FOREST PLANTATION MANAGEMENT PLAN FORMAT

FOREST DEPARTMENT PENINSULAR MALAYSIA
JALAN SULTAN SALAHUDDIN
50660 KUALA LUMPUR
COMPANY PROFILE

Company Logo

FOREST PLANTATION MANAGEMENT PLAN
(FOREST PLANTATION NAME/COMPANY)

LOCATION........................................................................................................
STATE..........................................................................................................
AREA...........................................................................................................
PERIOD TIME.............................................................................................

COMPANY NAME and ADDRESS
FOREST PLANTATION MANAGEMENT PLAN APPROVAL

PREPARED BY:

...........................................................

(COMPANY NAME)

APPROVED BY:

...........................................................

(AUTHORITIES)

DATE

...........................................................
EXECUTIVE SUMMARY

- A whole brief description of the Forest Plantation Management Plan
# CONTENTS

<table>
<thead>
<tr>
<th>COMPANY PROFILE</th>
<th>i</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOREST PLANTATION MANAGEMENT PLAN APPROVAL</td>
<td>ii</td>
</tr>
<tr>
<td>ACRONYM</td>
<td>iii</td>
</tr>
<tr>
<td>EXECUTIVE SUMMARY</td>
<td>iv</td>
</tr>
<tr>
<td>CONTENTS</td>
<td>v</td>
</tr>
</tbody>
</table>

## CHAPTER 1 : INTRODUCTION

1.1 Background
1.2 Company Information/Plantation Entrepreneur

## CHAPTER 2 : BASIC INFORMATION OF PROJECT AREA/FOREST PLANTATION DEVELOPMENT

2.1 Location
2.2 Project Area Information
2.3 Site Environment Information

## CHAPTER 3 : PROJECT DEVELOPMENT CONCEPT

3.1 Establishment of Forest Plantation
  3.1.1 Zonation
  3.1.2 Plantation Development Phase

v
3.1.3 Site – Species Feasibility Study  
3.1.4 Boundries Delineation  
3.1.5 Site Preparation  
3.1.6 Infrastructure and Facilities  

3.2 Forest Plantation Management  
3.2.1 Management Activity (By Species)  
3.2.2 Harvesting Operation  
3.2.3 Replanting  
3.2.4 Non-Wood Forest Product  

3.3 Conservation of Biodiversity  
3.4 Research and Development (R&D)  

CHAPTER 4 : CONTROL, MONITORING, ASSESSMENT AND SAFETY  
4.1 Mitigation Actions by Plantation Establishment Phase  
4.2 Buffer Zone  
4.3 Chemicals and Pesticides Handling  
4.4 Fire Prevention  
4.5 Pest and Disease Prevention  
4.6 Invasive Alien Species Control  
4.7 Physical Security Control  
4.8 Human Wildlife Conflict Prevention
4.9 Safety and Health  8
4.10 Evaluation Management Effectiveness  8
4.11 Monitoring and Reporting  9
4.12 Review of Forest Plantation Management Plan  9
4.13 Compliance With Orders by the Authorised  9

CHAPTER 5 : HUMAN CAPITAL  

5.1 Labor  10
5.2 Training  10
5.3 Woman Participation  10

CHAPTER 6 : FINANCE  

6.1 Estimated Establishment Management Cost  11
6.2 Cost and Benefit Analysis  11
6.3 Marketing Strategy  11

CHAPTER 7 : CONCLUSION  12

REFERENCE  13
## APPENDIX LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Company Profile</td>
<td>EXAMPLE</td>
</tr>
<tr>
<td>2.</td>
<td>Location Maps</td>
<td>EXAMPLE</td>
</tr>
</tbody>
</table>
## TABLE LIST

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Gantt Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 2</td>
<td>Plantation Planning Development Phase</td>
</tr>
</tbody>
</table>

EXAMPLE
DIAGRAM LIST

Diagram 1 : EXAMPLE
Diagram 2 :
CHAPTER 1
INTRODUCTION

1.1 Background
The rational of Forest Plantation Management Plan format (FPMP) is for establishment of forest plantations in Permanent Forest Reserve (PFR), state land and alienated land. The forest plantations establishment is subjected to the policies, regulations and existing guidelines enforce by the Government.

This para defines the Forest Plantation Management goals and objectives to be achieved within FPMP consistent with rational/FPMP requirements and include the following:

- Legal requirements
- Statement regarding the preparation and approval of the EIA
- Compliance with MC & I Forest Plantation.v2
- Information Project Approval
- Duration of the project will be implemented
- Status of the project area either leased, rented or under Use Permit
- The plantation establishment objectives

1.2 Company Information/Plantation Entrepreneur
This para defines the history and development of the organization that includes the following:

- Description of the company/plantation entrepreneur
- Vision, mission and strategy of the company/plantation entrepreneur
CHAPTER 2
BASIC INFORMATION OF PROJECT AREA/FOREST PLANTATION
DEVELOPMENT

2.1 Location
This para defines the location of the project approved and discription of the area such as compartment number and Permanent Forest Reserve (for the area in PFR), sub-district, district, state and area. Appropriate scale maps are included as an attachments.

2.2 Projek Area Information
This para defines the following items:
- Current land use
- Topography
- Geology and soil
- Climate and rainfall
- Hydrology and water quality

2.3 Site Environment Information
This para defines the information of the approved area such as:
- Land use
- Physiografik:
  - Central Forest Spine (CFS)
  - Sensitive area such as Environmental Sensitive Areas, HCVF/HCA, VJR, Amenity Forest, State Park, Water Catchment Forest, water intake/water for community use
  - Wildlife habitat/Wildlife Conservation Area
- Social aspects such as the native and local community settlements

2
CHAPTER 3
PROJECT DEVELOPMENT CONCEPT

3.1 Establishment of Forest Plantation

3.1.1 Zonation
This para defines the necessity to create zone for existing forested areas (natural areas), protection areas (reserve areas) and suitable planted areas (planted area).

3.1.2 Plantation Development Phase
This para defines the requirements for the companies/plantation entrepreneur to provide an operational planning of forest plantation development phases, if necessary.

3.1.3 Site-Species Feasibility Study
This para defines Site-Species Feasibility Study carried out by companies/plantation entrepreneur are covers the following:
- Soil Suitability Study
- Species Selection
- Resources of saplings

3.1.4 Boundries Delineation
This para defines the needs of boundaries delineation of the Project which is covers the following:
- Measurement of the boundries (Licensed Surveyor)
- Tagging and cleaning the boundries

3.1.5 Site Preparation
This para defines site preparation works before planting trees. It was covers:
- Land clearing and disposal of wood waste methods
O Site preparation work such as:
  - Planting Block
  - Planting line
  - Terracing or foot step
O Cover crop
O Machineries and equipment used

3.1.6 Infrastructure and Facilities

This para defines information of infrastructure and facilities occupied by the company. Infrastructure and facilities require as follows:
o Administrative Office
o Quarters
o Store and workshop
o Nursery
o Road
o Basic facilities such as:
  - Electricity
  - Water
  - Sewage system
  - Clinics
  - Transportation and communication systems.

3.2 Forest Plantation Management

3.2.1 Management Activity (By Species)

This para defines the management activities in the establishment of forest plantations such as site preparation and silvicultural treatments. Information management activities shall be accordance with the species to be planted. The activities are as follows:
o Planting operation
O Silvicultural treatments such as:
  - Fertilization
  - Weeding
  - Re-planting
  - Pruning
3.2.2 Harvesting Operation

This para defines the forest plantation harvesting operation which is includes the following:

- Maturity
- Intermediate harvest and the final harvest
- Harvesting plan
- Harvesting method

3.2.3 Replanting

This para defines the replanting program for the second rotation covering the management, development and silvicultural treatments.

3.2.4 Non-Wood Forest Product

This para defines the company/plantation entrepreneur plan to generate income from non-wood forest products during the development of forest plantations (if any). The programmes are as follows:

- Determine the suitable type of crop and livestock
- Products/revenue
- Cultivation and animal husbandry technique
- Expected period of production
- Marketing method

3.3 Conservation of Biodiversity

This para defines conservation of biodiversity of flora and fauna within the project area related to distribution; diversity; habitat; endangered, rare and threatened (ERT) species. Other items included as follows (if any):

- High Conservation Value Forest (HCVF)/High Conservation Area (HCA)
- Sample plot
- Salt lick
- Buffer Zone
3.4 Research and Development (R&D)

This para defines the prescription management for research and development activities as well as follows:

- Seeds Genetic Improvement
- Permanent Sample Plot (PSP)
- Harvesting product
- Harvesting method
CHAPTER 4
CONTROL, MONITORING, ASSESSMENT AND SAFETY

4.1 Mitigation Actions by Plantation Establishment Phase
This para defines the outlines of prevention/mitigation measure and technique to resolve the issues and impacts from the establishment of forest plantations accordance the requirements of the Environmental Impact Assessment (EIA) as follows:
O Site Preparation Phase
O Construction and maintenance of infrastructure phase, particularly plantation roads
O Planting phase
O Treatment phase
O Harvesting phase

4.2 Buffer Zone
This para defines the precaution measures to avoid the desecration in the buffer zone.

4.3 Chemicals and Pesticides Handling
This para defines the steps of use and handling of chemicals and pesticides in accordance the rules and regulations by the Authorities. To ensure chemicals/pesticides do not flow into the river/water sources.

4.4 Fire Prevention
This para defines the preventive measures taken to reduce the risk of fire incident in forest plantation. This include the mitigation measures against fire incident such as forest plantation/forest fire management plan, fire breaker/fire barrier and areas map for fire control.

4.5 Pest and Disease Prevention
This para derives the types of pest and tree diseases in the forest plantations. The preventive/mitigation measure comprise to reduce the risk of pests and diseases attacks in forest plantation.
4.6 Invasive Alien Species Control
This para derives the actions and controls that need to be taken by the company/plantation entrepreneur to control the invasive alien species introduced or cultivated in forest plantations. It is important to prevent the species from spreading outside of forest plantations area whereby that will adverse effect on the economy, environmental and ecological.

4.7 Physical Security Control
This para derives the design of physical security controls plan that need to be take into consideration in forest plantation such as:
O Security signage/restricted area signed
O Guard house

4.8 Human Wildlife Conflict Prevention
This para describes the history of human wildlife and plants conflict that are/have been happened in the project area. The mitigation measures and problem/conflict should be address as well as wildlife conflict and plant pest. The cooperation between the agencies in wildlife should be more explained.

4.9 Safety and Health
This para derives information on workers rights and employers obligations should be fulfilled in accordance with the law, current provisions and regulations enforce by the Government.

4.10 Evaluation Management Effectiveness
This para derives commitment of the company/plantation entrepreneur implementing the MC & I Forest Plantation.v2:
O Documentation preparation
O Implementation of criteria, indicators, verifiers
O Internal Audit
O External Audit
O Corrective Actions Request (CAR)
O Certification
4.11 Monitoring and Reporting
This para derives explanations related to the monitoring control mechanisms such as the use of forms to monitor work plans, reports preparation and updating necessary records related to the management and development of forest plantations which is include the following:

O Monthly Progress Report
O Annual Progress Report
O Maintenance of Records

4.12 Review of Forest Plantation Management Plan
This para derives a brief description of the relevant requirements to review FPMP periodically such year of review to be carried out and the factors to be considered, i.e. the results of monitoring and improvement actions, scientific information and technical updates, changes in environmental, social and economic.

4.13 Compliance With Orders by The Authorised
This para derives a brief description of compliance to the requirements by authorized parties in accordance with the agreement/consent between both parties.
CHAPTER 5
HUMAN CAPITAL

5.1 Labor
This para derives an explanation about the labor involved in the establishment and management of forest plantations. Employment priority given to local communities. The organization chart of the company/plantation entrepreneur are included as an attachments.

5.2 Training
This para derives the description of the training activities plan for staff/employees of forest plantations and its implementation for the period of FPMP in order to increase knowledge and skills.

5.3 Woman Participation
This para derives an explanation about encouragement of women's participation in the management level of the company.
CHAPTER 6
FINANCE

6.1 Estimated Establishment Management Cost
This para explains the needs and financial resources as well as the estimated costs that involved in the establishment and management of forest plantations.

6.2 Cost and Benefit Analysis
This para explains the expectations of profits compared with the cost of establishment and management of forest plantations for the period FPMP. This analysis includes assumptions of increased capital and expectations of price fluctuations that will be obtained for the period FPMP.

6.3 Marketing Strategy
This para explains the marketing strategy that will be implemented by the companies/plantation entrepreneurs in selling their timber and non-timber forest products i.e local market/overseas market/proceesing into end product.
CHAPTER 7
CONCLUSION

Briefly conclusions regarding FPMP.
REFERENCE

List of references used in preparing FPMP. While the reference writing format is in accordance with the following example:


