-	-	-	-	-	-	-	-	-
7	R.L.E.G.P. (Z.P.Account)	237643.00	-	-	-	-	-	-	-	-	-
8	R.L.E.G.P.	-	47742.00	-	-	-	-	-	-	-	-
9	Teak FDF	56303.00	-	-	-	-	-	-	-	-	-
10	101-01 Tending in logged area	27843.00	46889.00	39644.00	36437.00	-	-	-	-	-	-
11	102-02 School Forestry FDF	85500.00	6722.00	80859.00	80931.00	-	-	-	-	-	-
12	111 Other Plantation FDF	1326802.00	937788.00	576254.00	613855.00	-	-	705841.00	-	-	-
13	Fodder form	6848.00	-	-	-	-	-	-	-	-	-
14	Silvipasture	22189.00	-	-	-	-	-	-	-	-	-
15	Biotic interference	7073.00	-	-	-	-	-	-	-	-	-
16	Biotic interference (Agave hedges)	-	-	3418.00	2992.00	1590.00	-	-	-	-	-
17	Biotic interference (Fire tracing demarcation lines)	-	-	22608.00	29367.00	44979.00	-	-	-	-	-
18	Biotic inferercne Construction of Wall	-	-	-	3000.00	2000.00	-	-	-	-	-
19	Biotic Infererence CPT & rocly	-	-	-		100904.00	-	-	-	-	-
20	308 Dev of Wetermghat (AG A/C)	40293.00	-	-	-	-	-	-	-	-	-
21	308 Dev of Wetermghat (ZP A/C)	967383.00	-	-	-	-	-	-	-	-	-
22	Wetermghat -308	-	108203.00	-	702004.00	-	-	-	505249.00	5205915.00	11986532.00
23	NREP (ZP A/C)	63449.00	-	-	-	-	-	-	-	-	-
24	60.71 Spl component plan (state)	-	3678.00	-	131953.00	80607.00	200194.00	207386.00	867961.00	1018100.00	-
25	Area oriented F&F Devi Project	-	-	773402.00	437272.00	-	-	-	-	-	-
26	CSS AOFF	-	-	-	-	194364.00	-	-	-	-	-
27	CSS Minor forest produce	-	-	30481.00	27672.00	-	-	-	-	-	-
28	Buildings	-	-	199012.00	385965.00	-	-	-	-	-	-
29	Dev. Of degraded Forest	-	-	-	60063.00	319087.00	1103689.00	1356453.00	514128.00	299263.00	50759.00

Sl No	Budget Head	1988-89	89-90	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98
30	070 Buildings	-	-	-	199484.00	-	-	-	-	-	-
31	Sandal Regeration	-	-	-	358487.00	-	-	-	-	-	-
32	Roadside Plantation	-	-	-	32831.00	82953.00	409268.00	477119.00	479883.00	34644.00	94279.00
33	Greeming in Urban area	-	-	-	-	249668.00	483468.00	246400.00	109306.00	73737.00	
34	Capital & outlay Buildings	-	-	-	-	497420.00	336781.00	-	-	-	-
35	Survey & Demarcation	-	-	-	-	49401.00	-	-	-	-	-
36	Forest Protection	-	-	-	-	172601.00	199840.00	380927.00	108224.00	-	-
37	Fire Protection	-	-	-	-	150085.00	-	-	-	-	-
38	Fuel & Fodder	-	-	-	-	-	112730.00	-	-	-	-
39	Village Forest Committee	-	-	-	-	-	15080.00	11000.00	44354.00	-	-
40	Revaving of Seedlings For Public Distgribution	-	-	-	-	-	307880.35	393609.00	95968.00	146285.00	1797000.00
41	Trible sub plan	-	-	-	-	-	-	-	507155.00	95300.00	80856.00
42	Social & form forstery Eco Tourisum	-	-	-	-	-	-	-	-	100000.00	-
43	Compentory Afforestation Encorachment regulation	-	-	-	-	-	-	-	-	-	1289421.00
	Total	**11001230.45**	**13847014.00**	**14774019.00**	**13427882.00**	**10582813.00**	**13427176.35**	**15867747.00**	**15260201.00**	**19707788.00**	**22290733.00**

Grand Total	**150186603.80**

Annexure - 26
Areas proposed for MFP plantation

Name of range	Name of village	Survey no	Year of planting	Area proposed for planting (ha)
1	**2**	**3**	**4**	**5**
Sorba	Malagadde	1	2002	20.00
	"	1	2003	20.00
	Kolisalu	28	2004	20.00
	Duguru	100	2005	20.00
	"	100	2006	20.00
	Kamarur	13	2007	20.00
	Kakkarsi		2008	20.00
	Muthuguppe		2009	20.00
	Oorugonahalli		2010	20.00
	Andavalli		2011	20.00
			Total	**200.00**
Anavatti	Talluru	306	2002	20.00
	"	285	2003	20.00
	Hurli	261	2004	20.00
	"	261	2005	20.00
	Talagadde	1	2006	20.00
	"	1	2007	20.00
	"	1	2008	20.00
	"	1	2009	20.00
	"	1	2010	20.00
	Duglihosur	7	2011	20.00
			Total	**200.00**
Sagar	Hirenallur	237	2002	20.00
	Masuru	1	2003	20.00
	Shiruguppe	56	2004	20.00
	Maras	17,18	2005	20.00
	Kurupari	68	2006	20.00
	Atawadi	10	2007	20.00
	Udri	58	2008	20.00
	Maradihalli	58	2009	20.00
	"	58	2010	20.00
	Nadakalsi	1	2011	20.00
			Total	**200.00**
Anandapuram	Chennashettikoppa	18	2002	20.00
	"	18	2003	20.00
	"	18	2004	20.00
	"	18	2005	20.00

1	2	3	4	5
	"	18	2006	20.00
			Total	**100.00**
Ambligola	Mudubasiddapur	25	2002	20.00
	"	25	2003	20.00
	Kudur	62, 63, 64	2004	20.00
	"	62, 63, 64	2005	20.00
	Kalmane	185	2006	20.00
	"	185	2007	20.00
	Kaniya	58	2008	20.00
	"	58	2009	20.00
	"	58	2010	20.00
	"	58	2011	20.00
			Total	**200.00**
Shikaripura	Sidaginahalu	1	2002	20.00
	"	1	2003	20.00
	"	1	2004	20.00
	"	1	2005	20.00
	"	1	2006	20.00
	"	1	2007	20.00
	"	1	2008	20.00
	"	1	2009	20.00
	"	1	2010	20.00
	"	1	2011	20.00
			Total	**200.00**
Hosnagara	Haridravathi XXIV	6	2002	20.00
	Hosakasave XXIV	35	2003	20.00
	Dumma XXIII	28	2004	20.00
	Sunthikoppa XXIV	37	2005	20.00
	Honnebailu	15	2006	20.00
	Amche RF XXIV	52	2007	20.00
	Totadakoppa XXIV	15	2008	20.00
	Masgallu	15	2009	20.00
	Sharavathi SF XXIII	11	2010	20.00
	Guddekoppa XXIII	30	2011	20.00
			Total	**200.00**
Shiralkoppa	Kavadi SF	15	2002	10.00
			Total	**10.00**
			Grand Total	**1310.00**

Note: No area has been proposed in Nagar and Kargal ranges, as suitable areas are not available. In Anandapuram and Shiralkoppa ranges, availability of suitable areas for planting is limited. Hence, lesser extents have been proposed.

Annexure - 27
Areas proposed for Herbal Gardens

Name of range	Name of village	Survey no	Year of planting	Area proposed for planting (ha)
1	**2**	**3**	**4**	**5**
Sorba	Malagadde	1	2002	20.00
	"	1	2003	20.00
	Kolisalu	28	2004	20.00
	Duguru	100	2005	20.00
	"	100	2006	20.00
	Kamarur	93	2007	20.00
	Kakkarsi	10	2008	20.00
	Muthuguppe	-	2009	20.00
	"	-	2010	20.00
	"	-	2011	20.00
			Total	**200.00**
Anavatti	Talluru	306	2002	20.00
	"	273	2003	20.00
	"	273	2004	20.00
	Hurli	285	2005	20.00
	"	261	2006	20.00
	Kerekoppa T.G. Koppa	10, 5, 6	2007	20.00
	Talagadde	1	2008	20.00
	"	1	2009	20.00
	"	1	2010	20.00
	Sarekoppa	2	2011	20.00
			Total	**200.00**
Nagara	Valuru	38	2002	20.00
	"	38	2003	20.00
	"	38	2004	20.00
	"	38	2005	20.00
	"	38	2006	20.00
	"	38	2007	20.00
	"	38	2008	20.00
	"	38	2009	20.00
	"	38	2010	20.00
	"	38	2011	20.00
	"	38	**Total**	**200.00**
Sagar	Hirenallur	237	2002	20.00
	Masuru	1	2003	20.00
	Shiruguppe	56	2004	20.00
	Maras	17,18	2005	20.00
	Kurupari	68	2006	20.00
	Atawadi	10	2007	20.00
	Udri	58	2008	20.00

1	2	3	4	5
	Maradihalli	58	2009	20.00
	"	58	2010	20.00
	Nadakalsi	1	2011	20.00
			Total	**200.00**
Ambligola	Saluru	691, 829, 83	2002	20.00
	"	691, 829, 83	2003	20.00
	"	691, 829, 83	2004	20.00
	"	691, 829, 83	2005	20.00
	"	691, 829, 83	2006	20.00
	"	691, 829, 83	2007	20.00
	"	691, 829, 83	2008	20.00
	"	691, 829, 83	2009	20.00
	Arasinagere	102	2010	20.00
	"	102	2011	20.00
			Total	**200.00**
Shikaripura	Harogoppa	12	2002	20.00
	"	12	2003	20.00
	"	12	2004	20.00
	"	12	2005	20.00
	"	12	2006	20.00
	"	12	2007	20.00
	"	12	2008	20.00
	"	12	2009	20.00
	"	12	2010	20.00
	"	12	2011	20.00
			Total	**200.00**
Hosnagara	Kolgi SF XXIII	9	2002	20.00
	Anegadde XXIII	33	2003	20.00
	Koduru SF XXIV	4	2004	20.00
	Kadasuru XXIII	19	2005	20.00
	L.Guddekoppa XXIII	26	2006	20.00
	Kanambaduru XXIV	25	2007	20.00
	Adavalli XXIV	40	2008	20.00
	Karakki XXIV	34	2009	20.00
	Haniya XXIV	1	2010	20.00
	Koduru	5	2011	20.00
			Total	**200.00**
Shiralkoppa	Kavadi SF	75, 76, 78	2002	20.00
			Total	**20.00**
			Grand Total	**1420.00**

Note: No area has been proposed in Anandapuram and Kargal ranges, as suitable areas are not available. In Shiralkoppa ranges, availability of suitable areas for planting is limited. Hence, lesser extents have been proposed.

Annexure - 28

Details of areas in Rehabilitation of degraded forests workign circle.

Sl No	Name of Forest	SF / MF	Block and Compartment	Area allotted to RDF WC (ha)	Remarks: Poor rootstock: (P.R.S) Good rootstock: (G.R.S.)
1	2	3	4	5	6
a)	**Ambilogala range**				
	Belandur	SF	XII-6	268.56	P.R.S
			XII-9(p)	58.46	P.R.S
				327.02	
	Karidibetta	SF	XI-7	141.58	P.R.S
			XI-8	4.04	P.R.S
			XI-9	75.34	P.R.S
			XI-10	28.23	P.R.S
			XI-11	44.87	P.R.S
			XI-22(p)	165.19	P.R.S
			XI-26(p)	67.00	P.R.S
			XI-27(p)	0.91	P.R.S
			XI-33(p)	61.25	P.R.S
				588.41	
	Kotta	MF	IX-10(p)	25.34	P.R.S
	Salur	MF	XI-1	16.48	P.R.S
			IX-13(p)	42.3	P.R.S
				84.12	
			Range Total	**999.55**	
b)	**Anandapuram Range**				
	Kardibetta	SF	XI-23	132.01	P.R.S
				132.01	
	Adur	MF	XIII-21	178.07	P.R.S
				178.07	
	Koragi	RF	XIV-15	44.03	P.R.S
			Range Total	**354.11**	
c)	**Anavatti Range**				
	Bettadakurali	SF	VI-6	219.87	G.R.S
			VI-7	40.66	G.R.S
				260.53	
	Talagadde	SF	V-2	85.18	P.R.S
			V-3	16.82	P.R.S
			V-4	245.41	P.R.S
			V-5	247.84	P.R.S

1	2	3	4	5	6
				595.25	
	Dodderikoppa	MF	IV-B	137.49	P.R.S
	Hasvi	MF	VI-5	78.29	P.R.S
	Haya	MF	VI-11	71.17	P.R.S
	Korakodu	MF	IV-7	177.05	P.R.S
	Kotekoppa	MF	IV-1	156.71	P.R.S
				620.71	
			Range Total	**1476.49**	
d)	**Hosnagara Range**				
	Haridravathi	SF	XXIV-6	127.60	G.R.S
			XXIV-7	13.40	G.R.S
				141.00	
	Haniya	SF	XXVII-1	279.10	G.R.S
				279.10	
	Kodur	SF	XXIV-1	302.73	G.R.S
			XXIV-4	146.46	G.R.S
			XXIV-5	322.73	G.R.S
				771.92	
	Kolagi	SF	XXIII-8	96.62	G.R.S
			XXIII-9	167.56	G.R.S
				264.18	
	Sharavathi	SF	XXIII-11	171.66	G.R.S
			XXIII-12	253.50	G.R.S
			XXIII-13	289.57	G.R.S
			XXIII-14	196.42	G.R.S
				911.15	
	Aduvalli	RF	XXIV-40	52.95	P.R.S
	Amche	RF	XXIV-52	45.73	G.R.S
	Anegadde	RF	XXIII-33	140.53	G.R.S
	Balekoppa	RF	XXVII-16	27.82	G.R.S
	Dodabiligodu	RF	XXIV-49	83.77	G.R.S
	Dumma	RF	XXIII-27	6.77	G.R.S
			XXIII-28	39.26	G.R.S
				46.03	
	II Kalkoppoa	RF	XXIV-38	25.32	P.R.S
				25.32	
	Hiriyogi	RF	XXIV-39	27.34	G.R.S
	Honnebylu	RF	XXIII-15	30.23	G.R.S
	Hosakesare	RF	XXIV-35	112.17	G.R.S
	Humcha	RF	XXIII-31	21.33	P.R.S
			XXIII-32	15.21	P.R.S
				36.54	
	Hebbylu, Amchi	RF	XIII-23	276.08	P.R.S
	Kadasuru	RF	XXIII-19	241.58	G.R.S

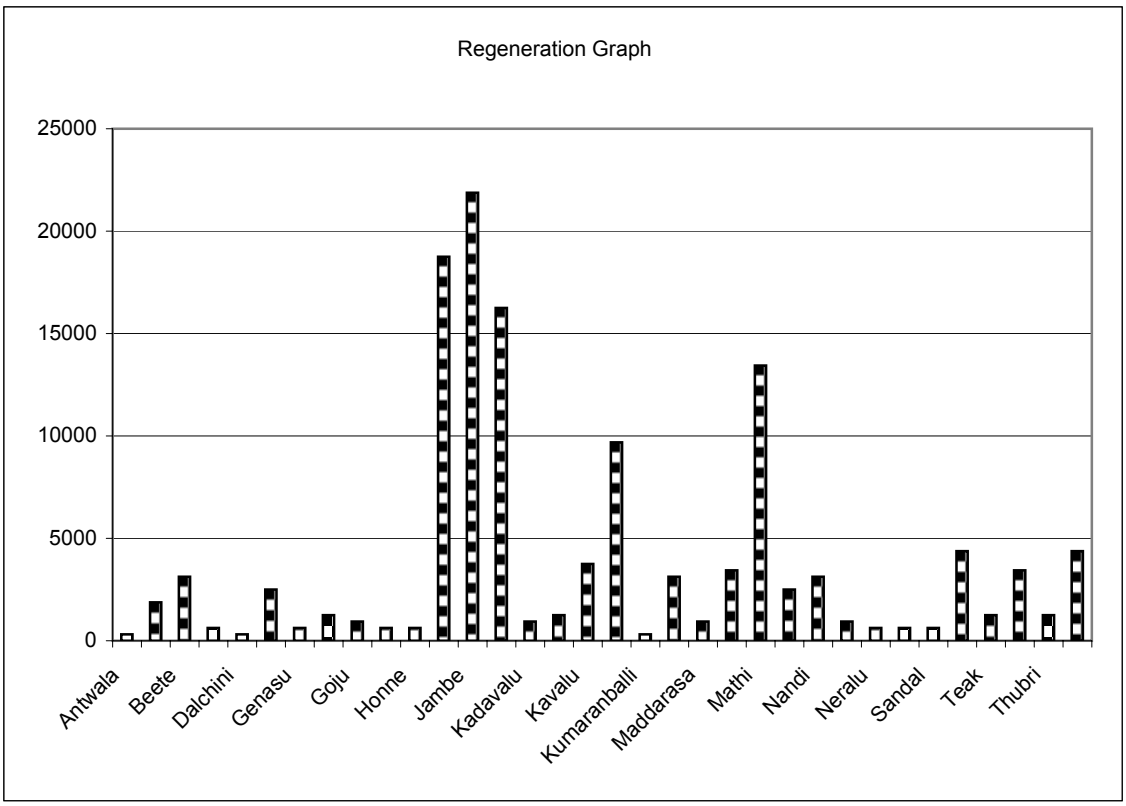
1	2	3	4	5	6
	Kanabandur	RF	XXIV-25	362.89	P.R.S
	Karakki	RF	XXIV-34	98.23	G.R.S
	Kerehalli	RF	XXIV-37	160.84	P.R.S
	Shuntikoppa	RF	XXIII-30	65.26	P.R.S
	L.Guddekoppa	RF	XXIII-26	150.66	P.R.S
				150.66	
	Maluru	RF	XXIII-16	22.80	G.R.S
	Masakallu	RF	XXIII-17	147.92	G.R.S
				170.72	
	Nagarahalli	RF	XXIV-45	26.71	G.R.S
				26.71	
	Salageri	RF	XXVII-17	24.24	G.R.S
				24.24	
	Totadakoppa	RF	XXIV-51	123.33	G.R.S
				123.33	
			Range Total	**4696.32**	
e)	**Nagara Range**				
	Kodasi	SF	XXVII-3	424.27	G.R.S
				424.27	
f)	**Sagar Range**				
	Avinahali	SF	XVI-1	64.30	P.R.S
			XVI-2	0.87	G.R.S
			XVI-3	19.54	G.R.S
				84.71	
	Bilisiri	RF	XV-14	120.45	P.R.S
				120.45	
			Range Total	**205.16**	
g)	**Shikaripura Range**				
	Chandrakala	SF	IX-2	364.09	P.R.S
			IX-3	370.25	P.R.S
			IX-4	546.94	P.R.S
			IX-5	254.56	P.R.S
			IX-6	364.42	P.R.S
				1900.26	
	Gangavansara	SF	X-6	309.37	P.R.S
			X-7	164.01	P.R.S
			X-8	72.94	P.R.S
			X-9	286.21	P.R.S
			X-10	316.91	P.R.S
			X-12	290.70	G.R.S
			X-13	264.92	G.R.S
			X-14	86.60	G.R.S

1	2	3	4	5	6
			X-15	276.30	G.R.S
				2067.96	
	Yerekatte	SF	IX-17	194.03	G.R.S
	Harogoppa	MF	X-21	15.46	P.R.S
	Kaginelli	MF	X-1	1361.46	P.R.S
	Kotta	MF	IX-10(p)	38.94	P.R.S
	Suthabande	MF	IX-12(p)	137.05	G.R.S
				137.05	
	Kesarghatta	TF	X-20	102.03	G.R.S
	Basavapura	Blk	IX-25	292.74	P.R.S
			Range Total	**6109.93**	
h)	**Shiralkoppa Range**				
	Chikkasavi	SF	VII-10	82.50	G.R.S
	Kavadi	SF	VII-11	111.46	G.R.S
	Shigga-I	SF	VII-12	169.46	P.R.S
	Sydalkoppa-I	SF	VII-16	49.33	P.R.S
	Sydalkoppa-II	SF	VII-17	53.96	P.R.S
	Udri	SF	VII-2	169.97	G.R.S
	Kodihalli	MF	VII-5	10.21	P.R.S
			Range Total	**646.89**	
i)	**Soraba Range**				
	Absi	SF	II-8	174.72	P.R.S
				174.72	
	Chandragutti	SF	I-9	170.67	P.R.S
			I-10	170.75	P.R.S
			I-11	195.54	P.R.S
			I-12	251.93	P.R.S
			I-13	188.44	P.R.S
			I-16	191.27	P.R.S
				1168.60	
	Kuntagalale-I	SF	I-7	321.34	P.R.S
	Kuntagalale-II	SF	I-8	278.13	P.R.S
	Ankaravalli	MF	II-6	133.58	P.R.S
	Chandragutti	MF	I-17	77.82	P.R.S
	Hosabale	MF	II-14	3.98	P.R.S
	Kaisodi	MF	XV-1	50.41	P.R.S
	Nadahalli	MF	II-11	221.05	P.R.S
	Nyarsi	MF	I-19	129.74	P.R.S
			Range Total	**2559.37**	
			Grand Total	**17472.09**	

Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Ambligola
Name of the Forest - Belandur SF
Block No - XII
Comp No - 1,2,3,4,5,7,8,9,10,11,12,13,14,15,16,17
Extent of Compartment -

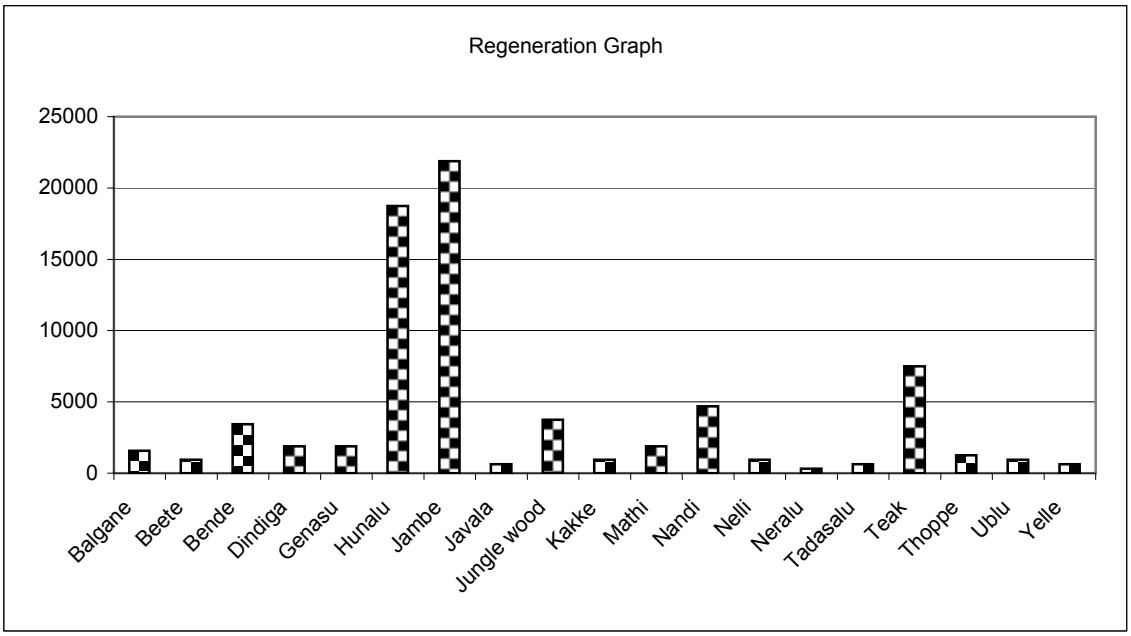
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Antwala	1	313	
2	Balgane	3	1875	
3	Beete	5	3125	
4	Bende	1	625	
5	Dalchini	1	313	
6	Dindiga	4	2500	
7	Genasu	1	625	
8	Godda	2	1250	
9	Goju	2	938	
10	Hale	1	625	
11	Honne	1	625	
12	Hunalu	30	18750	
13	Jambe	35	21875	
14	Jungle wood	26	16250	
15	Kadavalu	2	938	
16	Kakke	2	1250	
17	Kavalu	6	3750	
18	Kodasa	16	9688	
19	Kumaranballi	1	313	
20	Maddale	5	3125	
21	Maddarasa	2	938	
22	Mase	6	3438	
23	Mathi	22	13438	
24	Mullu	4	2500	
25	Nandi	5	3125	
26	Nelli	2	938	
27	Neralu	1	625	
28	Salle	1	625	
29	Sandal	1	625	
30	Tadasalu	7	4375	
31	Teak	2	1250	
32	Thare	6	3438	
33	Thubri	2	1250	
34	Yethiga	7	4375	
		208	**129688**	


Regeneration Graph
25000
20000
15000
10000
5000
0
Antwala
Beete
Dalchini
Genasu
Goju
Honne
Jambe
Kadavalu
Kavalu
Kumaranballi
Maddarasa
Mathi
Nandi
Neralu
Sandal
Teak
Thubri

Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Ambligola
Name of the Forest - Karadibetta SF
Block No - XI
Comp No - 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
- 23,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,42
Extent of Compartment 114.93

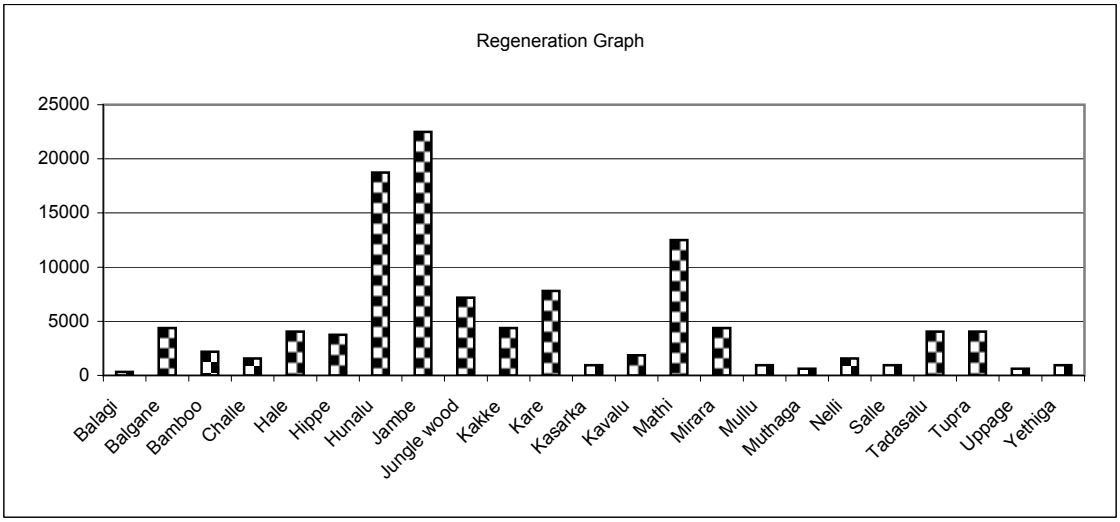
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Balgane	3	1563	
2	Beete	2	938	
3	Bende	6	3438	
4	Dindiga	3	1875	
5	Genasu	3	1875	
6	Hunalu	30	18750	
7	Jambe	35	21875	
8	Javala	1	625	
9	Jungle wood	6	3750	
10	Kakke	2	938	
11	Mathi	3	1875	
12	Nandi	8	4688	
13	Nelli	2	938	
14	Neralu	1	313	
15	Tadasalu	1	625	
16	Teak	12	7500	
17	Thoppe	2	1250	
18	Ublu	2	938	
19	Yelle	1	625	
		119	**74375**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Anandapura
Name of the Forest - Malandur SF
Block No - XIII
Comp No - 8,9,10,11,12,13,14,15
16,17,18,19
Extent of Compartment -

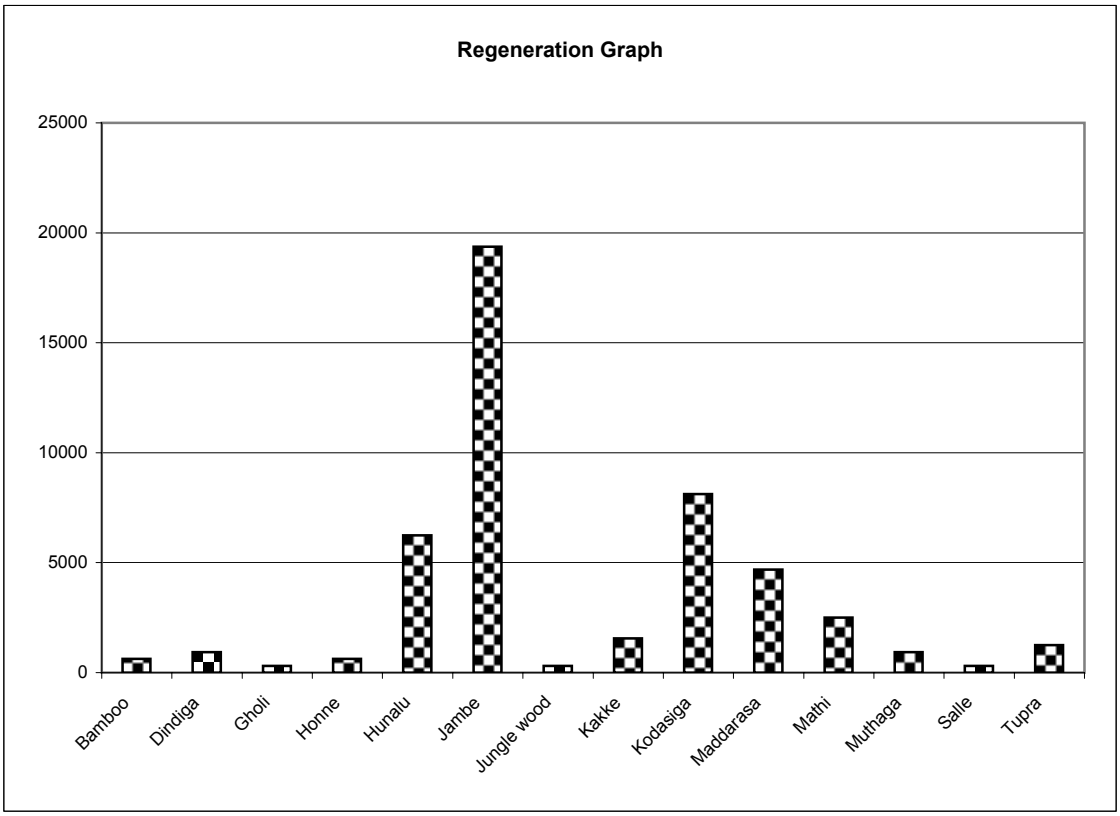
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Balagi	1	313	
2	Balgane	7	4375	
3	Bamboo	4	2188	
4	Challe	3	1563	
5	Hale	7	4063	
6	Hippe	6	3750	
7	Hunalu	30	18750	
8	Jambe	36	22500	
9	Jungle wood	12	7188	
10	Kakke	7	4375	
11	Kare	13	7813	
12	Kasarka	2	938	
13	Kavalu	3	1875	
14	Mathi	20	12500	
15	Mirara	7	4375	
16	Mullu	2	938	
17	Muthaga	1	625	
18	Nelli	3	1563	
19	Salle	2	938	
20	Tadasalu	7	4063	
21	Tupra	7	4063	
22	Uppage	1	625	
23	Yethiga	2	938	
		177	**110313**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Anandapura
Name of the Forest - Telaginamane SF
Block No - XIII
Comp No - 1,2,4
Extent of Compartment -

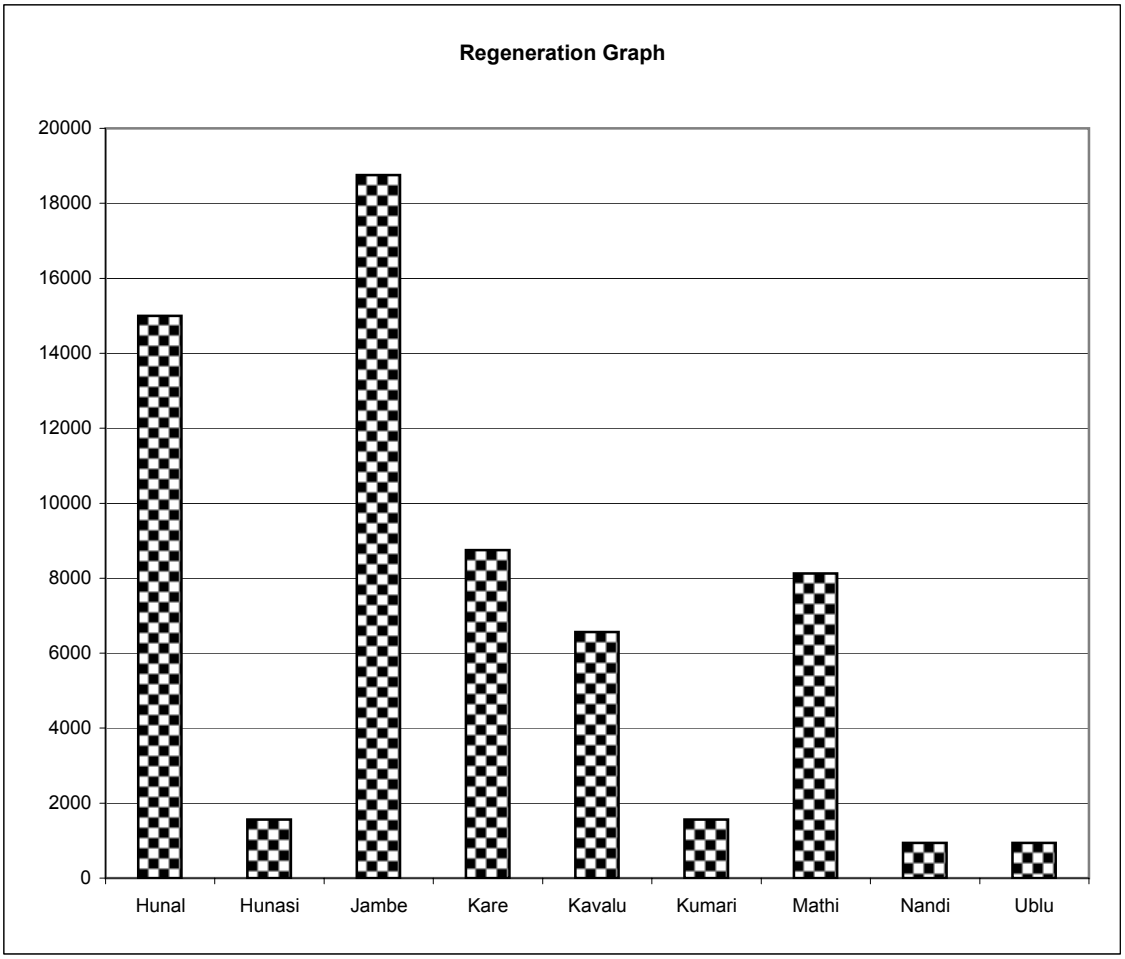
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Bamboo	1	625	
2	Dindiga	2	938	
3	Gholi	1	313	
4	Honne	1	625	
5	Hunalu	10	6250	
6	Jambe	31	19375	
7	Jungle wood	1	313	
8	Kakke	3	1563	
9	Kodasiga	13	8125	
10	Maddarasa	8	4688	
11	Mathi	4	2500	
12	Muthaga	2	938	
13	Salle	1	313	
14	Tupra	2	1250	
		77	**47813**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Anavatti
Name of the Forest - Bettadakurli-SF
Block No - VI
Comp No - 6,7,8
Extent of Compartment -

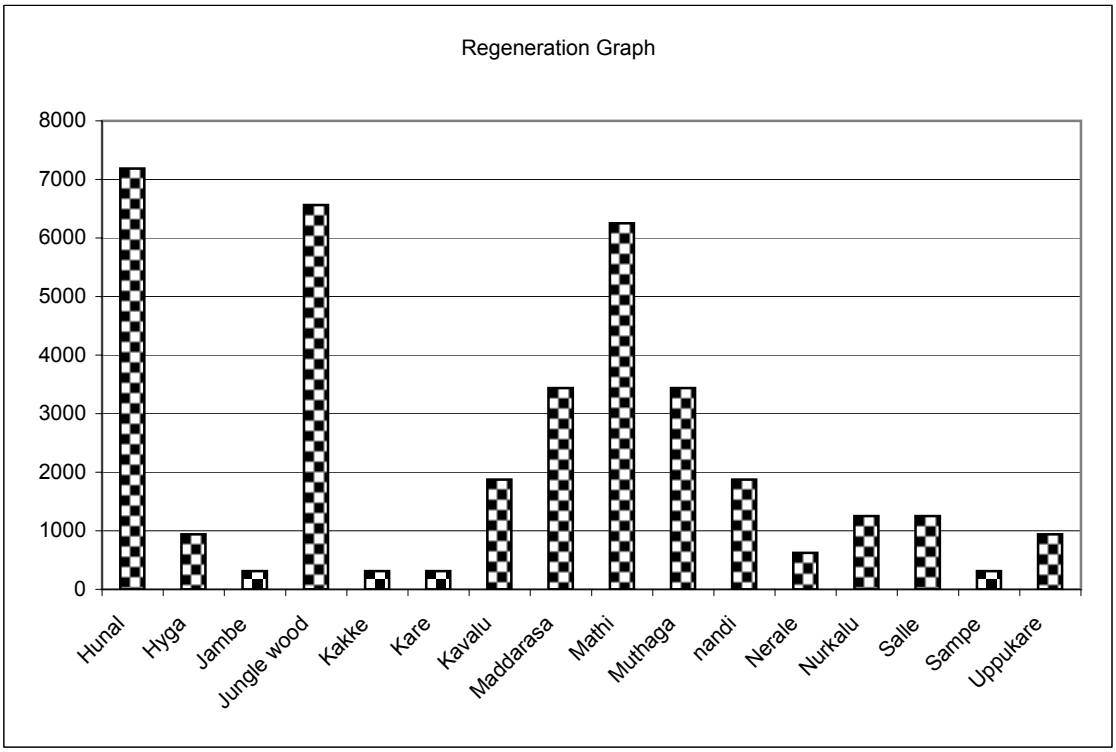
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Hunal	24	15000	
2	Hunasi	3	1563	
3	Jambe	30	18750	
4	Kare	14	8750	
5	Kavalu	11	6563	
6	Kumari	3	1563	
7	Mathi	13	8125	
8	Nandi	2	938	
9	Ublu	2	938	
		100	**62188**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Anavatti
Name of the Forest - Harishi SF
Block No - I
Comp No - 5,6
Extent of Compartment -

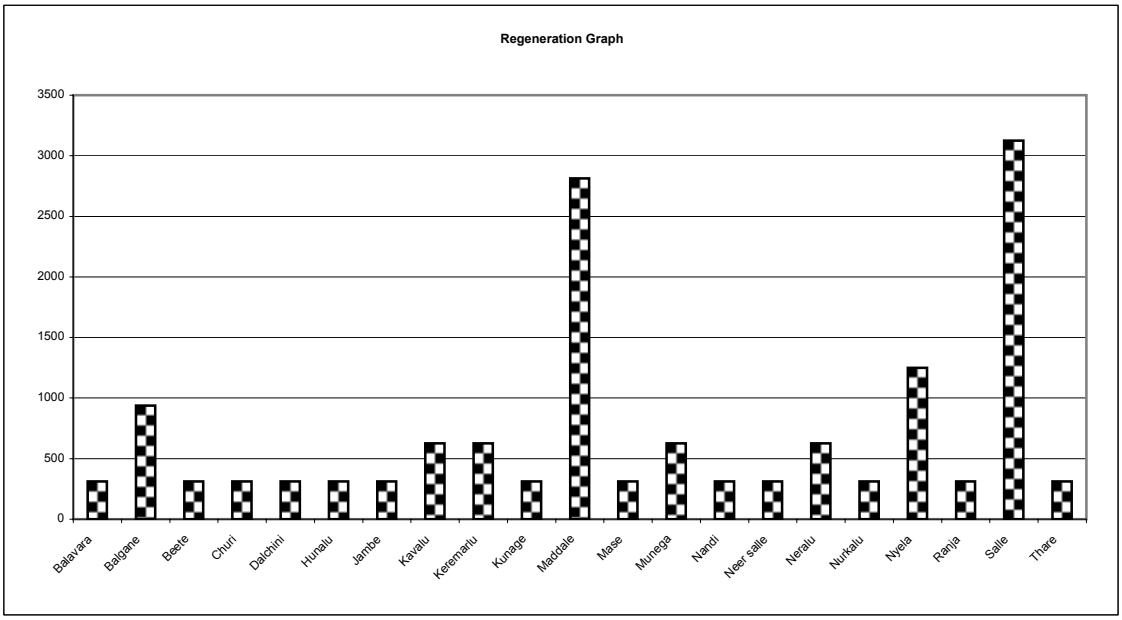
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Hunal	12	7188	
2	Hyga	2	938	
3	Jambe	1	313	
4	Jungle wood	11	6563	
5	Kakke	1	313	
6	Kare	1	313	
7	Kavalu	3	1875	
8	Maddarasa	6	3438	
9	Mathi	10	6250	
10	Muthaga	6	3438	
11	nandi	3	1875	
12	Nerale	1	625	
13	Nurkalu	2	1250	
14	Salle	2	1250	
15	Sampe	1	313	
16	Uppukare	2	938	
		59	**36875**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Hosanagara
Name of the Forest - Haniya SF
Block No - XXVII
Comp No - 1,2
Extent of Compartment -

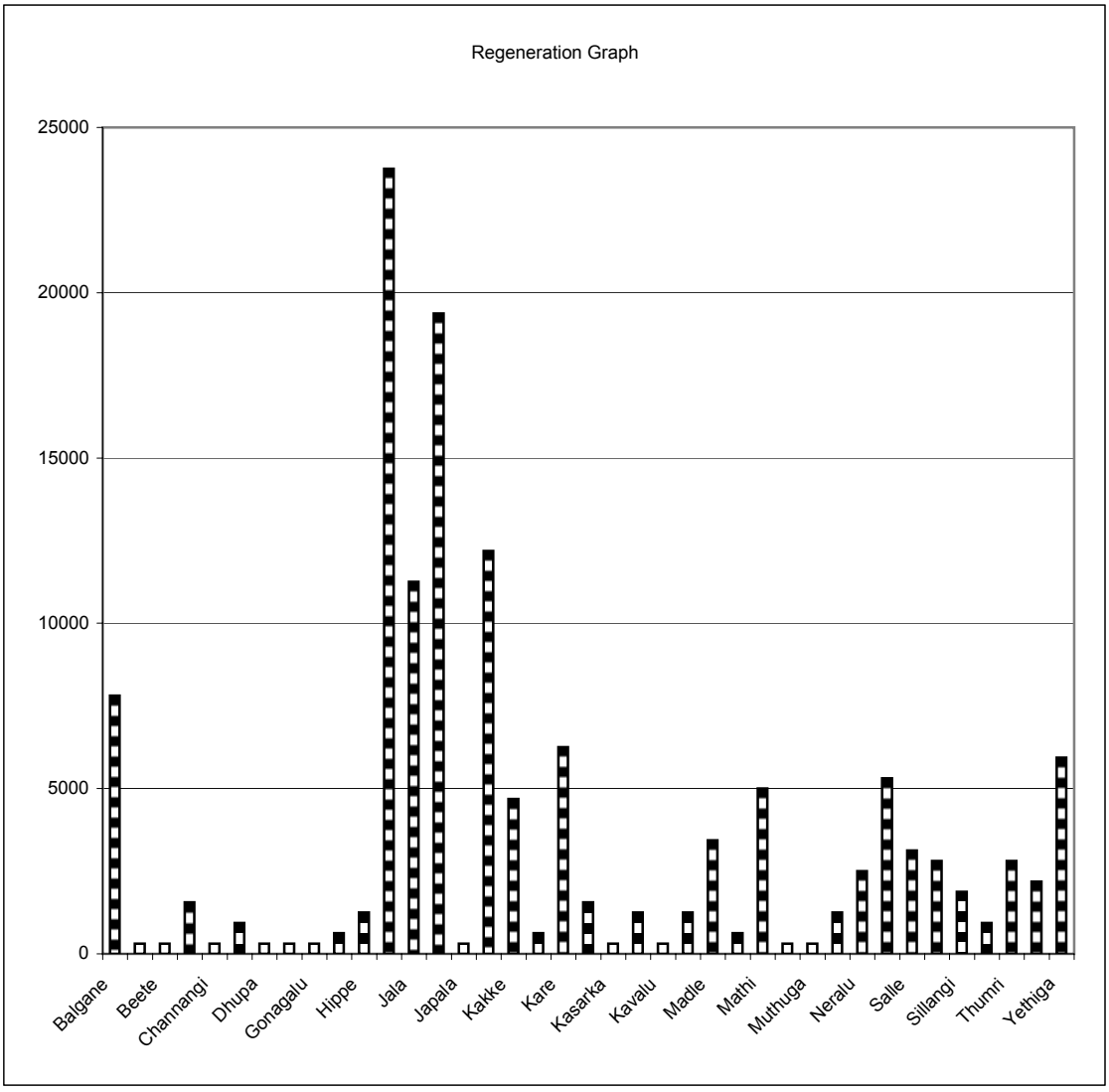
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Balavara	1	313	
2	Balgane	2	938	
3	Beete	1	313	
4	Churi	1	313	
5	Dalchini	1	313	
6	Hunalu	1	313	
7	Jambe	1	313	
8	Kavalu	1	625	
9	Keremarlu	1	625	
10	Kunage	1	313	
11	Maddale	5	2813	
12	Mase	1	313	
13	Munega	1	625	
14	Nandi	1	313	
15	Neer salle	1	313	
16	Neralu	1	625	
17	Nurkalu	1	313	
18	Nyela	2	1250	
19	Ranja	1	313	
20	Salle	5	3125	
21	Thare	1	313	
		24	**14688**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Hosanagara
Name of the Forest - Haridravathi SF
Block No - XXIV
Comp No - 6,7,8,9,10,11,12,13,14,15
Extent of Compartment -

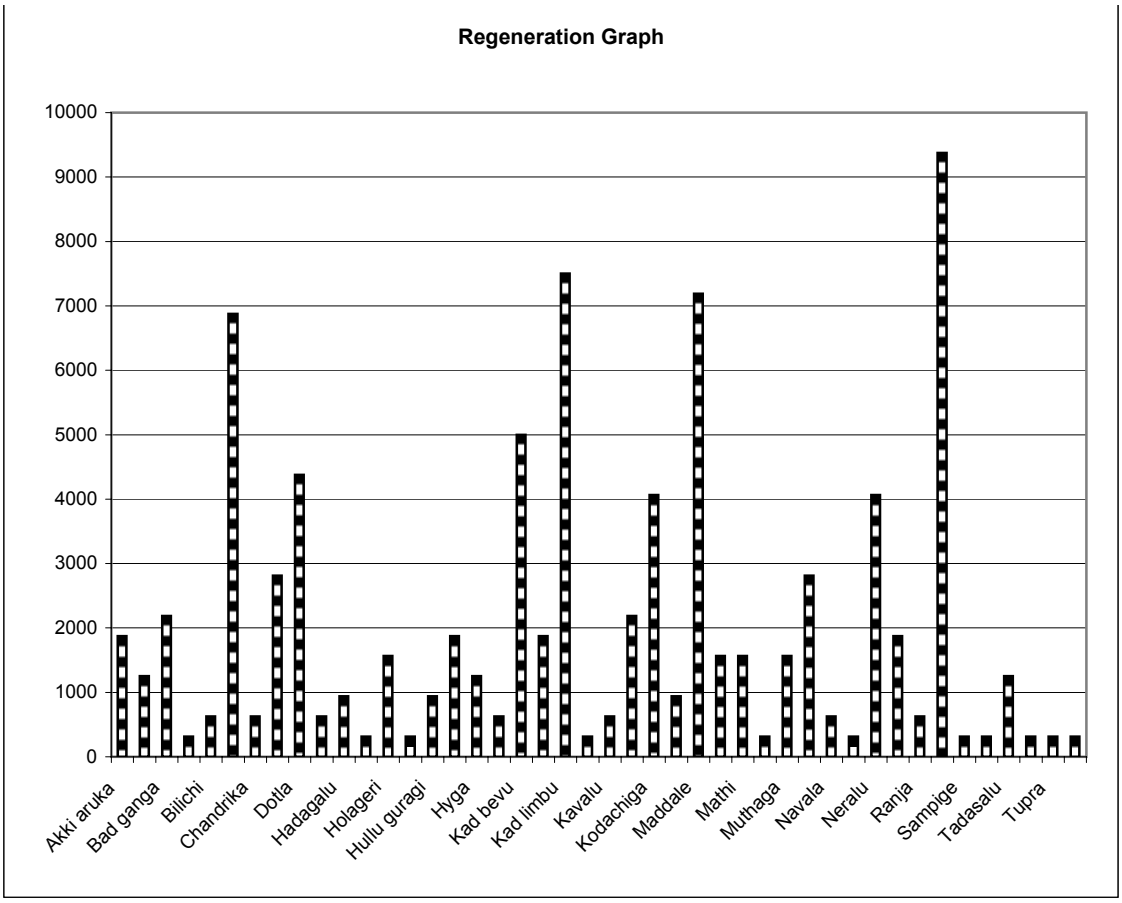
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Balgane	13	7813	
2	Basri	1	313	
3	Beete	1	313	
4	Bilwara	3	1563	
5	Channangi	1	313	
6	Dalchini	2	938	
7	Dhupa	1	313	
8	Genasu	1	313	
9	Gonagalu	1	313	
10	Hebbalasu	1	625	
11	Hippe	2	1250	
12	Hunalu	38	23750	
13	Jala	18	11250	
14	Jambe	31	19375	
15	Japala	1	313	
16	Jungle wood	20	12188	
17	Kakke	8	4688	
18	Kanagalu	1	625	
19	Kare	10	6250	
20	Karimara	3	1563	
21	Kasarka	1	313	
22	Kasarka	2	1250	
23	Kavalu	1	313	
24	Kendale	2	1250	
25	Madle	6	3438	
26	Mase	1	625	
27	Mathi	8	5000	
28	Mavu	1	313	
29	Muthuga	1	313	
30	Nandi	2	1250	
31	Neralu	4	2500	
32	Nurkalu	9	5313	
33	Salle	5	3125	
34	Sampige	5	2813	
35	Sillangi	3	1875	
36	Thare	2	938	
37	Thumri	5	2813	
38	Yedagalu	4	2188	
39	Yethiga	10	5938	
		198	**123438**	


Regeneration Graph
25000
20000
15000
10000
5000
0
Balgane
Beete
Channangi
Dhupa
Gonagalu
Hippe
Jala
Japala
Kakke
Kare
Kasarka
Kavalu
Madle
Mathi
Muthuga
Neralu
Salle
Sillangi
Thumri
Yethiga

Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Kargal WL
Name of the Forest - Channagonda SF
Block No - XIX
Comp No - 14,16,17,18
Extent of Compartment -

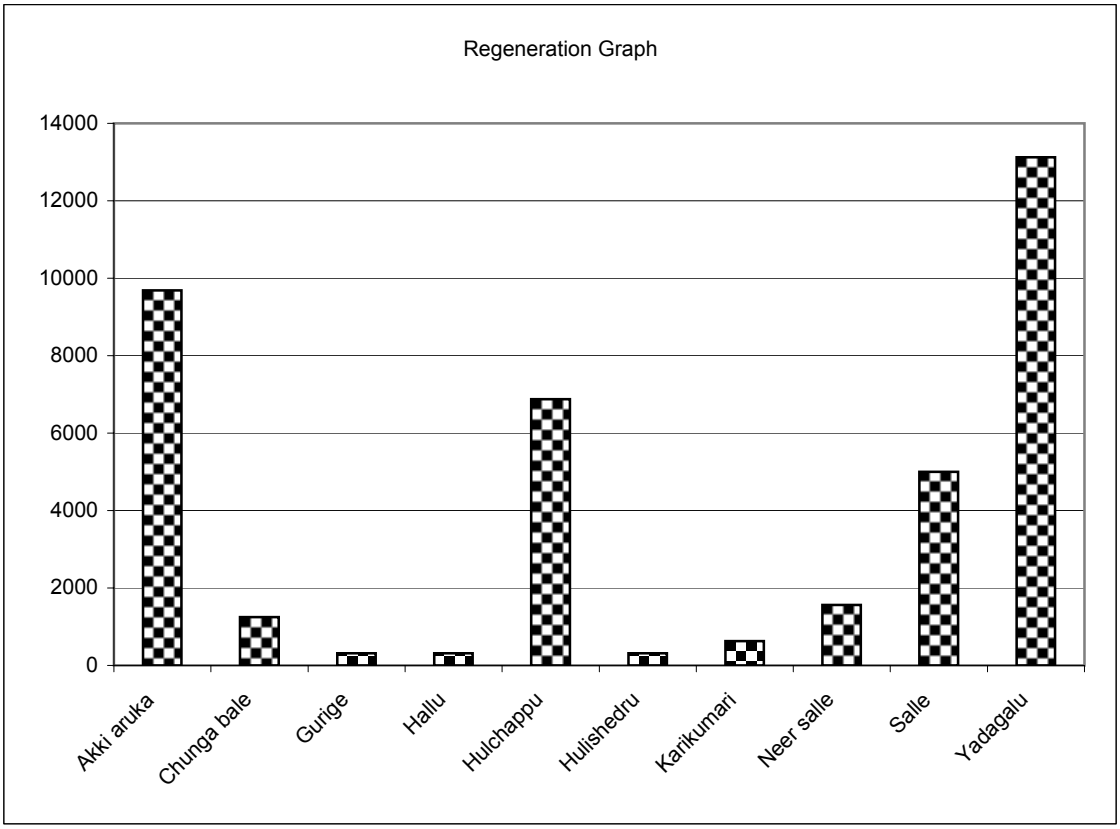
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Akki aruka	3	1875	
2	Alale	2	1250	
3	Bad ganga	4	2188	
4	Banata	1	313	
5	Bilichi	1	625	
6	Cane	11	6875	
7	Chandrika	1	625	
8	Chunga	5	2813	
9	Dotla	7	4375	
10	Gurige	1	625	
11	Hadagalu	2	938	
12	Halasu	1	313	
13	Holageri	3	1563	
14	Honne	1	313	
15	Hullu guragi	2	938	
16	Hunalu	3	1875	
17	Hyga	2	1250	
18	Jungle wood	1	625	
19	Kad bevu	8	5000	
20	Kad kadle	3	1875	
21	Kad limbu	12	7500	
22	Kai dhupa	1	313	
23	Kavalu	1	625	
24	Kendale	4	2188	
25	Kodachiga	7	4063	
26	Kunneralu	2	938	
27	Maddale	12	7188	
28	Maddarasa	3	1563	
29	Mathi	3	1563	
30	Mavu	1	313	
31	Muthaga	3	1563	
32	Nandi	5	2813	
33	Navala	1	625	
34	Nelli	1	313	
35	Neralu	7	4063	
36	Nurkalu	3	1875	
37	Ranja	1	625	
38	Salle	15	9375	
39	Sampige	1	313	
40	Sur honne	1	313	
41	Tadasalu	2	1250	
42	Thare	1	313	
43	Tupra	1	313	
44	Uppage huli	1	313	
		139	**86563**	


Regeneration Graph
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Akki aruka
Bad ganga
Bilichi
Chandrika
Dotla
Hadagalu
Holageri
Hullu guragi
Hyga
Kad bevu
Kad limbu
Kavalu
Kodachiga
Maddale
Mathi
Muthaga
Navala
Neralu
Ranja
Sampige
Tadasalu
Tupra

Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Kargal WL
Name of the Forest - Attigodu SF
Block No - XIX
Comp No - 2,3
Extent of Compartment -

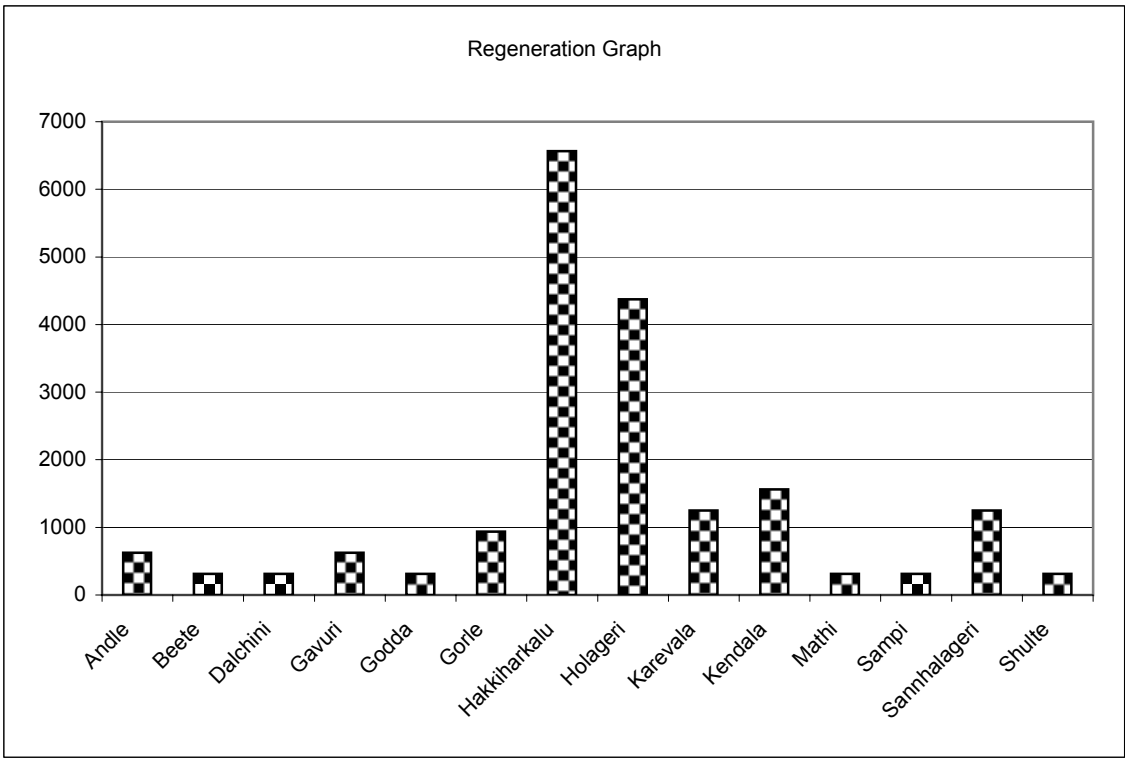
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Akki aruka	16	9688	
2	Chunga bale	2	1250	
3	Gurige	1	313	
4	Hallu	1	313	
5	Hulchappu	11	6875	
6	Hulishedru	1	313	
7	Karikumari	1	625	
8	Neer salle	3	1563	
9	Salle	8	5000	
10	Yadagalu	21	13125	
		63	**39063**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Sagar
Name of the Forest - Bellenne SF
Block No - XVII
Comp No - 4,5,6
Extent of Compartment -

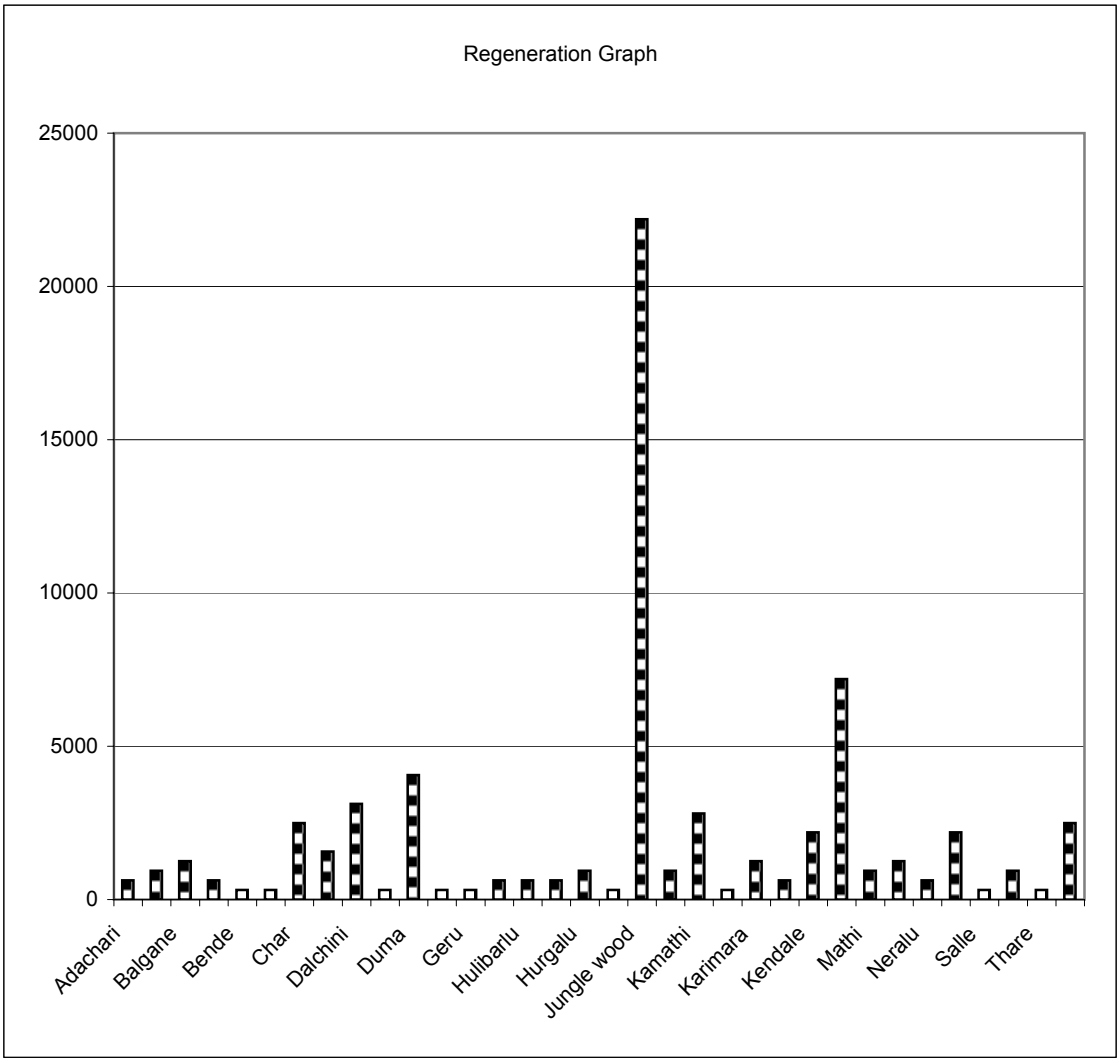
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Andle	1	625	
2	Beete	1	313	
3	Dalchini	1	313	
4	Gavuri	1	625	
5	Godda	1	313	
6	Gorle	2	938	
7	Hakkiharkalu	11	6563	
8	Holageri	7	4375	
9	Karevala	2	1250	
10	Kendala	3	1563	
11	Mathi	1	313	
12	Sampi	1	313	
13	Sannhalageri	2	1250	
14	Shulte	1	313	
		31	**19063**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Nagar
Name of the Forest - Chakra RF
Block No - XXV
Comp No - 12,13,14,15
Extent of Compartment -

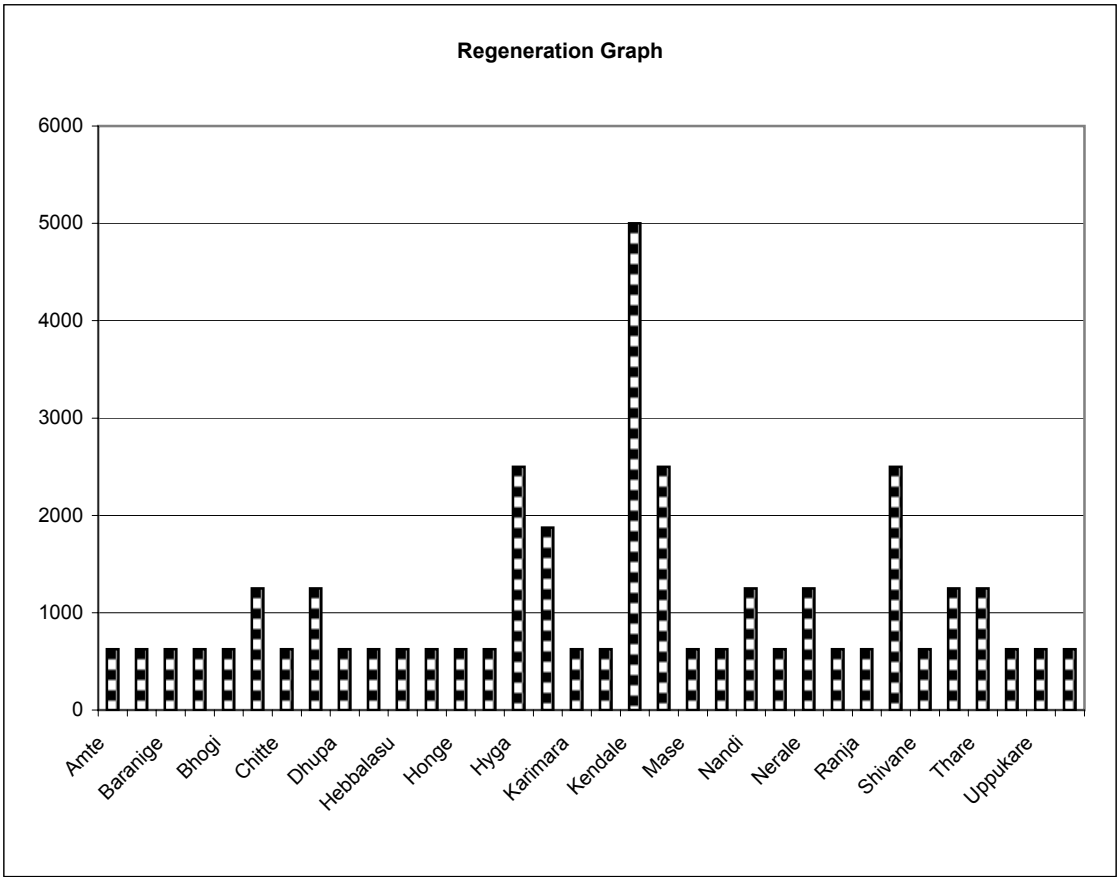
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Adachari	1	625	
2	Bagini	2	938	
3	Balgane	2	1250	
4	Batlu chandrika	1	625	
5	Bende	1	313	
6	Change	1	313	
7	Char	4	2500	
8	Chung	3	1563	
9	Dalchini	5	3125	
10	Dippaladaleege	1	313	
11	Duma	7	4063	
12	Garaga	1	313	
13	Geru	1	313	
14	Holegeru	1	625	
15	Hulibarlu	1	625	
16	Hunalu	1	625	
17	Hurgalu	2	938	
18	Hyga	1	313	
19	Jungle wood	36	22188	
20	Kadukithale	2	938	
21	Kamathi	5	2813	
22	Kanagalu	1	313	
23	Karimara	2	1250	
24	Kavalu	1	625	
25	Kendale	4	2188	
26	Maddale	12	7188	
27	Mathi	2	938	
28	Mavu	2	1250	
29	Neralu	1	625	
30	Rajnalu	4	2188	
31	Salle	1	313	
32	Sampige	2	938	
33	Thare	1	313	
34	Yennemara	4	2500	
		106	**65938**	


Regeneration Graph
25000
20000
15000
10000
5000
0
Adachari
Balgane
Bende
Char
Dalchini
Duma
Geru
Hulibarlu
Hurgalu
Jungle wood
Kamathi
Karimara
Kendale
Mathi
Neralu
Salle
Thare

Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Nagar
Name of the Forest - Honnaramagane & Menasinagudda SF
Block No - XXV
Comp No - 1,2,3
Extent of Compartment -

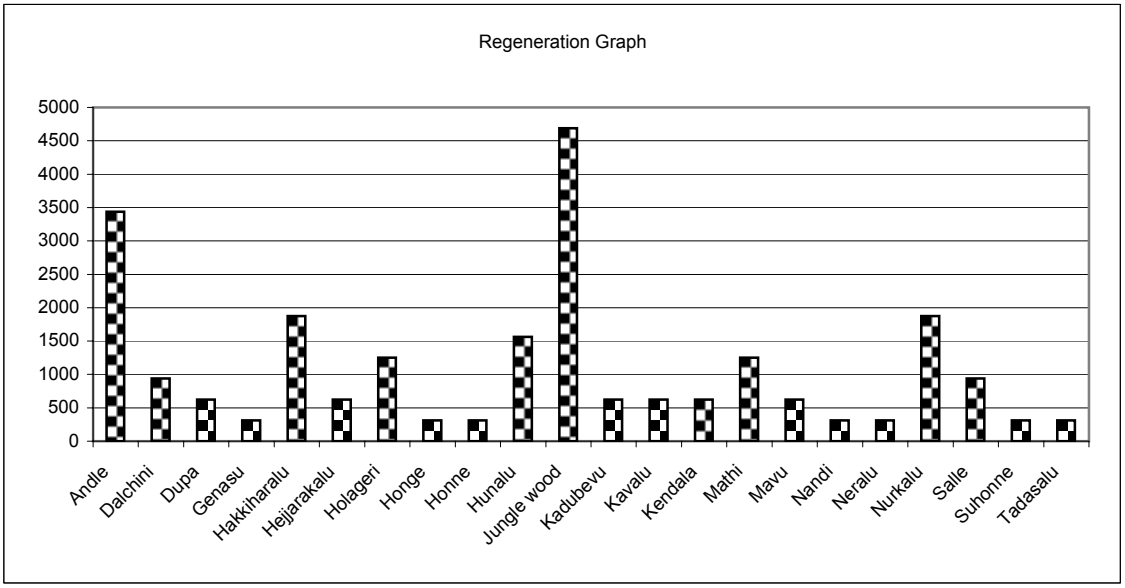
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Amte	1	625	
2	Balgane	1	625	
3	Baranige	1	625	
4	Basavanapada	1	625	
5	Bhogi	1	625	
6	Char	2	1250	
7	Chitte	1	625	
8	Dalchini	2	1250	
9	Dhupa	1	625	
10	Goddamte	1	625	
11	Hebbalasu	1	625	
12	Holegara	1	625	
13	Honge	1	625	
14	Hulchappu	1	625	
15	Hyga	4	2500	
16	Jungle wood	3	1875	
17	Karimara	1	625	
18	Kavala	1	625	
19	Kendale	8	5000	
20	madle	4	2500	
21	Mase	1	625	
22	Mavu	1	625	
23	Nandi	2	1250	
24	Nelli	1	625	
25	Nerale	2	1250	
26	Nurkal	1	625	
27	Ranja	1	625	
28	Salle	4	2500	
29	Shivane	1	625	
30	Tadasalu	2	1250	
31	Thare	2	1250	
32	Thdasalu	1	625	
33	Uppukare	1	625	
34	Vate	1	625	
		58	**36250**	


Regeneration Graph
6000
5000
4000
3000
2000
1000
0
Amte
Baranige
Bhogi
Chitte
Dhupa
Hebbalasu
Honge
Hyga
Karimara
Kendale
Mase
Nandi
Nerale
Ranja
Shivane
Thare
Uppukare

Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Sagar
Name of the Forest - Iduvani SF
Block No - XVII
Comp No - 1,2,3
Extent of Compartment -

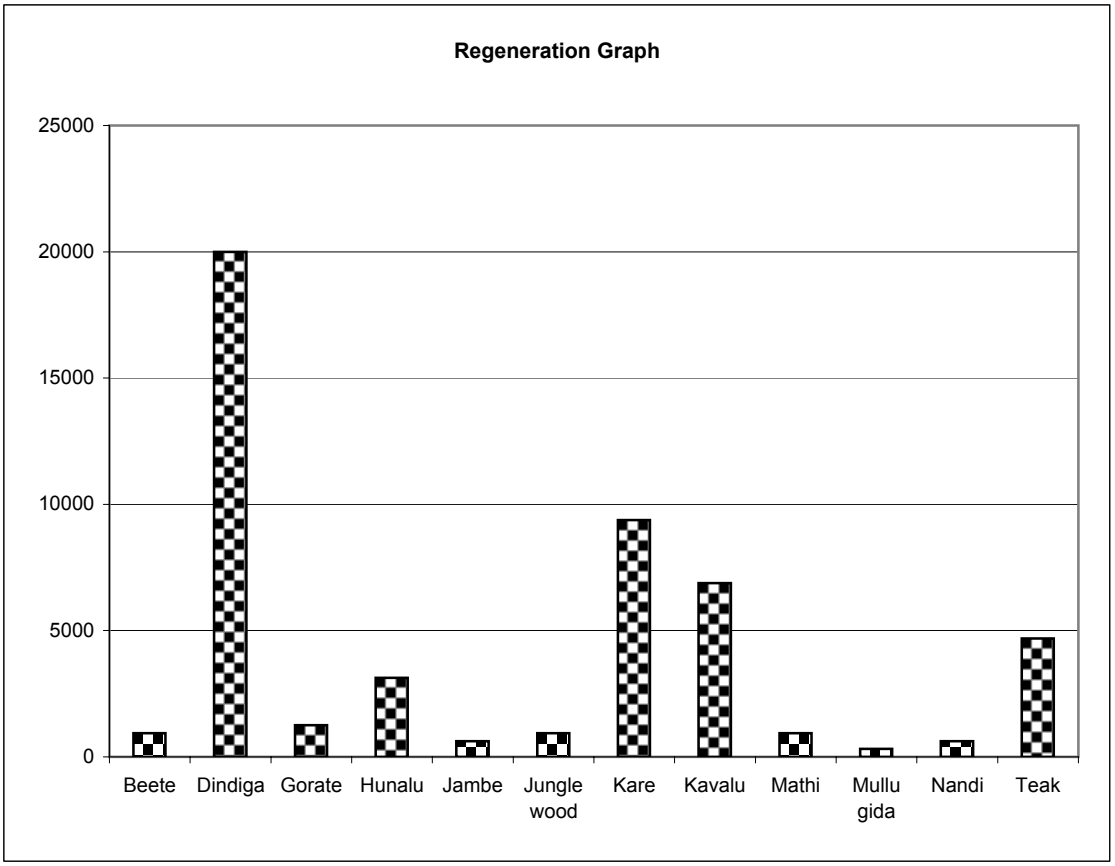
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Andle	6	3438	
2	Dalchini	2	938	
3	Dupa	1	625	
4	Genasu	1	313	
5	Hakkiharalu	3	1875	
6	Hejjarakalu	1	625	
7	Holageri	2	1250	
8	Honge	1	313	
9	Honne	1	313	
10	Hunalu	3	1563	
11	Jungle wood	8	4688	
12	Kadubevu	1	625	
13	Kavalu	1	625	
14	Kendala	1	625	
15	Mathi	2	1250	
16	Mavu	1	625	
17	Nandi	1	313	
18	Neralu	1	313	
19	Nurkalu	3	1875	
20	Salle	2	938	
21	Suhonne	1	313	
22	Tadasalu	1	313	
		38	**23750**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Shikaripura
Name of the Forest - Gangavanasara SF
Block No - X
Comp No - 2,3,4,5,8,10,12,13,14,15,16,17,18
Extent of Compartment -

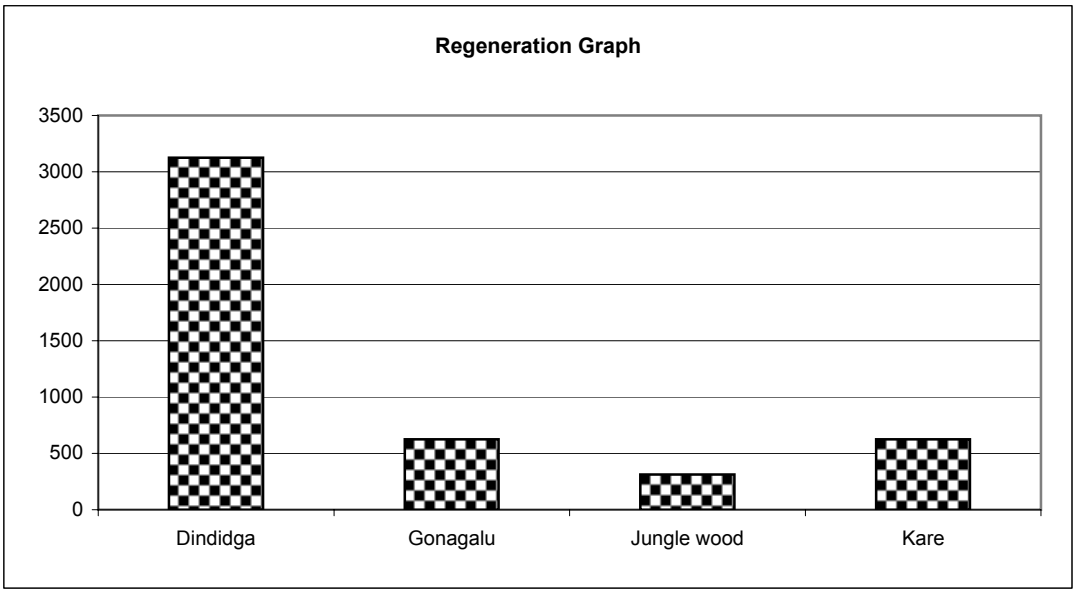
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Beete	2	938	
2	Dindiga	32	20000	
3	Gorate	2	1250	
4	Hunalu	5	3125	
5	Jambe	1	625	
6	Jungle wood	2	938	
7	Kare	15	9375	
8	Kavalu	11	6875	
9	Mathi	2	938	
10	Mullu gida	1	313	
11	Nandi	1	625	
12	Teak	8	4688	
		80	**49688**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Shikaripura
Name of the Forest - Markande SF
Block No - IX
Comp No - 15,16
Extent of Compartment -

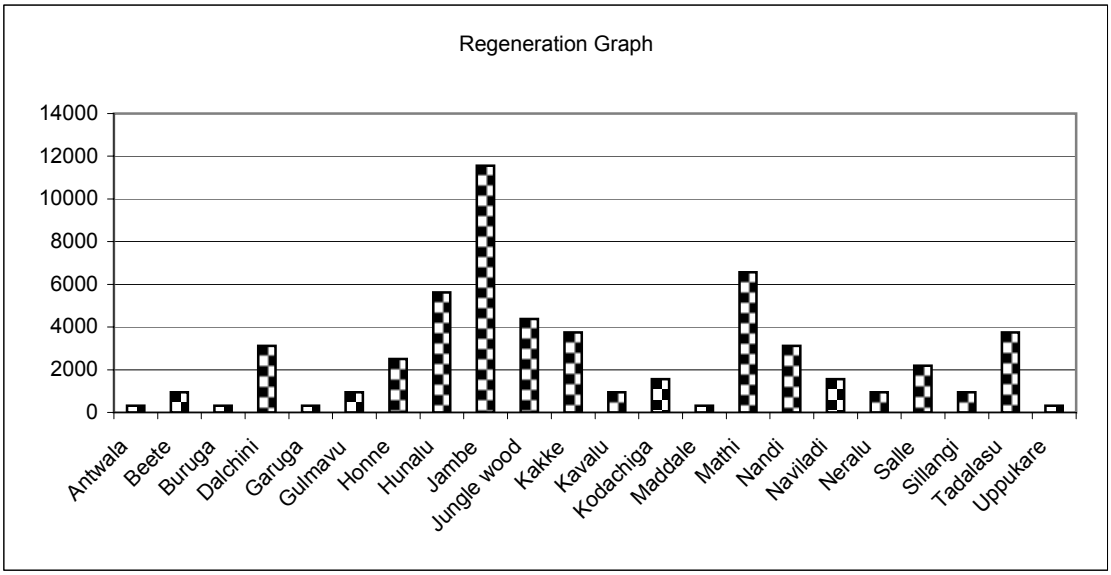
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Dindidga	5	3125	
2	Gonagalu	1	625	
3	Jungle wood	1	313	
4	Kare	1	625	
		8	**4688**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Shiralkoppa
Name of the Forest - Shigga SF
Block No - VII
Comp No - 12,13,14
Extent of Compartment -

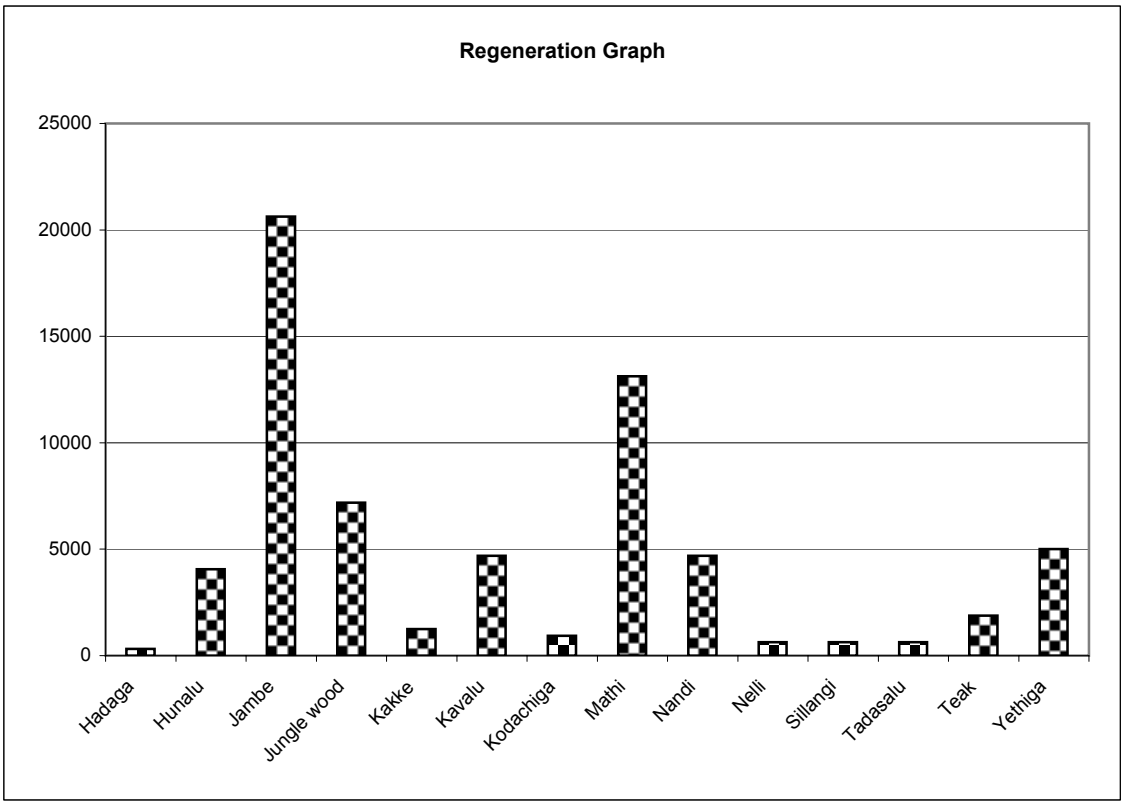
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Antwala	1	313	
2	Beete	2	938	
3	Buruga	1	313	
4	Dalchini	5	3125	
5	Garuga	1	313	
6	Gulmavu	2	938	
7	Honne	4	2500	
8	Hunalu	9	5625	
9	Jambe	19	11563	
10	Jungle wood	7	4375	
11	Kakke	6	3750	
12	Kavalu	2	938	
13	Kodachiga	3	1563	
14	Maddale	1	313	
15	Mathi	11	6563	
16	Nandi	5	3125	
17	Naviladi	3	1563	
18	Neralu	2	938	
19	Salle	4	2188	
20	Sillangi	2	938	
21	Tadalasu	6	3750	
22	Uppukare	1	313	
		90	**55938**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Shiralkoppa
Name of the Forest - Syadlakoppa SF
Block No - VII
Comp No - 16,17,20
Extent of Compartment -

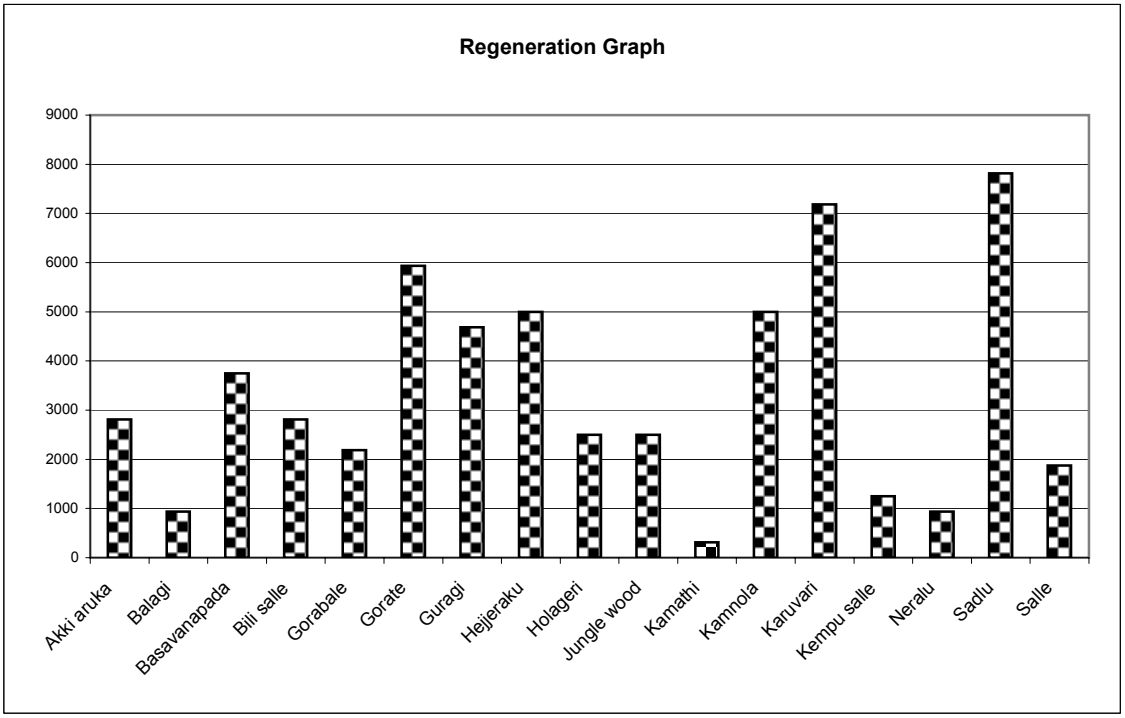
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Hadaga	1	313	
2	Hunalu	7	4063	
3	Jambe	33	20625	
4	Jungle wood	12	7188	
5	Kakke	2	1250	
6	Kavalu	8	4688	
7	Kodachiga	2	938	
8	Mathi	21	13125	
9	Nandi	8	4688	
10	Nelli	1	625	
11	Sillangi	1	625	
12	Tadasalu	1	625	
13	Teak	3	1875	
14	Yethiga	8	5000	
		105	**65625**	



Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Soraba
Name of the Forest - Avalgod SF
Block No - III
Comp No - 11,12
Extent of Compartment -

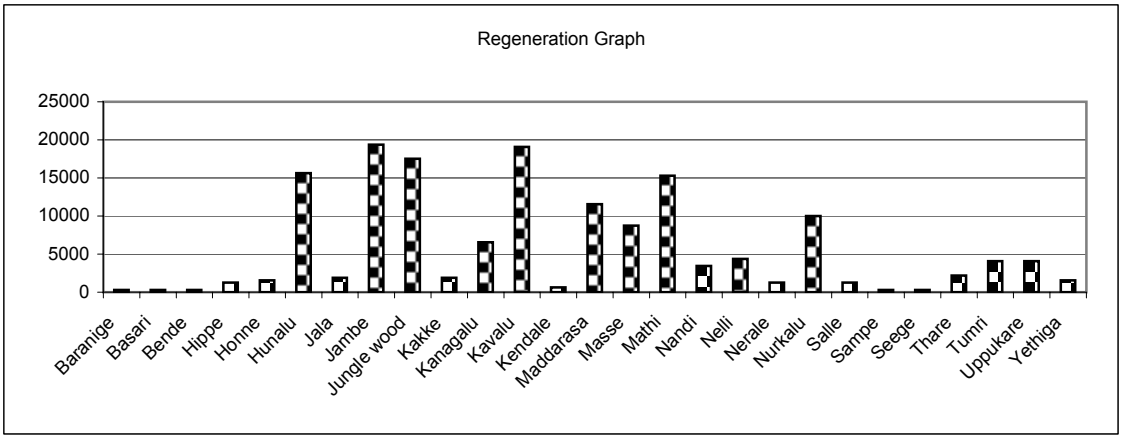
Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Akki aruka	5	2813	
2	Balagi	2	938	
3	Basavanapada	6	3750	
4	Bili salle	5	2813	
5	Gorabale	4	2188	
6	Gorate	10	5938	
7	Guragi	8	4688	
8	Hejjeraku	8	5000	
9	Holageri	4	2500	
10	Jungle wood	4	2500	
11	Kamathi	1	313	
12	Kamnola	8	5000	
13	Karuvari	12	7188	
14	Kempu salle	2	1250	
15	Neralu	2	938	
16	Sadlu	13	7813	
17	Salle	3	1875	
		92	**57500**	



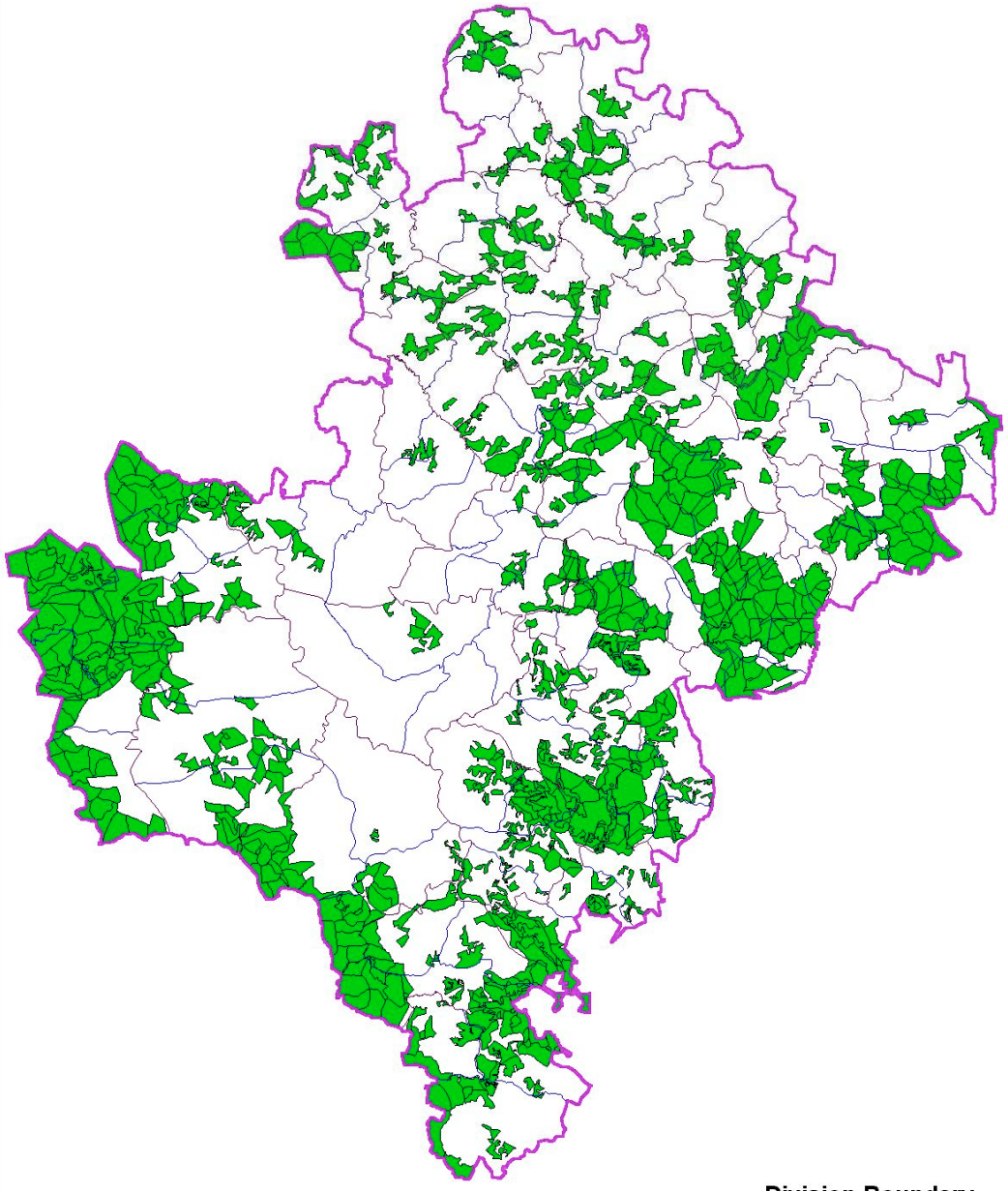
Compartment wise Regeneration Status of Sagar Division

Division - Sagar
Range - Soraba
Name of the Forest - Chandragutti SF
Block No - I
Comp No - 9,10,11,12,13,15,16,17
Extent of Compartment -

Sl No	Name of the Species	Average regeneration status of Sample plots	Regeneration status per Ha	Remarks
1	Baranige	1	313	
2	Basari	1	313	
3	Bende	1	313	
4	Hippe	2	1250	
5	Honne	3	1563	
6	Hunalu	25	15625	
7	Jala	3	1875	
8	Jambe	31	19375	
9	Jungle wood	28	17500	
10	Kakke	3	1875	
11	Kanagalu	11	6563	
12	Kavalu	31	19063	
13	Kendale	1	625	
14	Maddarasa	19	11563	
15	Masse	14	8750	
16	Mathi	25	15313	
17	Nandi	6	3438	
18	Nelli	7	4375	
19	Nerale	2	1250	
20	Nurkalu	16	10000	
21	Salle	2	1250	
22	Sampe	1	313	
23	Seege	1	313	
24	Thare	4	2188	
25	Tumri	7	4063	
26	Uppukare	7	4063	
27	Yethiga	3	1563	
		248	**154688**	



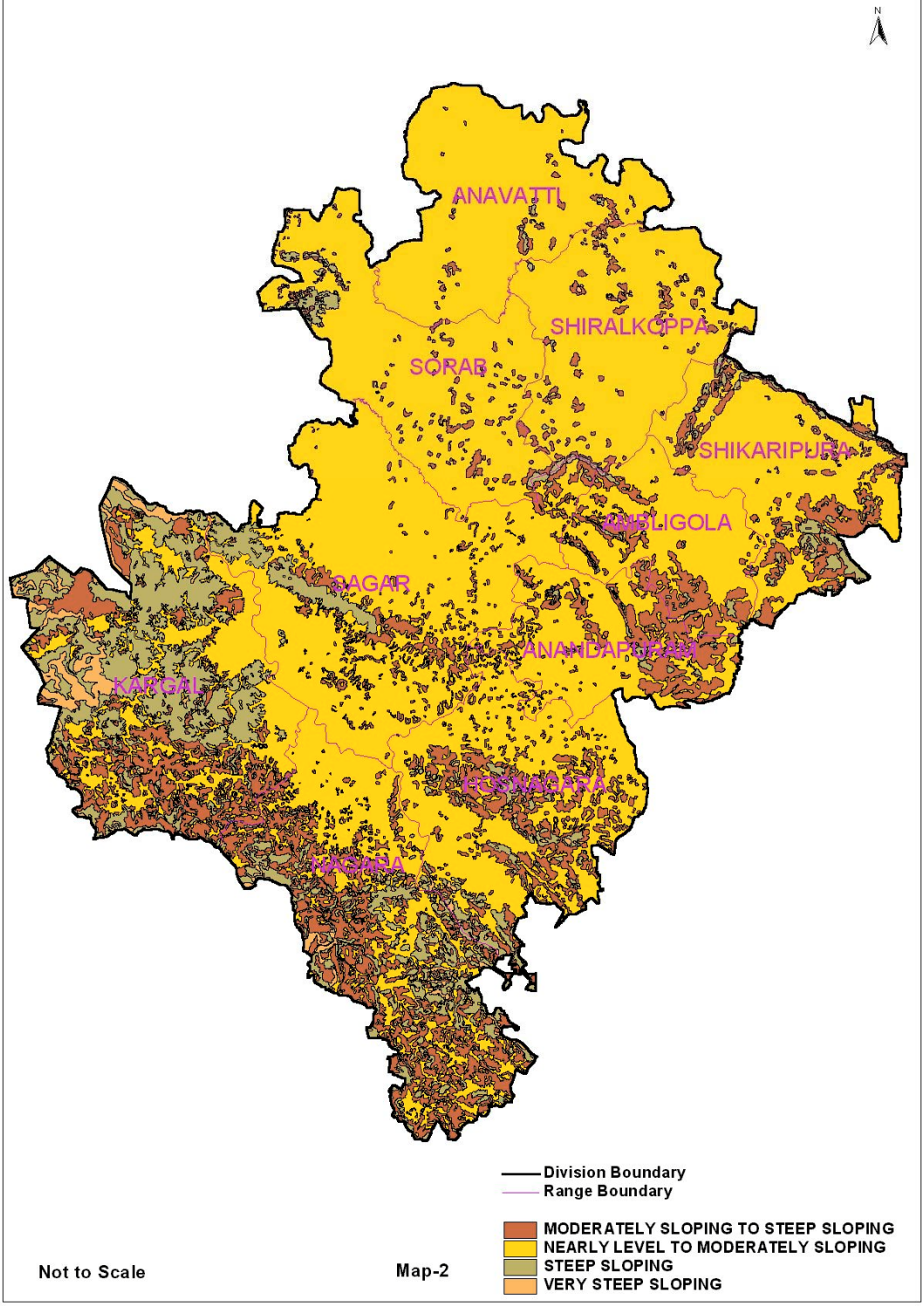
Map Showing Section, Beat and jurisdictional of Sagar Forest Division



Not to Scale

Map-1

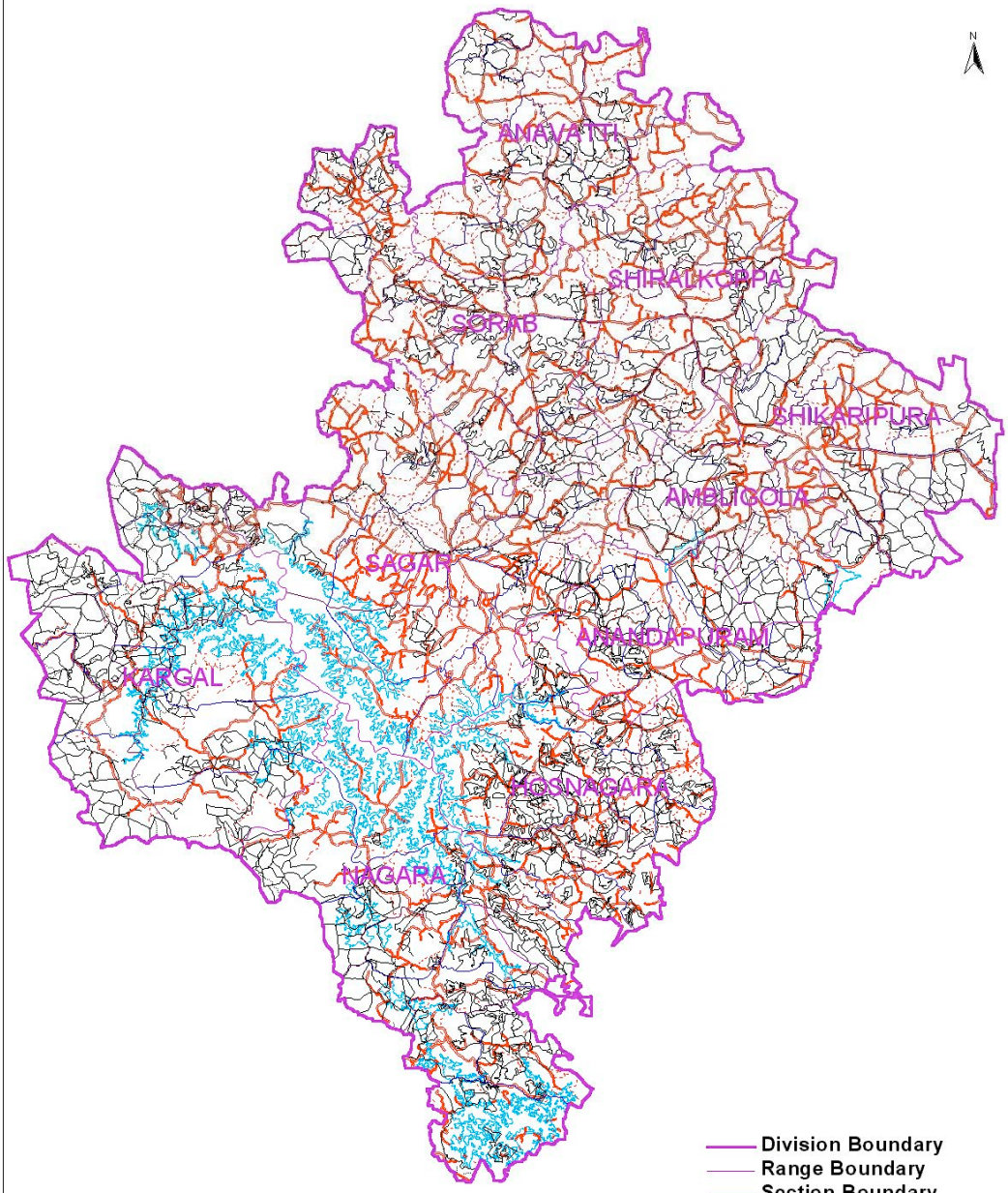
Map Showing varying slopes encountered in the division



Not to Scale

Map-2

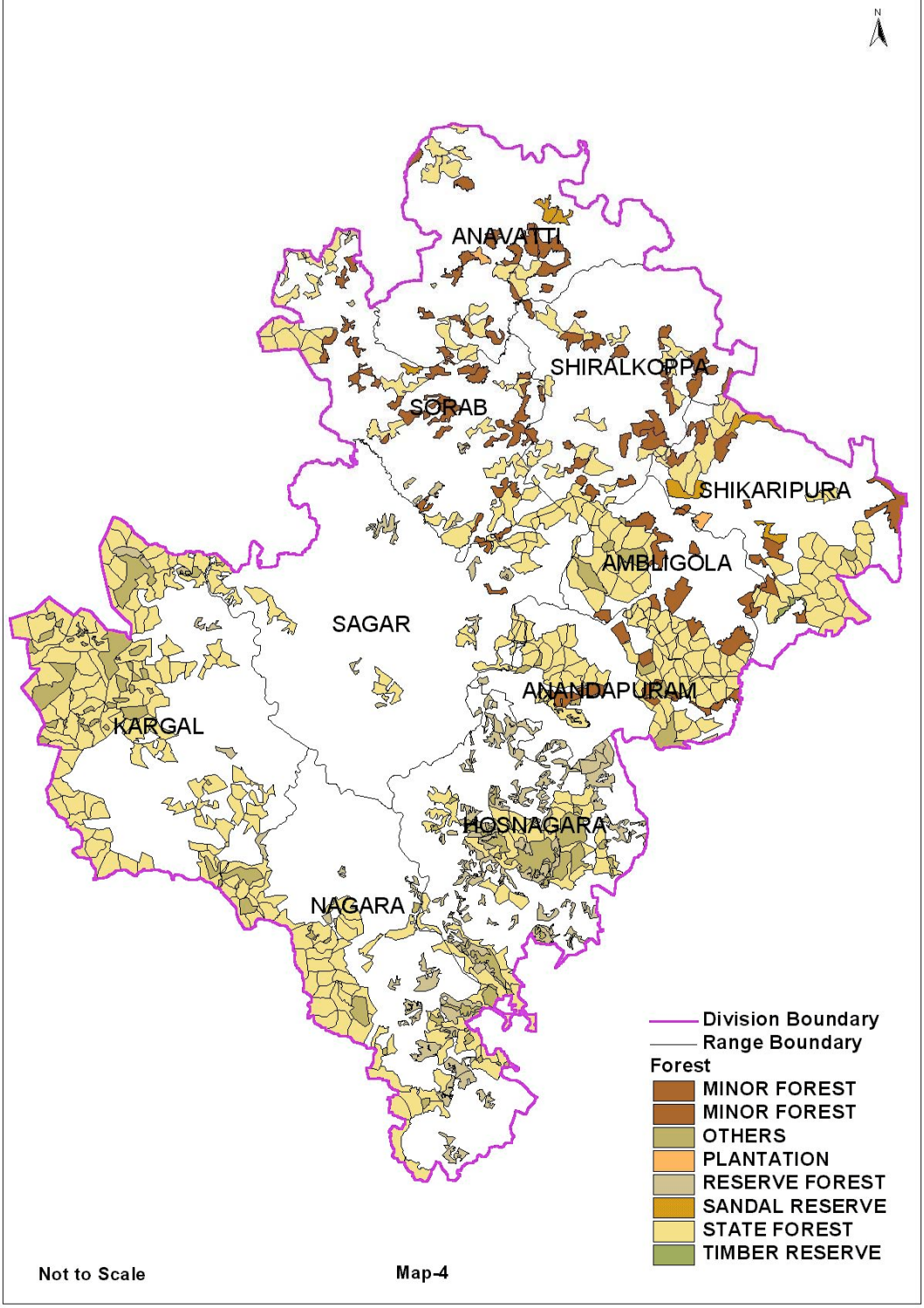
Map Showing Section, Beat and jurisdictional forest with road network



Not to Scale

Map-3

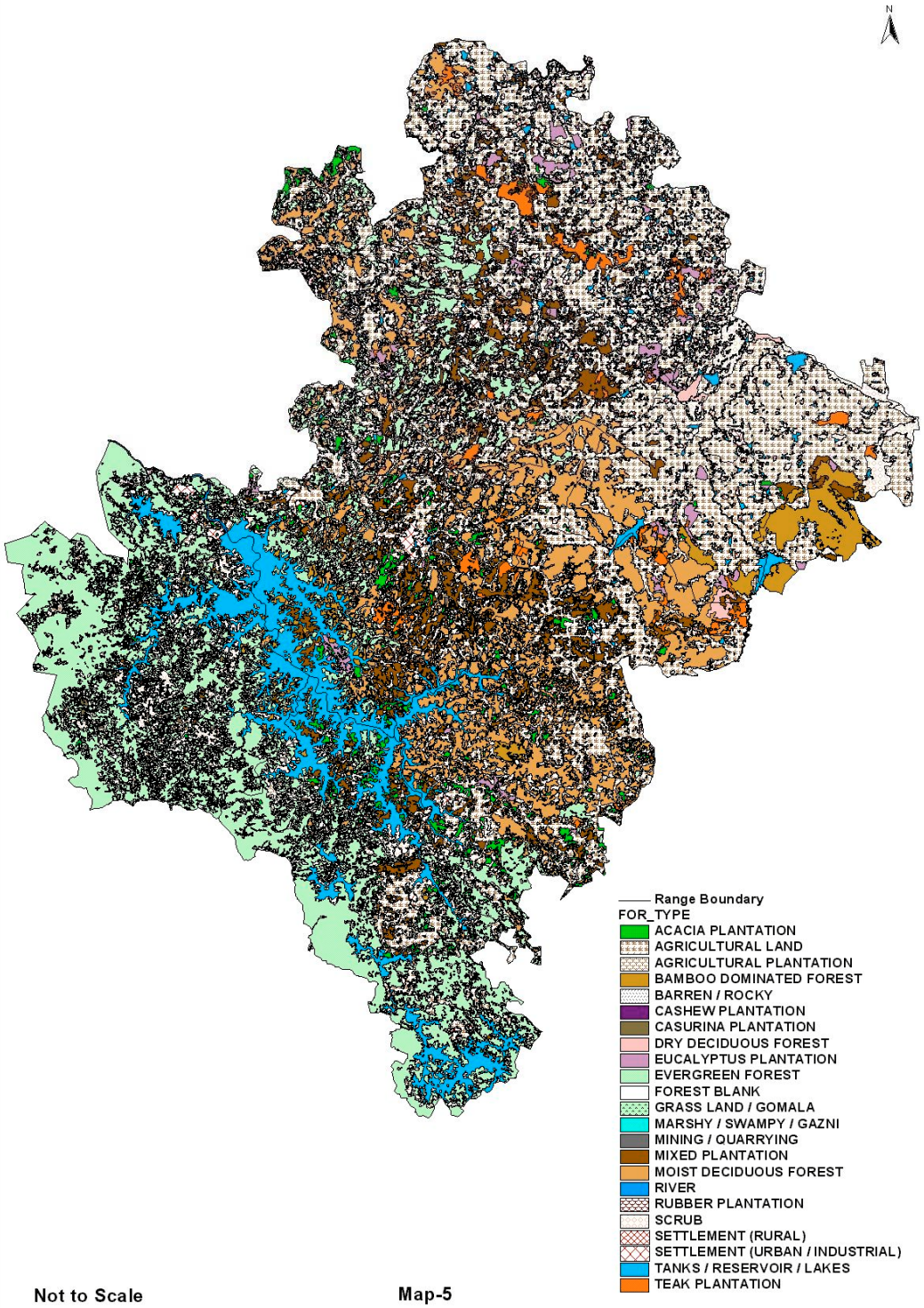
Map Showing types of forests in the division



Not to Scale

Map-4

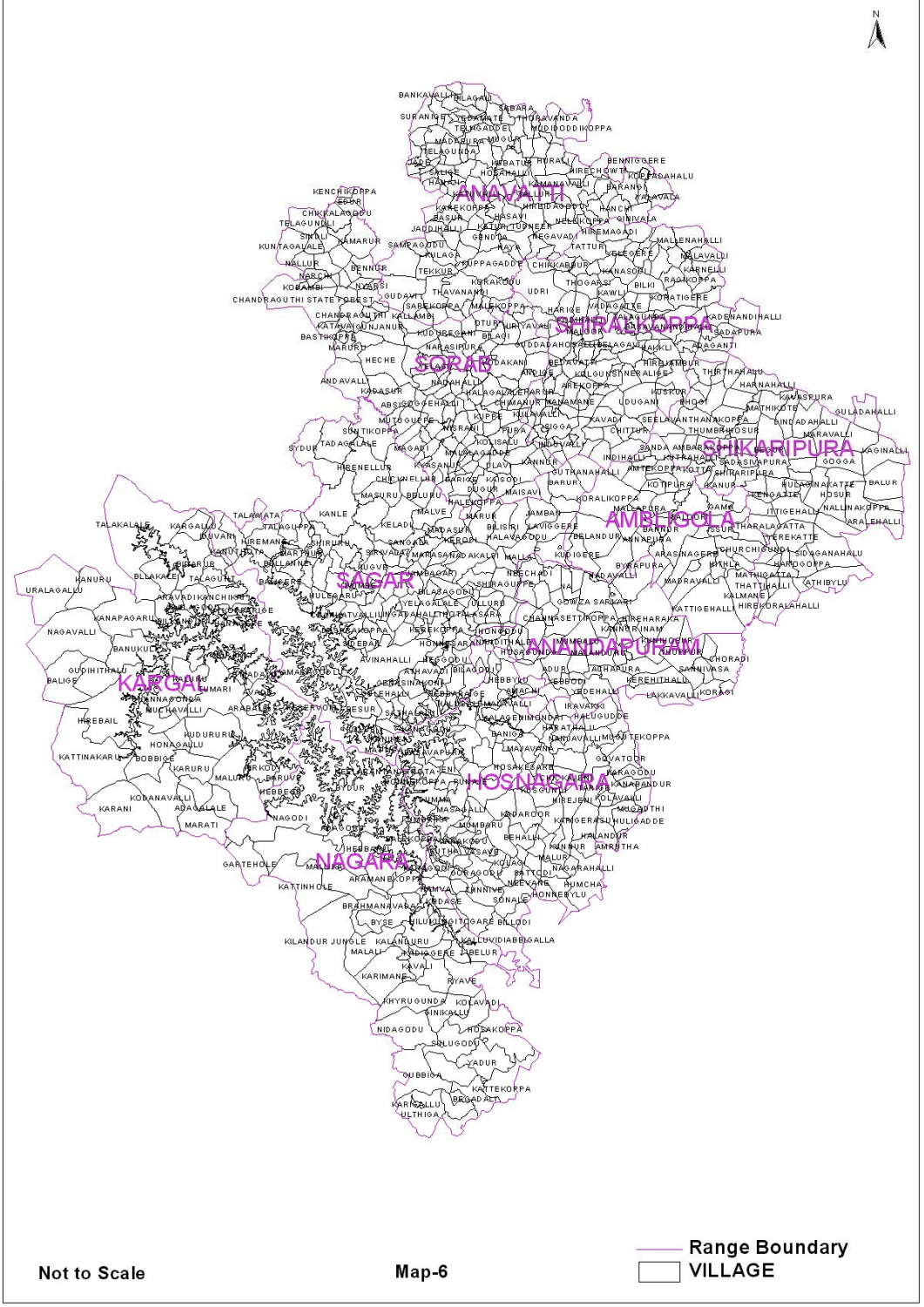
Map Showing the details of Plantations



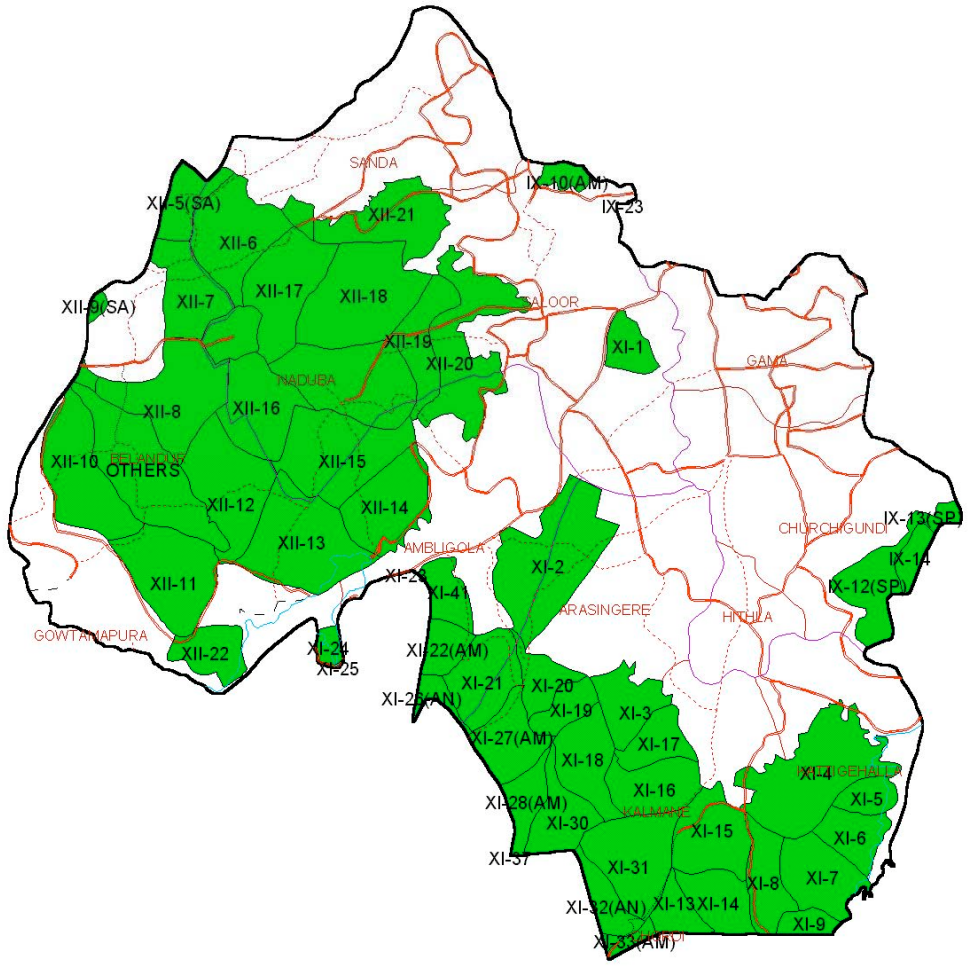
Not to Scale

Map-5

Map showing the villages in the division



Forest details of Ambligola Range

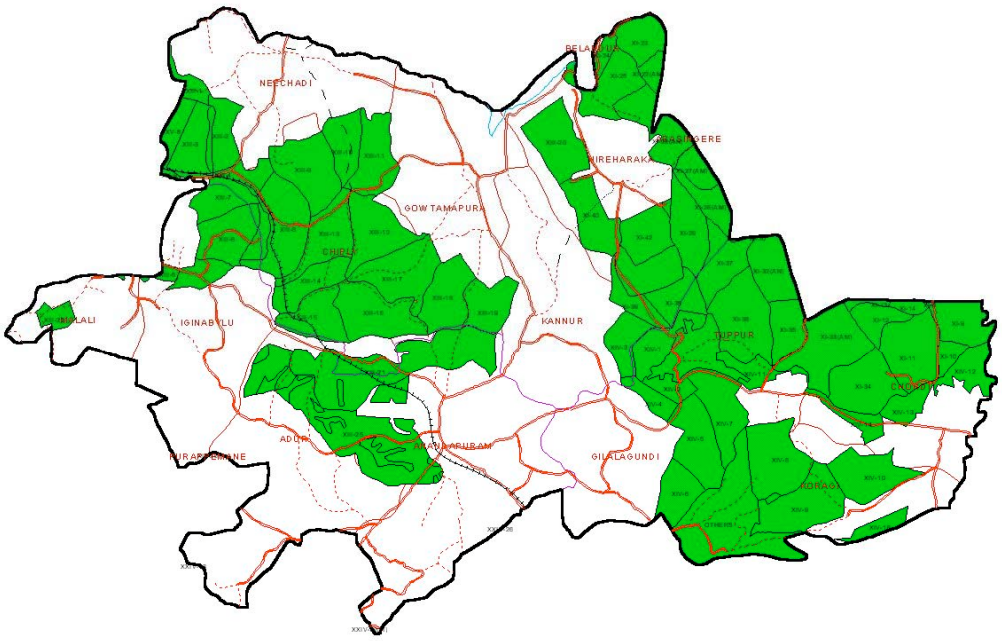


CART TRACK
FOOT PATH
METALLED ROAD
PACK TRACK
RAILWAY LINE
UNMETALLED ROAD
RESERVOIR
Range
Section
Forest
Beat

Not to Scale

Map-7

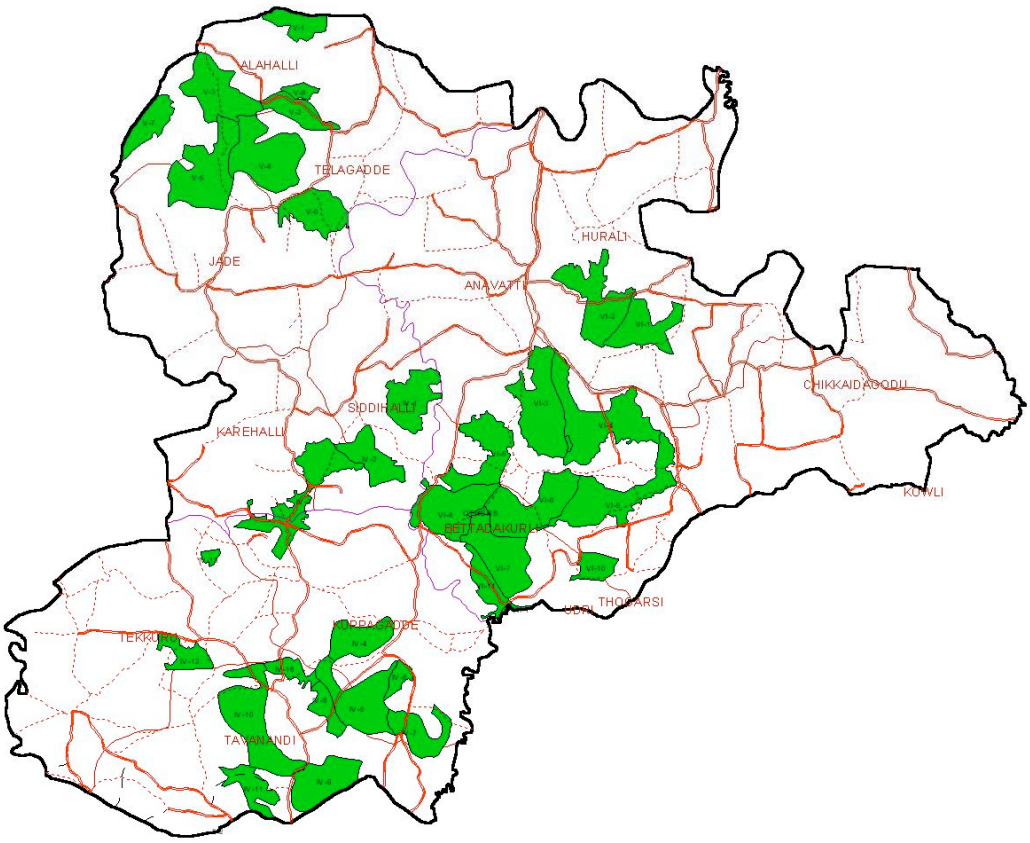
Forest details of Anandapuram Range



Not to Scale

Map-8

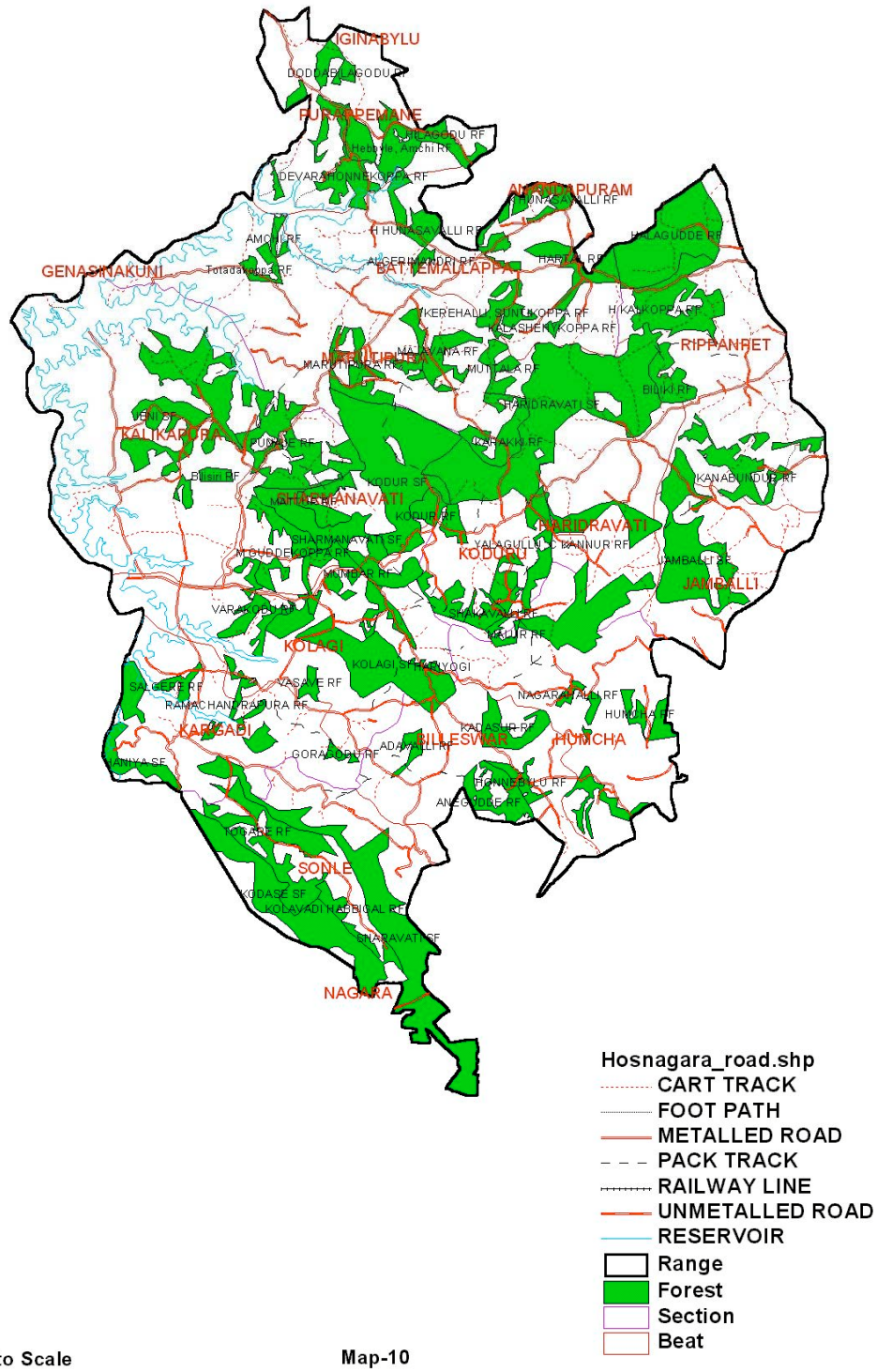
Forest details of Anavatti Range



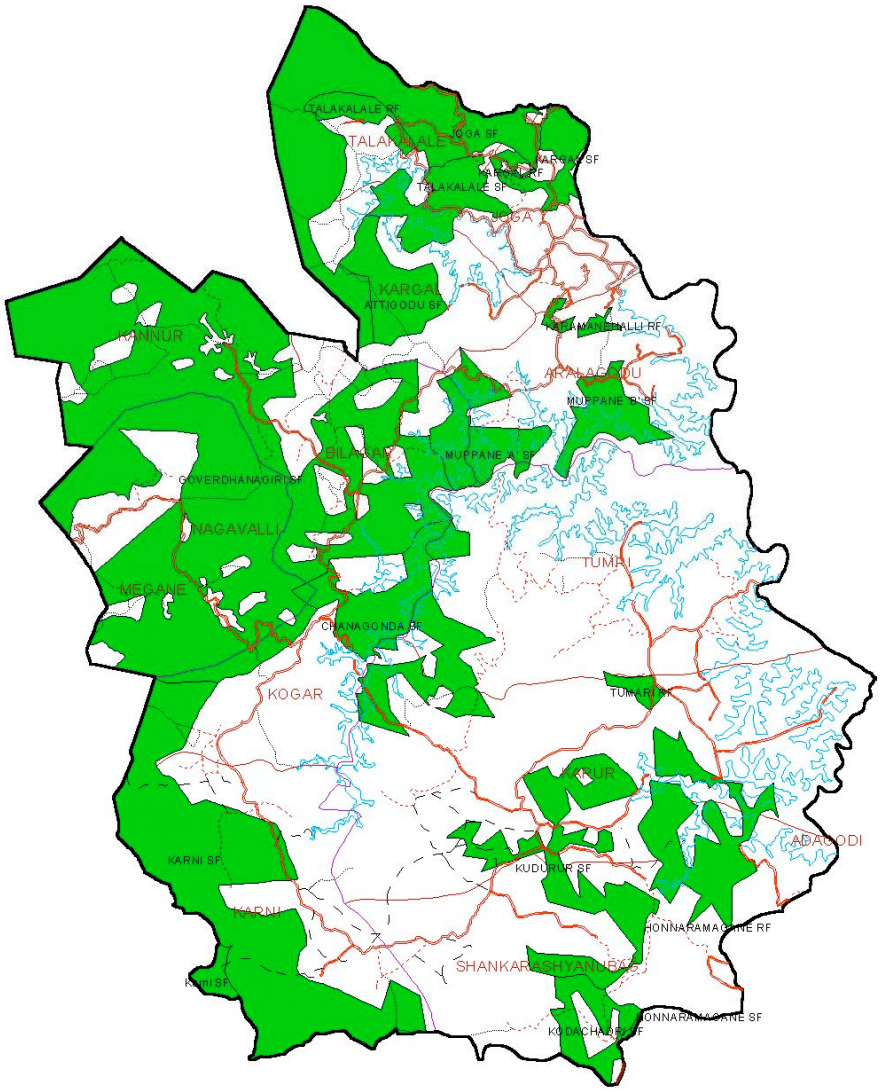
Not to Scale

Map-9

Forest details of Hosnagara Range



Forest details of Kargal Range

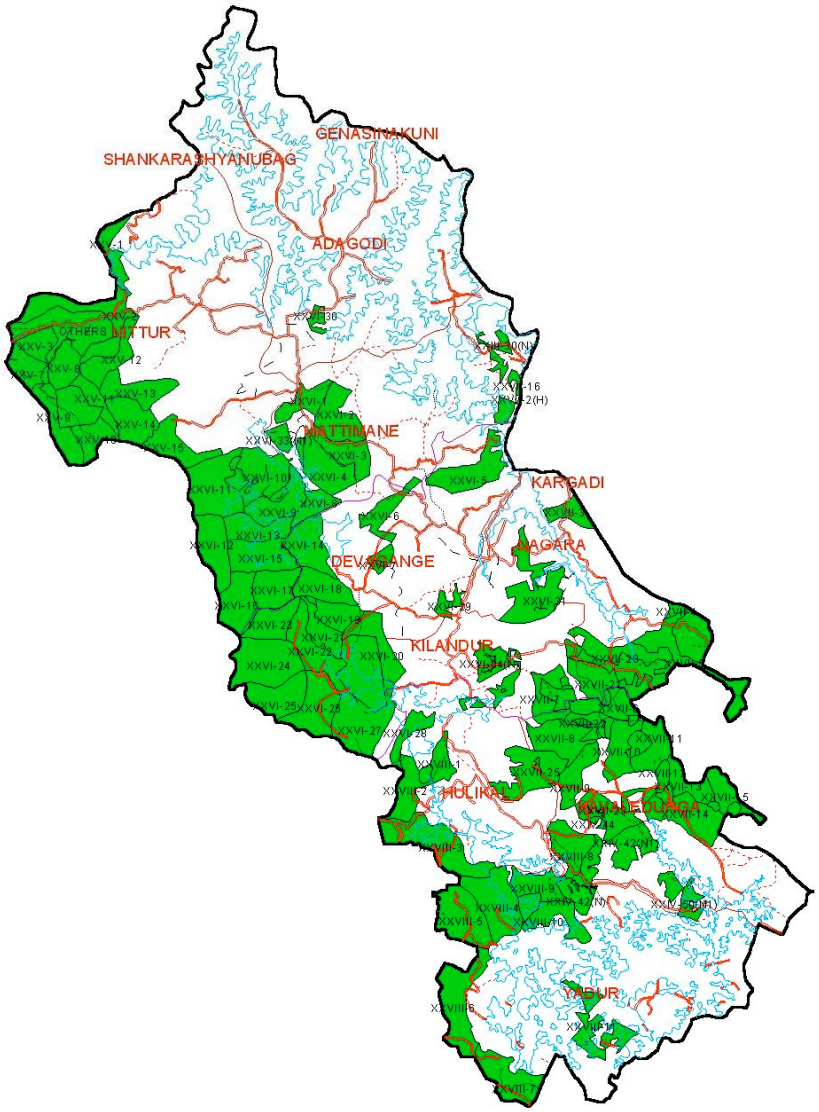


Kargal_road.shp
- CART TRACK
- FOOT PATH
- METALLED ROAD
- PACK TRACK
- RAILWAY LINE
- UNMETALLED ROAD
- RESERVOIR
- Range
- Section
- Forest
- Beat

Not to Scale

Map-11

Forest details of Nagara Range

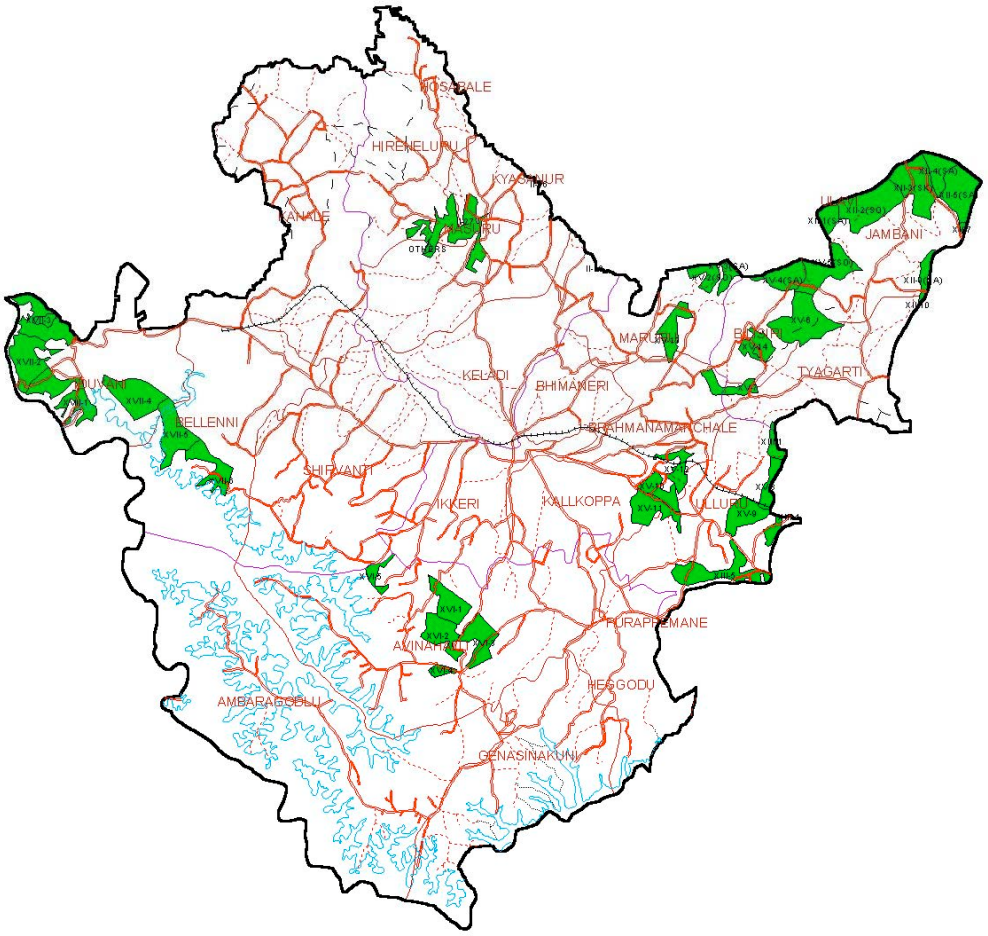


CART TRACK
FOOT PATH
METALLED ROAD
PACK TRACK
RAILWAY LINE
UNMETALLED ROAD
RESERVOIR
Range
Section
Nagara_forest.shp
Beat

Not to Scale

Map-12

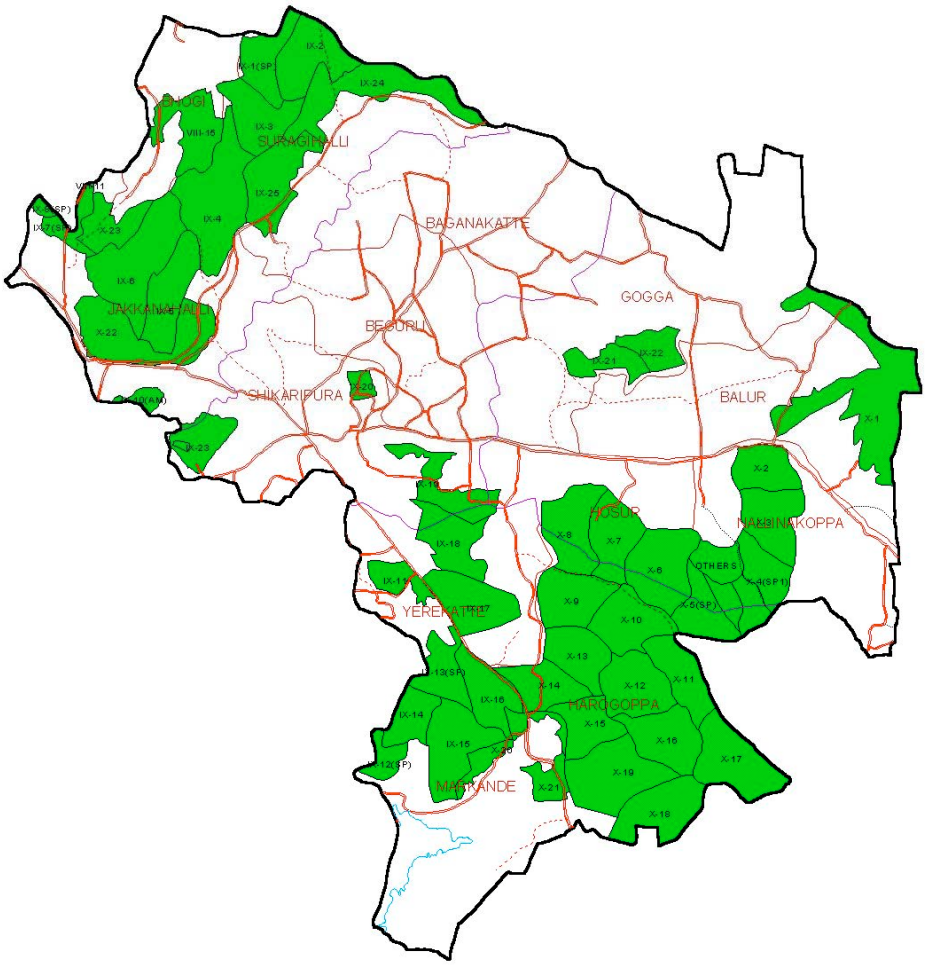
Forest details of Sagar Range



Not to Scale

Map-13

Forest details of Shikaripura Range

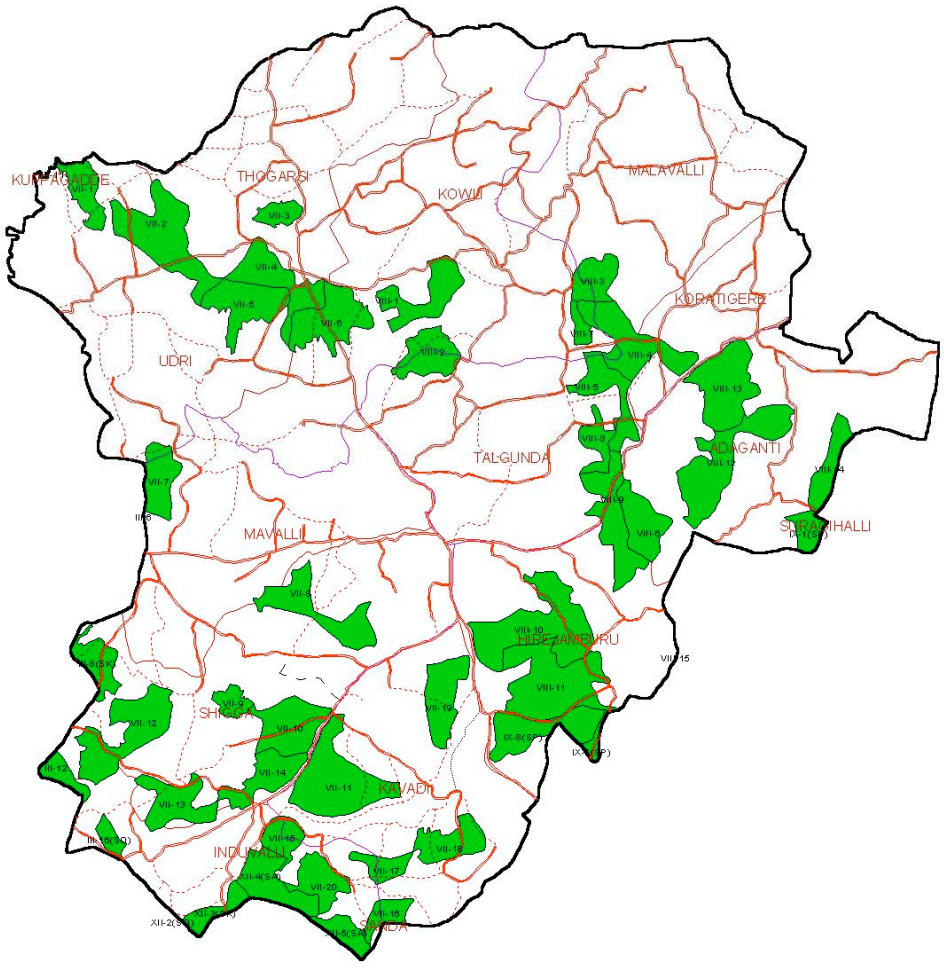


CART TRACK
FOOT PATH
METALLED ROAD
PACK TRACK
RAILWAY LINE
UNMETALLED ROAD
RESERVOIR
Range
Section
Forest
Beat

Not to Scale

Map-14

Forest details of Shiralkoppa Range

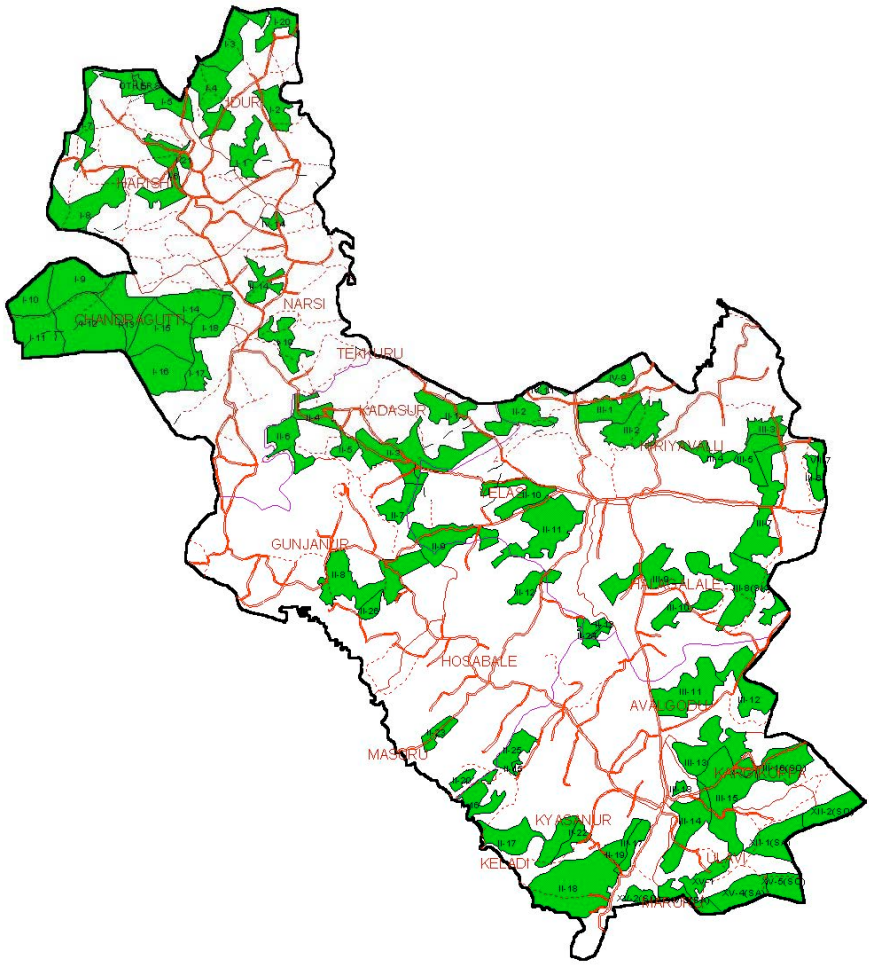


CART TRACK
FOOT PATH
METALLED ROAD
PACK TRACK
RAILWAY LINE
UNMETALLED ROAD
RESERVOIR
Range
Section
Forest
Beat

Not to Scale

Map-15

Forest details of Sorba Range

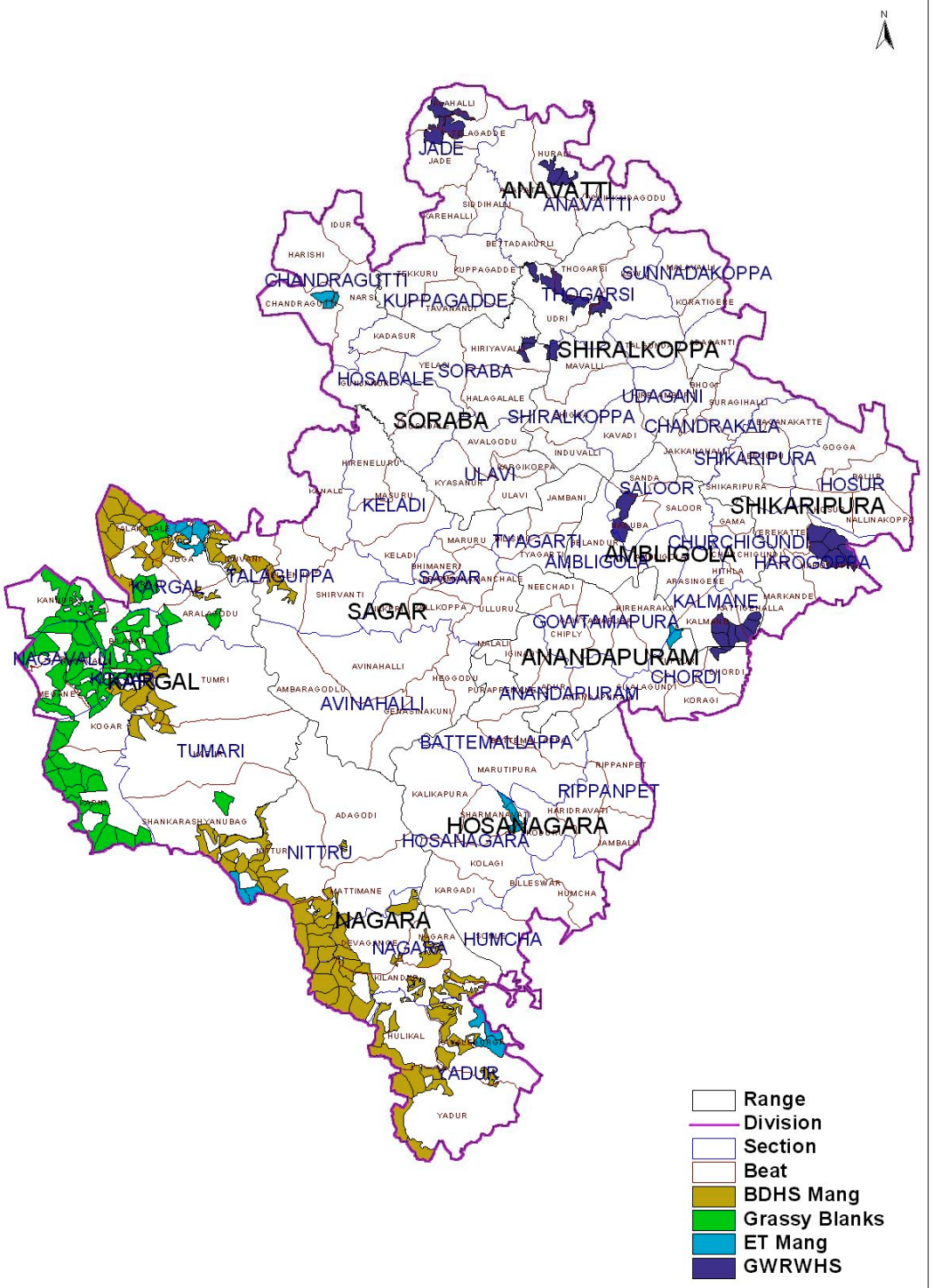


CART TRACK
FOOT PATH
METALLED ROAD
PACK TRACK
RAILWAY LINE
UNMETALLED ROAD
RESERVOIR
Range
Section
Forest
Beat

Not to Scale

Map-16

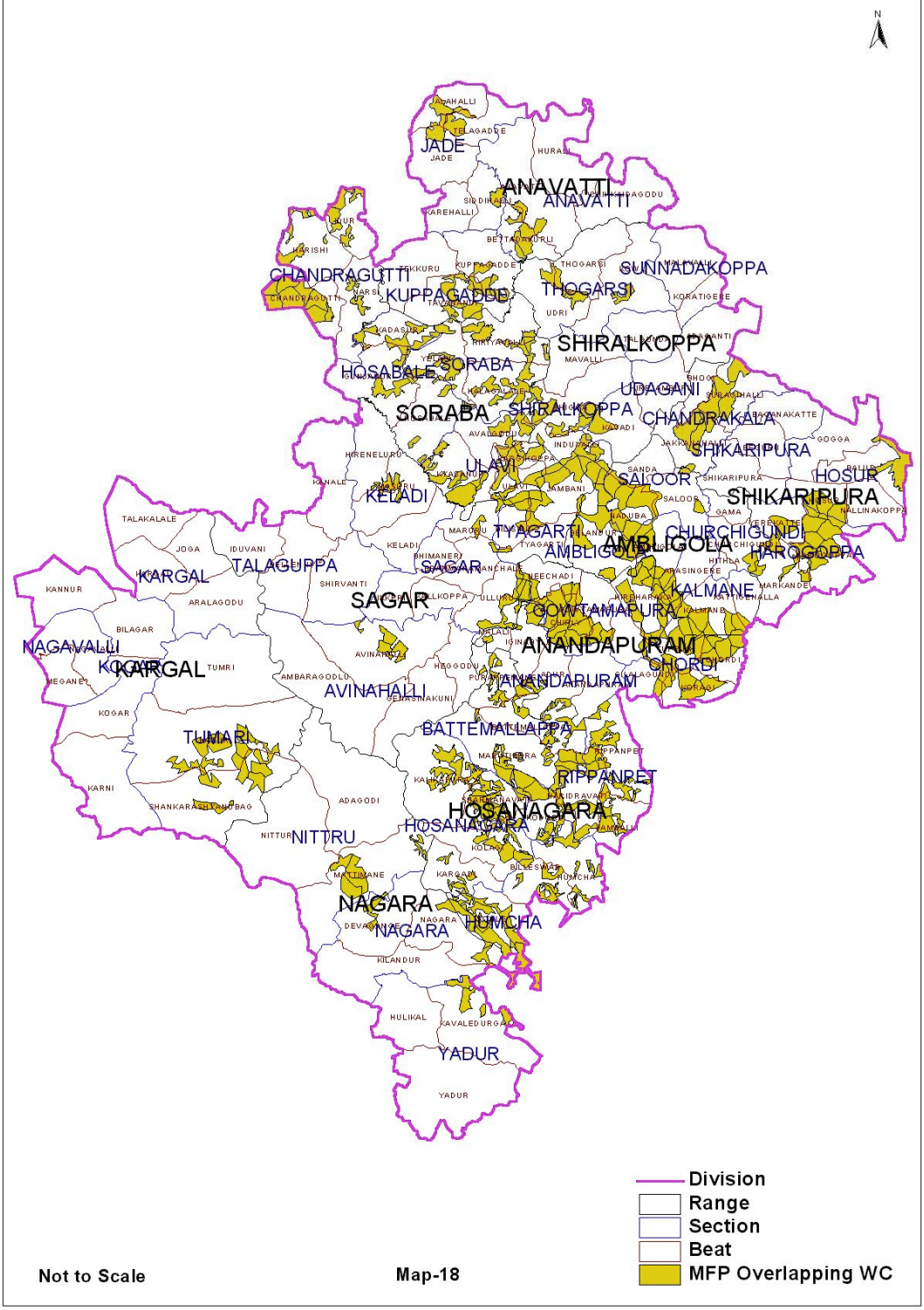
Bio-diversity Conservation working circle



Not to Scale

Map-17

Map showing different compartments alloted to MFP overlapping working circle



Not to Scale

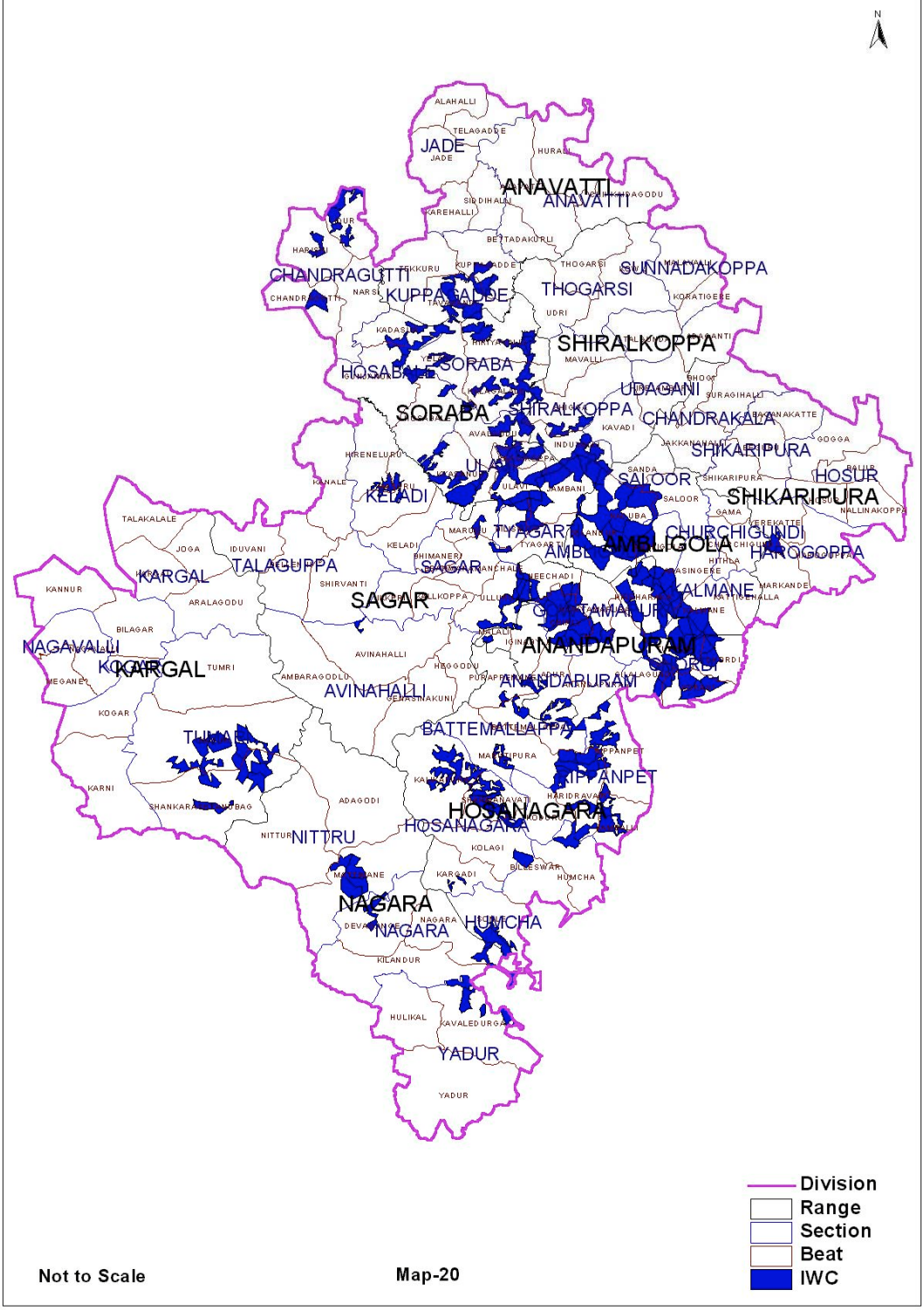
Map-18

Map showing different compartments alloted to RDF WC

Not to Scale

Map-19

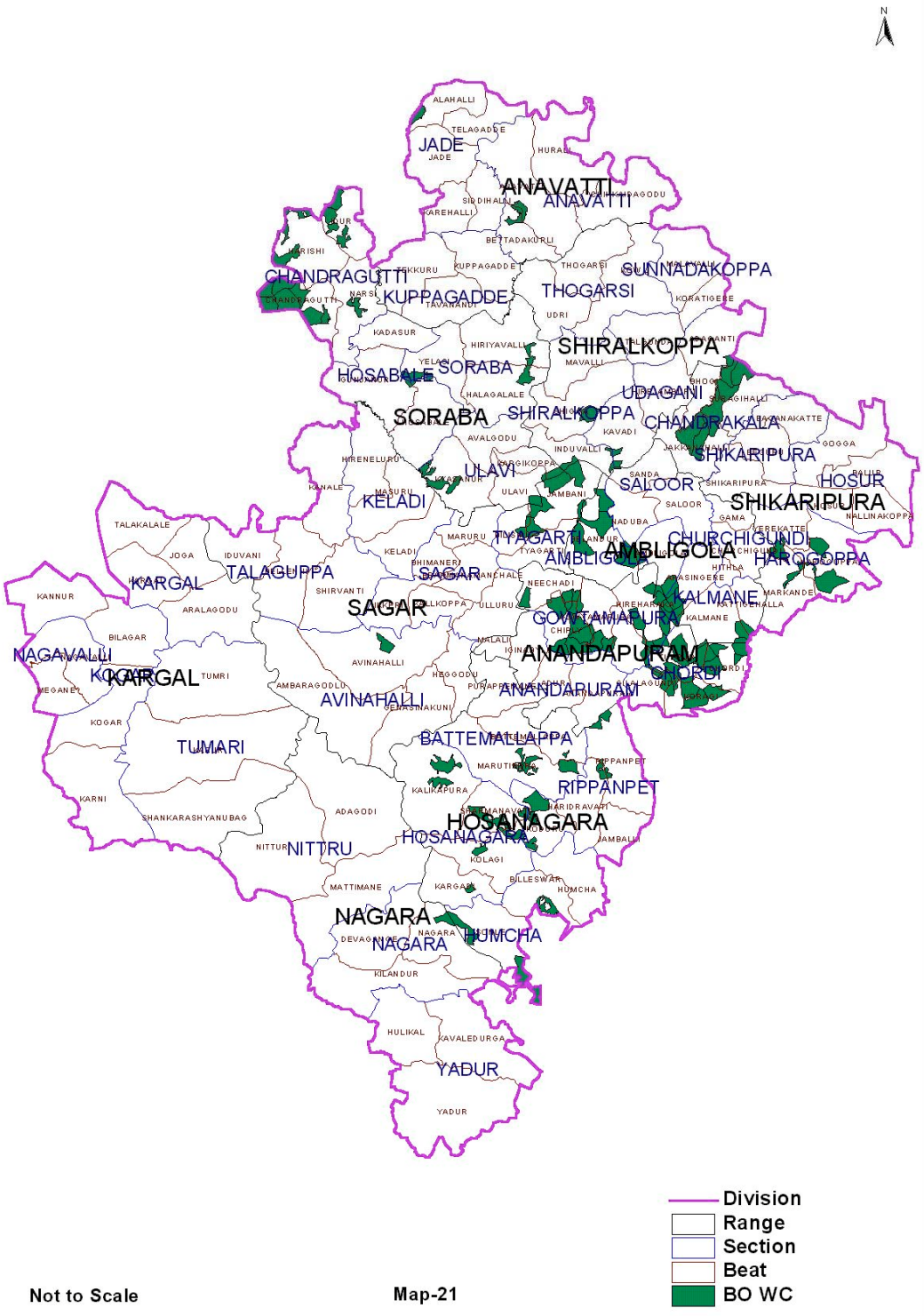
Map showing different compartments alloted to Improvement WC



Not to Scale

Map-20

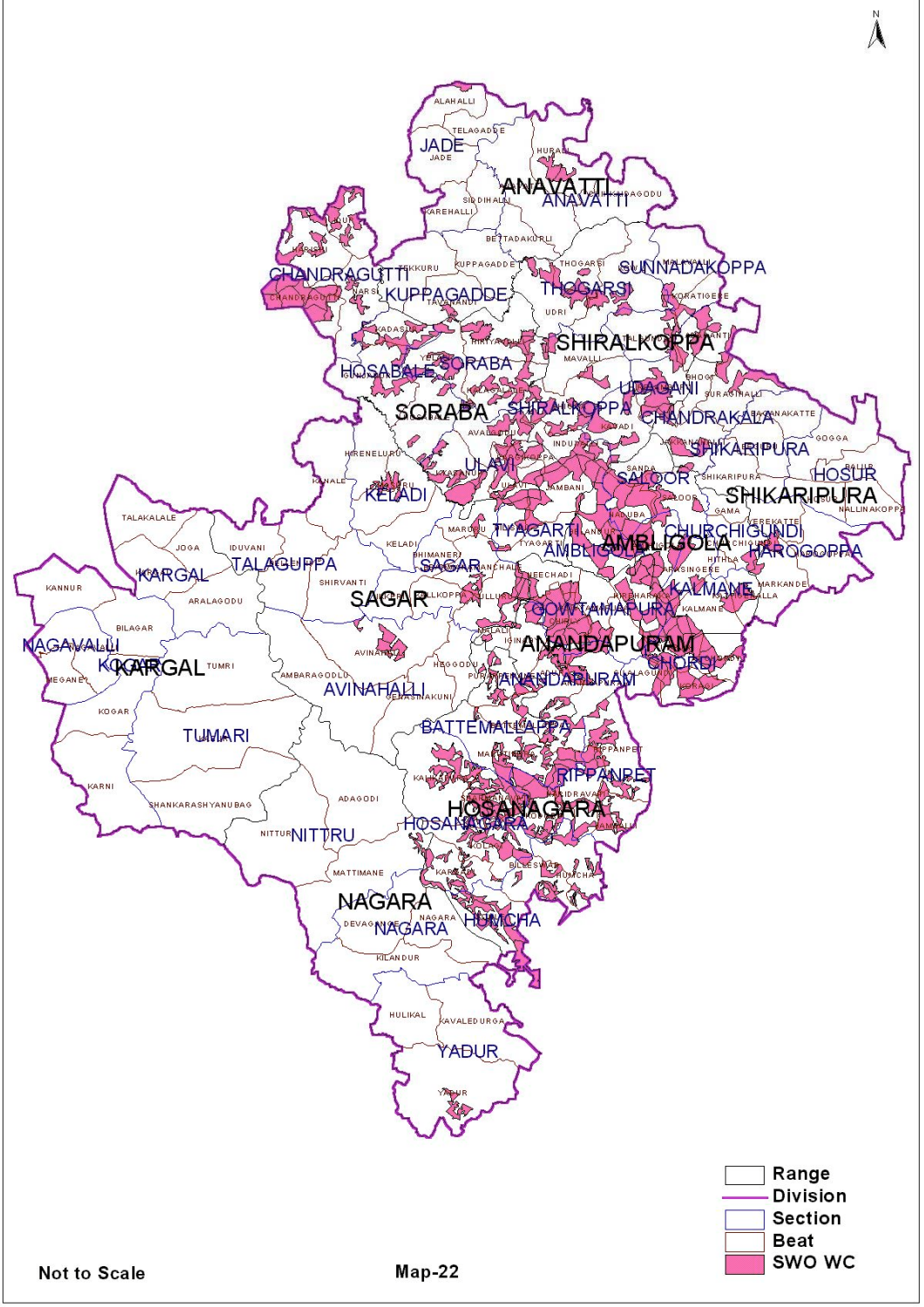
Map showing different compartments alloted to BO WC



Not to Scale

Map-21

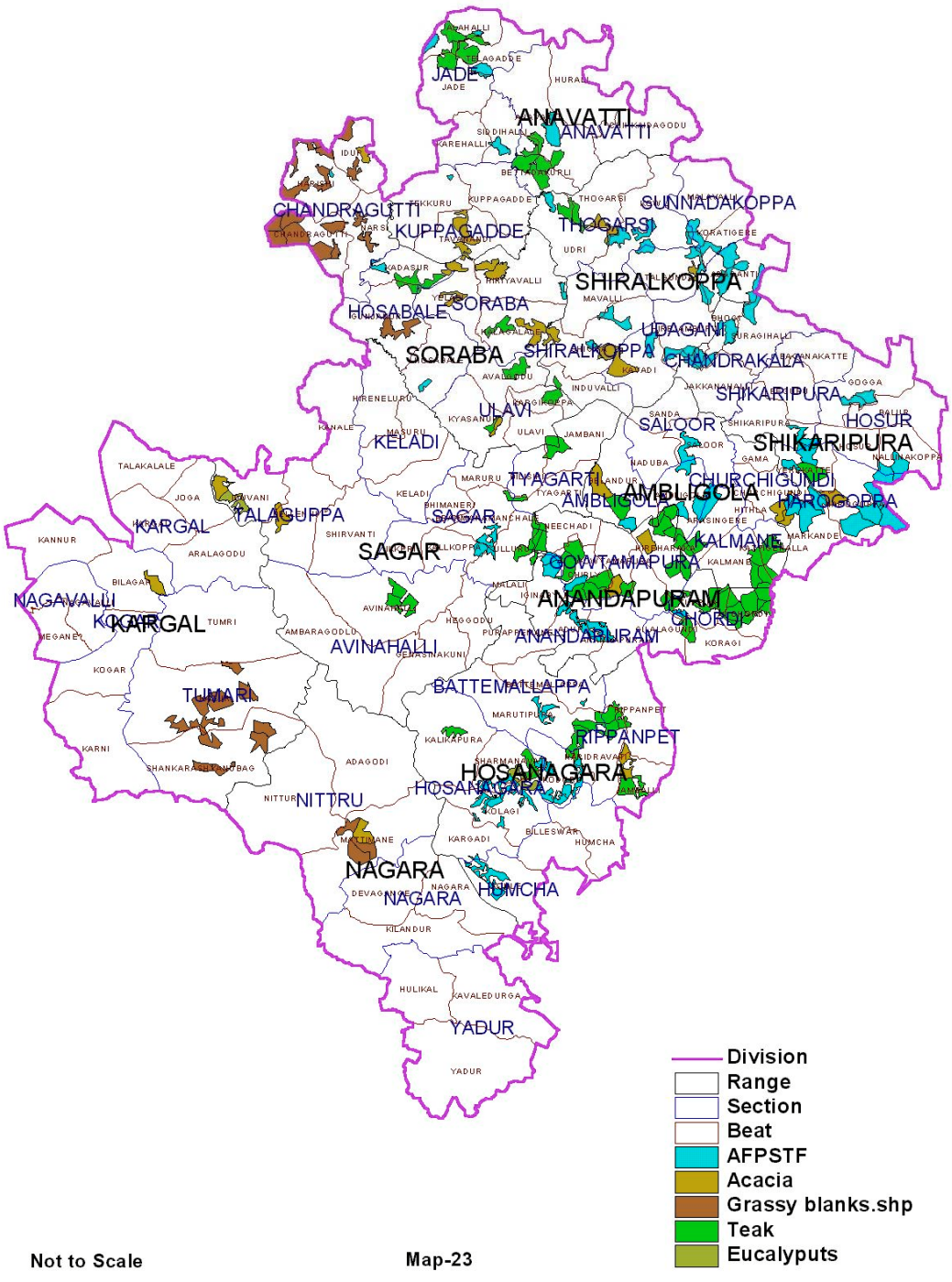
Map showing different compartments alloted to SWO WC



Not to Scale

Map-22

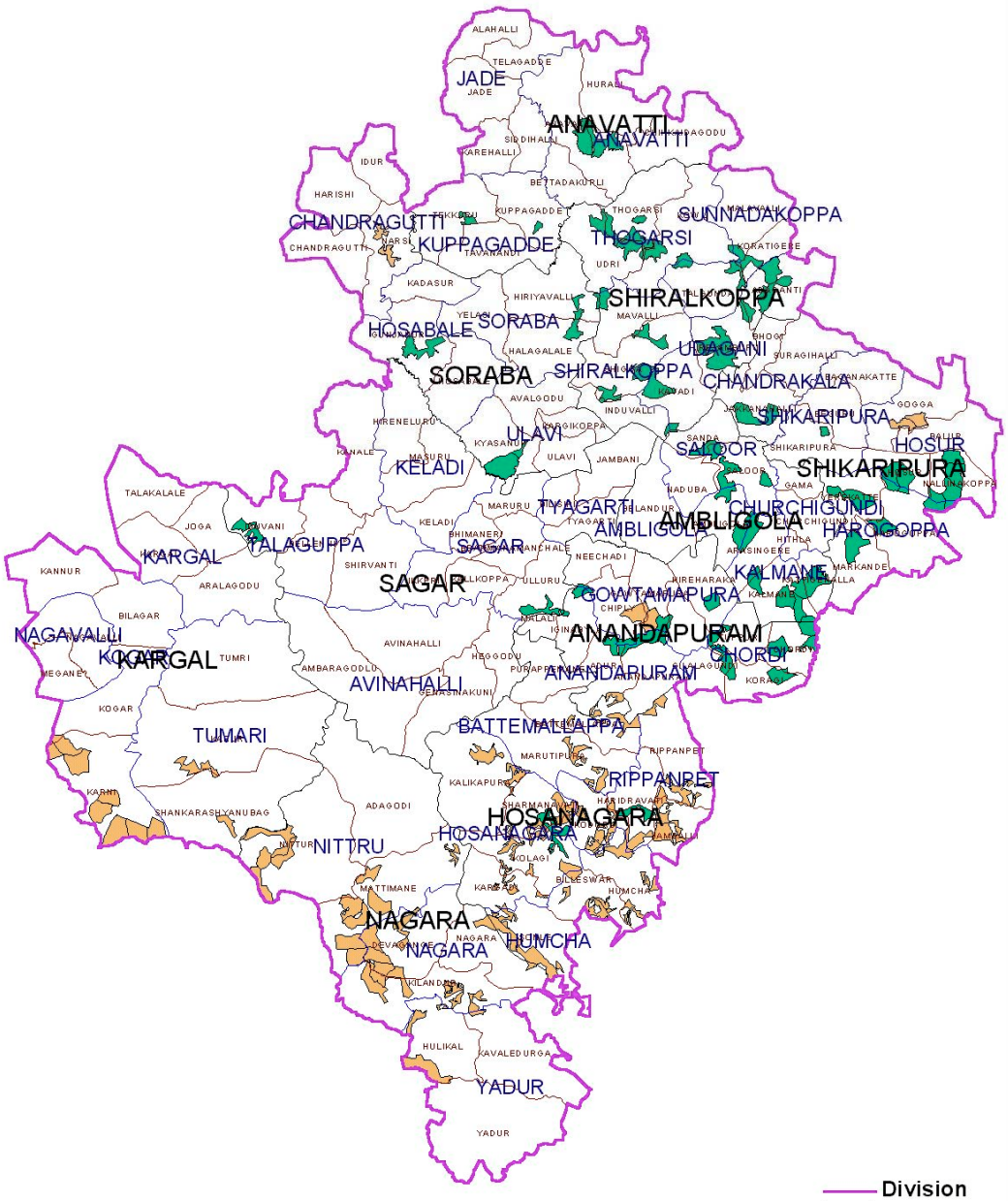
Map showing different compartments alloted to Afforestation and plantation management working circle (Excluding JFPM areas)



Not to Scale

Map-23

Map showing different compartments alloted to plantations raised by MPM & KFDC



Not to Scale

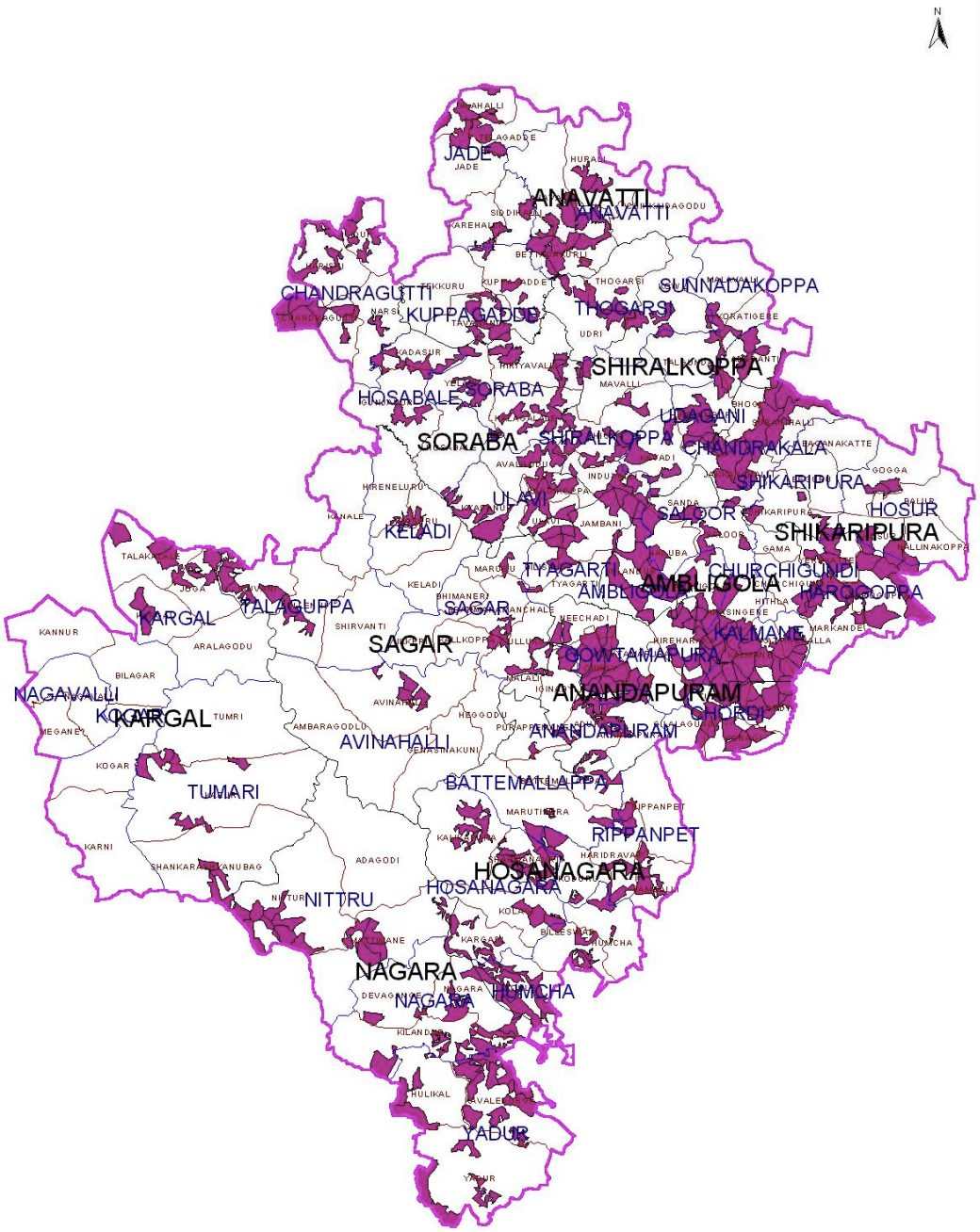
Map-24

Map showing different compartments alloted to JFPM

Not to Scale

Map-25

Map showing different compartments in which encroachment has taken place



Not to Scale

Map-26