Public Summary of Management Plan
GWI 2
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General Presentation

Gabon Wood Industries

We are a Malaysian Company who has been investing in Gabon since 25 years ago. Gabon Wood Industries (GWI) was established in 2012 in the Gabon Special Economic Zone (GSEZ). We own 12 ha of industrial land and approximately 400,000 ha of forest mainly in the southern part of Gabon with an annual production of approximately 400,000 m$^3$ of round logs. We operate our forest under Sustainable Forest Management practices ensuring the products you buy from us are of quality, reliable and most importantly, sustainable and environmentally friendly.

A CPAET for GWI 2 was signed on June 10, 2015, between the Minister of Forestry and GWI. GWI 2 consists of 4 PFAs (PFA 09/10, PFA 10/10, PFA 03/11 and PFA 03/14), for a total area of 129,267 ha.
Environment

Climate

GWI 2 CFAD (Forest Concession under Sustainable Management) is under a transitional tropical rainfall pattern with a short dry season of three months (June, July and August) followed by a long wet season of nine months, characterized by a more or less significant rainfall shortfall (usually three months). Rainfall ranges from 2,000 to 2,400 mm per year in the southern zone PFAs, PFA 03/11 and PFA 03/14 Lot 1, and from 1,700 to 1,800 mm per year in PFA 03/14 Lots 2 and 3.
**Topography**

In PFA 03/11, the altitudes vary from 190 m to 750 m. The relief is mainly formed by hills with medium to very steep slopes. Operating conditions are moderate to difficult.

In PFA 03/14 Lot 1, the elevations vary from 560 to 880 m. The relief is mainly formed by hills with medium to very steep slopes. Operating conditions are moderate to difficult.

The altitudes vary from 80 to 980 m in the PFA 03/14 lot 2. The terrain is mainly composed of hills with steep to very steep slopes. Operating conditions are difficult to very difficult.

Operating conditions are easy in PFA 03/14 Lot 2, where elevations range from 160 m to 550 m, in a terrain of sub-planar hills with gentle to moderate slopes.

Elevations range from 110 m to 710 m from west to east in PFA 09/10 and 10/10. PFA 09/10 lies on low to moderate sloping subaplanar hills, as does the southwestern portion of PFA 10/10. The remainder of PFA 10/10 is on hills with moderate to steep slopes. From west to east, operating conditions are easy to moderately difficult.

**Fauna**

Most of the fauna species present within GWI 2 are medium and large mammals. Some characteristic reptiles were also searched. In total, 66 species such as gorilla, elephant, buffalo, chimpanzee and many duikers were surveyed.

**Vegetation**

There are four types of vegetation formations in this CFAD:

1. Old and recent village crops occupy a total area of 7,950 ha, in two zones
   (a) At PFA 03/11, along the Medoumeu road;
   (b) In the southern zone, numerous patches of cultivation, mainly in PFA 09/10.

2. Savannahs are present only in PFA 09/10. They occupy an area of approximately 520 ha;

3. Some swamps are found along the Douai River in PFA 09/10 on about 270 ha;

4. The remainder of the CFAD is covered by dense terra firma forest on approximately 122,800 ha.

**Socio-Economic Analysis**

A socio-economic study was conducted during 2017 and in 2018 by CURFOD in the villages located in and near the CFAD. We summarize the main points here.

In the Estuary-Middle Ogooué-Woleu Ntem zone, there is a homogeneous Fang ethnic group.
In Ngounié, the information collected shows a dominant ethnic group in the GWI 2 development zone: the Nzébi ethnic group, which cohabits with the Wumbu, Punu, Babongo pygmies and Akele.

An examination of the geographic and spatial distribution shows that:

1. The Nzébi, the dominant ethnic group in the area, are found mainly in the Mbigou area, and also in some villages in Lebamba, in the Louetsi Wano department, and in Moula, in the Douya Onoye department;

2. The Wumbu are present in the Lebamba area, in Mbigou in the southern part of the Nzenzélé district;

3. The Babongo Pygmies and the Punu are located in the areas of Lebamba in the Louetsi Wano department and Ndéndé in the Dola department;

4. The Akele are found in the Mbigou zone in the Boumi Louetsi department in the Nzenzélé district.

**Information of the Concession**

**Management Inventory**

The results of the management inventories are detailed in the management inventory reports.

The management inventory is the major tool for the rational and planned management of the forest concession. It allows an evaluation of the timber resource, in quality and quantity, a better knowledge of the dynamics of the populations, of the wildlife resource and of the use of the products of the forest by the local populations.

We wanted to have inventory results with a minimum accuracy of 10% for the main species at the CFAD level. In accordance with the inventory protocol, 212 plots were therefore installed in GWI 2.

With this arrangement, the sampling rate obtained is approximately 0.9% for the main species that can be harvested, with an average spacing between plots of 3,500 m.

**Objective Species**

Forty-one objective species are defined for CFAD GWI 2:

Group P1: 1. Okoumé; 2. Ozigo;


Forest Management Measures

Forest Management Objectives

Sustainable Timber Production and Processing

GWI is in the business of logging and processing timber into finished products.

The main objective of the operation is therefore to harvest okoumé logs and other species for local processing, particularly in the sawmill based in Mokabo, in the one based in Otouma, and in another to be created on site.

Socio-Economic Objective

The CFAD is mainly inhabited along the main roads. The population lives mainly from agriculture and harvesting.

In view of the discontinuous nature of the village boundaries and given the human density in certain areas, it is proposed to set up areas for the use of the populations.

Environmental Objective

The forest that covers CFAD GWI 2 is a forest of Burseraceae, Caesalpiniaceae, Euphorbiaceae, and Myristicaceae, mostly of medium altitude.

Remarkable forest formations, notably the forest at altitudes above 700 m, are present but not widespread. This justifies the creation of a conservation series.

Some species that are very rare in CFAD (less than 5 trees/100 ha of more than 17.5 cm in diameter) and that are listed as "Vulnerable" on the IUCN list are excluded from exploitation in certain UFG.

Protection of environment will be carried out throughout the CFAD, and especially in the production areas through low-impact logging, particularly in the hilly, steeply sloping areas, located in the Ramsar zone.

The impact of the operation on wildlife will be reduced primarily by the control of hunting by company personnel and its contractors.
### Series of Production, Conservation, Usage of Population and UFG

**Carte 22a. CFAD GWI 2 - Carte des Unités Forestières de Gestion**

<table>
<thead>
<tr>
<th>CFAD</th>
<th>UFG</th>
<th>Années</th>
<th>Surface (ha)</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>2</td>
<td>2020-2024</td>
<td>30 338</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2025-2029</td>
<td>17 943</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>2030-2034</td>
<td>18 379</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>2035-2039</td>
<td>23 702</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>2040-2044</td>
<td>26 338</td>
</tr>
</tbody>
</table>

**GWI 2**

**TOTAL:** 116 700

Série de conservation: 5 902

Série à l’usage des populations: 6 409

**TOTAL CFAD GWI 2:** 129 011

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[Map and table showing detailed information on CFAD GWI 2, UFG, and their usage periods and areas.]
Rules of Operation

Sustainable Forest Management

The inventory of exploitation is carried out by systematic grid of east-west and north-south.

The list of species to be inventoried corresponds to the objective species. The minimum diameters of inventory will be the diameter in the Management Plan.

All qualities are inventoried, and labeled with a plastic tag with a number, nailed to the tree.

Future trees and seedlings will be identified at the time of tracking. Species prohibited from harvesting will be visibly marked.

Reduced Impact Logging

All recommendations and guidelines contained in the FAO Regional Code for Low Impact Logging in the Dense Tropical Rainforests of West and Central Africa shall be applied, including recommendations for road construction, felling, trimming in the forest, skidding, trimming in log yards, etc.

Social Measures

Internal Social

Continuous effort by the Company will be made to improve on these areas which concern the staff: security, health, hygiene, training (first aid, directional felling and so on) etc.

External Social

Contribution to local development will be managed in accordance with article 251 of the Forestry Code

Environmental Measures

Measures will be taken by the Company to protect the environment and biodiversity including proper planning of road, maintenance of watercourse etc.