



The Forestry Service Group
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Forest Management Plan (FMP).

Preface

Space for authorisation (sign).

Summary

Introduction

The certification project. The need to meet the FSC standard. FSC in the country.
(why is this plan written)

Documents taken into account while writing this plan:

- FSC manual/documents (policies in this documents, details in the company manual)
- Certification body checklists (several).
- FAO forest harvesting code (code of forest practise).
- Mention others----

Part 1 Long term strategical plan (40 years).

Chapter 1 Duration of the plan and general aspects

Concession or plantation name or ref number.
Location of the forest.
Size ; gross area, excluded area, net area.
Start date of the concession
Finish date of the concession
Authors (who has written this documents);

How long are the plans valid?

The strategical plan: 40 year plan.
The operational plan; 5 years.
The annual logging plan: maximum 2 years (then the compartment is closed).

Renewing and updating the plan (procedure; monitoring & evaluation, Responsible people to update the plan (mention all 3 parts); should be the company.

The strategical plan: 5 years before expiring the company should start working on the new one.
Procedure: (explain)

The operational plan; after 3 years from start the company has to start working on the next plan.
Procedure: (explain)

The annual logging plan: One year before entering the compartment.
Procedure: After closing the compartment; what happened? The process:

Chapter 2 Company/organisation background

Company background and history of the company.
General goal of the company (commitment regarding Sustainability and FSC).
Detailed goals of the company.
Export plan.
Affiliations with third organisations.

Chapter 3 Objectives of TUC management.

1: Objectives of forest management

1.1 Environmental goals (goals regarding the forest in general, species composition, silvicultural issues etc).

For each subject mention a short goal.

Fauna objectives.
Flora.
Thinning.
Replanting.
Natural Regeneration of the forest.
Erosion protection.
Dead wood.
Water body protection
Soil protection
Waste (plastics etc)
Remains of logging (wood)
Chemicals.
Fertilizers.
Hunting; official & company policies
Illegal activities: Guarding the forests and protection against illegal logging and hunting
Oils and fuel
NTFP; national policy, company

Fire management plan.
Road & bridge building.
Maintenance of roads and bridges.
What happens after closing the compartments.

1.2 Social goals (code of conduct).

Repair of damages to others (Compensations, procedures etc)
Contractors
Accident records
Stakeholder communication.

1.3 Economical goals

Chapter 4 The forest resource

1 The region in which the forest is (Ecosystem) mention briefly.

2 The forest area. Description.

Gross and net area's (mention hill area's, research/PSP area etc). Geology, landscape, soil and vegetation type.
Climate of the region.

3 Legal aspects (log tracking, laws, system of making, endorsing FMP's, land titles documents, border markings in the field, border disputes. Governmental contracts if there are any.

4 Administrative borders (how are they marked).

5 History of the forest. Earlier exploitation and Compartment schedule in rotation. Overview of all compartments. Rotation periods set for this area/ per specie.

6 Protected area's in forests, policies. Summary of protected area's in this forest. % of total area. 10%? Who is responsible for the protected area.

7 HCVF

We don't have it; what are we going to do. Establish an independent team, In the coming two years from start of this document.

At the moment there are no HCVF area's identified. Therefore HCVF areas need to be identified in the coming year. The company has the idea to do this in close cooperation with:

- Governmental forest service (national policy input)
- Social foundation (social input)
- Students of university for additional research if needed.

The best way to do this is to ask some student to take the lead and work closely together with the other partners in actually identifying the HCVF areas (and use FSC principles as guidelines).

The company will identify these areas within one year after the start of this FMP.

8 Infrastructure (roads etc).

9 Important water bodies.

10 Maps to this FMP.

(mention the ones from your CAR's).

5: Means of achieving the management objectives.

In this chapter all possible details will be mentioned. Here you explain HOW you are going to achieve your goals mentioned in chapter 3.

- General Forest management. The system used. Who does what? In this paragraph we should explain the whole current system.
- Sustainable forestry in general; including dangers caused by opening up the canopy; the felling cycle etc.
- Reduced impact logging (reduce impact) General system of harvesting trees and cutting to blocks (also documents in use; log-tracking). Directional felling methods. Instructions to minimize damage and waste in the forest.
- General system of extracting trees. Instructions to minimize damage and waste in the forest for machine operators.
- Red list species in flora and fauna; how to recognize these.
- Making and updating FMP's.
- Road & Bridge building.
- Yield calculations.
- Development & calculation of harvesting schedules & figures; the system.
- Waste disposal and pollution in the forest.
- Recognize rotten trees before you harvest.
- H&S issues in the forest.
- Tree and stump marking. How is it done.
- Transport of the wood to the sawmill/ customers. General system of transporting the wood (documents in use; log-tracking up to the gate of the sawmill. Explanation of the forms in use).
- Implementation of social aspects (with local communities); the official rules.
- Conservation strategy; Epiphytes etc.

Part 2 operational plan (5 years or coup plan)

Chapter 1 Latest forest figures

- 1 What is harvested in the last 5 years (or previous coup) and in which compartments.
- 2 What will be harvested in the coming 5 years (current coup) and in which compartments. Summary etc should be stated here. Compartment preparation procedures, when to start (1 year before is best.)
- 3 Tree species and status (protected or not, classes etc latest lists.)
- 4 Non Timber Forest Products; Latest Inventory.
- 5 Fauna. Latest Inventory.
- 6 Flora. Latest Inventory.
- 7 Illegal harvesting (explain experiences, what has been done to prevent, plans for this coup).
- 8 Sensitive sites in this coup area; and details how to preserve these.
- 9 Potential fire hazards in this coup area.
- 10 Planned post logging activities. In more detail per compartment.
- 11 Other pressure on the forest (mining, tourism etc).
- 12 PSP management and latest data of PSP's.

13 Monitoring & Evaluation. (M&E)

Here you can easily copy information from CAR's and FSC manual about monitoring.

14 Results of M&E; targets set for coming 5 years.

This FMP still has to be started and therefore there is no results of M&E yet.

15 Changes made in the management based on the M&E.

This FMP still has to be started and therefore there are no changes made yet.

16 Additional research needed.

Except for the monitoring aspects and identifying the HC VF (see separate paragraphs) there is the following additional research needed: (mention)

17 Public available information.

Copy public info and explain what the procedure is (from FSC manual).

18 Present market (local, export etc).

Mention economical site of the story. You have to convince FSC that the logging operations are economical feasible.

Chapter 2 Latest social aspects

Target groups regarding social issues:

Communities.

Employees.

Neighbours & other stakeholders.

1: Villages

Villages around the forest (data; names, contact-people etc) (in this chapter we will include all data from Social research). Per village mention:

Means of livelihood

Trends (remigration, etc)

Benefits of FSC for community.

Way of discussing/ developing FMP with villages etc.

Other Forest Management issues; hunting, waste disposal, special interest sites etc

Access to NTFP.

Mentioned sensitive sites.

Method of getting these social details. We will analyse the social records and CAR forms annually. If needed the company will arrange additional social survey for every 5 years.

M&E social data. Updating.

2 The employees

2.1 Culture, organisation en traditions of employees and local people

2.2 Employees council, labour unions, Illo conventions. Collective Bargaining Agreement (CBA)?

2.3 Local regulations.

2.4 Salary issues (when and how is paid). Collective Bargaining Agreement (CBA)?

2.5 Social issues (insurances, health and workman compensation). Collective Bargaining Agreement (CBA)?

2.6 Labour conditions (working days, transports, clothing, who is employed and who not etc). Collective Bargaining Agreement (CBA)?

2.7 Training program coming 5 years, education and schools (per employee the received training; focus on Forest-employees and managers).

2.8 Entertainment & welfare issues (facilities, restaurant etc).

2.9 Safety issues (organisation).

3 Neighbours and other stakeholders

3.1 Who are the other neighbours?

3.2 How are they involved in the development of this FMP (stakeholder consultation).

3.3 List of other stakeholders.

Chapter 3 System of Forest Management.

1 Explanation of how the company/organisation is working.

2 Company resources. Machinery, people involved:

Company management.

Technical officers.

Administrational staff.

Machine operators.

Tree fellers.

Tree hunters.

Truck drivers.

Others.

In a table with columns: People involved, Machinery + year of production of machinery.

3 Figures of undisturbed forest or PSP data of the same forest type.

General (how and when these figures are collected).

Species encountered.

Volumes per specie.
Diameter classes.
Growth figures.
Calculations.

4 Results of forest stock taking (used for the coming 5 years).

General (how and when these figures are collected).
Separation in management units (coups, compartments etc)
Species encountered.
Volumes per specie.
Diameter classes.
Calculations.
Regeneration.

5 Compare undisturbed/PSP data and present forest.

Differences in general.
Differences in volumes per specie.
Conclusion for present forest regarding "originality".
Conclusions in relation to the yield formula's explained in the next paragraph. Correction needed?

More to compare: undisturbed forest, international figures, national figures.

6 Sustainable calculations.

General

Explanation of the system of calculations.
Needed and used parameters (and how are these drafted). Mortality figures, growth, diameter limits per specie.
Formula in use.
Corrections to the formula made in relation to mortality, growth, growing circumstances, poor or rich forest etc.

The calculations with computer program (explain which programme)
The yield for the coming 5 years of exploitation in Volumes.
Where will this yield be located? Maps, coups etc.

7 Tree selections.

General

Explanation of the system (diameter limits, protected species, buffer zones, steep hills).
Which trees will be taking and why.
Control in the field
Exchange of yield trees for other trees.
The system of marking yield trees in the forest.

The trees which will be taken (maps).

8 Road & bridge building

Where are the roads and bridges planned? Maps.

Part 3 Annual logging plan

- 1 Name of forest
- 2 Sub region (management unit or else) if applicable.
- 3 Compartment
- 4 Size of the area in ha
- 5 Name of the contractors involved.
- 6 Proposed start date
- 7 Proposed finish date
- 8 Other compartment proposed for entry in current calendar year.
- 9 Modifications to planned yield to be extracted.
- 10 Road/track construction.
Total length of semi permanent tracks to be constructed in KM:
Total length of skidding tracks needed in KM:
- 11 Number of logyards:
- 12 Attached map to be prepared at a scale of 1:10.000 (or greater)

The map to indicate:

- Compartment boundary.
- All protected areas to be excluded from the timber production area.
- All water courses.
- Position of existing tracks and roads.
- All new tracks to be constructed.
- Log dumps.
- Logging camps.

Additions to this FMP

- 1: Land title documents
- 2: Stock taking details.
- 3: Fauna stock taking details.
- 4: Flora stock taking details.
- 5: Maps of the Forest (vegetation type, geology, topographical etc).
- 6: FSC policies issued with company