**Gold Standard for the Global Goals**

**Template – CO2-Fixation for Afforestation and Reforestation Projects**



**Version 1 – July 2017**

**SECTION A. PROJECT DESCRIPTION**

**A. 1. Title of the project**

Title:

Date:

Version no.:

Gold Standard ID:

**SECTION B. LONG-TERM CO2-FIXATION**

*>>Please outline how your project meets each of the following requirements, referring to any supporting documentation where necessary*

| **Existing ‘tree biomass’ from the carbon stock of the Baseline that is not removed shall be reflected in the growth-model.** |
| --- |
| **[ ]  Relevant [ ]  Not relevant** |
| **...** |

| **A realistic survival-rate shall be reflected in the growth-model.** |
| --- |
| **...** |

**Copy this table for the different growth-models. The detailed year-by-year growth-models shall be reflected in the ClimateProjects system or in a separated spreadsheet.**

**Long-term CO2-Fixation tree biomass**

**Conversion Procedure**

Aboveground tree biomass = Stem volume \* Biomass Expansion Factor \* Wood density \* Carbon fraction \* C to CO2 factor

Belowground tree biomass = Aboveground tree biomass \* Root-to-Shoot ratio

| **Growth-model ID**  | **… e.g. Mixed oak 01** |
| --- | --- |
| **Applied for MUs** | **… This growth-model applies to the following Modelling Units (MUs) - e.g. 001, 002, 003, etc.**  |
| **Calculation model** | **[ ]  Option 1 - Selective harvesting [ ]  Option 1 - Conservation forest [ ]  Option 2 - Rotation forestry** |
| **Time period** | **… years until the equilibrium or average stand biomass is reached.** |
| **Long-term CO2-Fixation tree biomass****In the unit: [m3/ha] or [tdm/ha]** | **Long-term value:**  | **… [ ]  m3/ha [ ]  tdm/ha** |
| **Growth-model:** | **[ ]  Project-specific [ ]  Regional [ ]  National [ ]  International**  |
| **Reference:**  | **…** |
| **Justification of growth-model:** | **… How does this value provide the most accurate information for the project?** |
| **BEF** | **Value:**  | **…**  |
| **Default value:**  | **[ ]  Project-specific [ ]  Regional [ ]  National [ ]  International [ ]  Gold Standard** |
| **Reference:**  | **…** |
| **Justification of value:** | **…**  |
| **Wood density** | **Value:**  | **…**  |
| **Default value:**  | **[ ]  Project-specific [ ]  Regional [ ]  National [ ]  International [ ]  Gold Standard** |
| **Reference:**  | **…** |
| **Justification of value:** | **…**  |
| **Root-to-Shoot ratio** | **Value:**  | **…**  |
| **Default value:**  | **[ ]  Project-specific [ ]  Regional [ ]  National [ ]  International [ ]  Gold Standard** |
| **Reference:**  | **…** |
| **Justification of value:** | **…**  |
| **Long-term CO2-Fixation** **[tCO2/ha]** | **… tCO2/ha** |

 **Present CO2-Fixation**

**Certificates**

| **The number of sample plots of a *forest inventory* shall be sufficient to meet a MU precision with a maximum error of ±20% at a 90% confidence interval. Where the error is above 20%, the additional difference shall be deducted. Provide an overview for which MUs this requirement was relevant and describe the adaptation.** |
| --- |
| **...** |

**Copy this table for different forest inventories of the Modelling Units (MUs).
The detailed year-by-year growth-models shall be reflected in the ClimateProjects system or in a separated spread sheet.**

**Present CO2-fixation**

**Summary of a forest inventory**

| **Forest inventory ID** | **… Give this summary of a forest inventory an ID** |
| --- | --- |
| **This inventory is for the Modelling Unit (MU)** | **…** |
| **Size of the MU** | **… ha** | **Responsible for the inventory… Name and contact details; email and phone** |
| **Date of inventory** | **… month and year** |
| **Shape of sample plots** | **[ ]  Circular [ ]  Rectangular [ ]  Other, …** |
| **Size of sample plots** | **… m2** |
| **Number of sample plots** | **…** |
| **Precision level** | **… %** |
| **Sample plots with slopes >10%** | **[ ]  Yes [ ]  No**  |
| **Name of reference document** | **… Spread sheet where the inventory is documented** |
| **Result of the inventory**  | **… m3 stem volume per ha** |
| **Inventory was executed in order to adapt the growth-model** | **…**  |
| **How does the inventory adapt / confirm the growth-model** | **This inventory leads to a [ ]  confirmation [ ]  adaptation of the existing growth-model.****… description / justification** |
| **Present CO2-fixation** | **… tCO2/ha** |