



Amsterdam, 12 February 2024

To whom it may concern,

We hereby confirm that on 12/02/2024, a total of **1938** Carbon Removal Credits (CRCs) were issued to **Alenbambu LDA** (513510745), *Estrada de São Brás, Lote 4, R/C 7830-324 Serpa*; hereby identified by us with project identification number: BBL-L-011. Out of these CRCs 20% are kept in a holding pool for risk mitigation purposes. The characteristics of the CRCs can be found on the attached Data Validation Statement (Annex I).

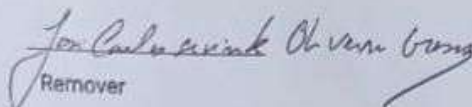
All transactions (purchase / sale) of the units must be recorded in the Oncra Ledger at all times. Therefore, the purchase/sale of these units must be reported to Oncra in written form which needs to be confirmed to be legally acceptable.

The applicable Oncra Guidelines at the time of issuance of these CRCs can be found in the version dated 29 September 2023. In case of questions regarding the provided CRCs, please contact us at the contact details below.

For Oncra, legally represented by Climate Cleanup Foundation,

Sven Jense
Director

And the remover, legally represented by José Carlos,


Remover



Annex I. Project Validation Certificate

This Validation Certificate proves that Remover has provided Oncra with the necessary information to obtain reasonable assurance about the accuracy of its actual carbon removal.

Project id	BBL-L-011
Oncra Approved Project Name	Bamboologic - Vidigueira
Type of Activity / Removal practice	Bamboo farm
Location	Vidigueira, Portugal
Remover / operator	José Carlos
Technology Readiness Level (TRL)	9 (Implementation)
Methodology	ONCRA Land Stored Carbon Protocol
Project duration	20 years: 2023-2043
Expected storage duration	100 years
Initial crediting period ¹	12 years
Surface area	9 ha
In project scope / boundary	Total Ecosystem Carbon stock (TEC)
Out of scope	Harvest / construction stored carbon (CSC)
Potential net CO ₂ removal	3230 tCO ₂ e
Potential 12 years	1938
Holding pool, excluded in potential	20%
CRCs transferred to holding pool	388 CRCs
CRCs issued	1550 CRCs
Certificate ids	BBL-L-011-0.001 – BBL-L-011-1.550
Data repository	https://oncra.org/bbl-l-011/
Final legal ownership	Alenbambu LDA
Date of approval and issuance	12/02/2024

¹ Initial crediting period: 12 years. The units for the first 12 years are directly available. If verification confirms actual growth, the remaining units (to be sequestered in the following 8 years) will also be available for pre-purchase.



Annex I. Project Validation Certificate

Empirical crediting base

This document summarises the projection model and outcomes following Oncra empirical crediting principles. These principles state a strict application of a measuring, verification and

reporting (MRV) process to test the model pathways against real world data points from actual measurements, and are based on the Oncra Guidelines as effective at time of issuance at <https://oncra.org/guidelines/>.

Scope

In scope are Above Ground (AGB), Below Ground and Soil Organic Carbon (SOC), following CDM AR-ACM0003. Out of the current scope of this statement are storage in produce and construction materials, as well as related avoided emissions due to displacement. Project boundaries follow the Land Stored Carbon protocol, and a fixed 20% project emissions margin has been derived from an LCA estimate which includes fertiliser, irrigation, other farming practices and project management. The project timeline is set at 20 years, with credits issued for the first 12 years.

General description

Bamboologic - Vidigueira, represented by the final owner Alenbambu LDA, is setting up a 9 hectare bamboo farm in Vidigueira, Portugal. The project includes the increase in carbon storage in the ecosystem (Total Ecosystem Carbon, or TEC), compared to the baseline TEC. As it grows, the bamboo system can increase the amount of carbon sequestered in the soil. In addition, carbon is stored in biomass that grows below-ground (the roots) and in the above-ground growing biomass (e.g. in woody material).

As a reference system, full-grown bamboo systems from references (King et al., 2021; Yuen et al., 2017) were used for the SOC and AGB data (see KML file in 'Maps & Ownership folder'). For above ground biomass, the ESA Sentinel dataset was used from 2010-2020 for the baseline AGB data.

Double counting and Additionality

As bamboo systems are not currently in the national climate policies (NDC's) for Portugal, and no government afforestation plans are known at time of analysis, additionality is likely and double counting is unlikely. Furthermore, the carbon stored on the land previous to the start of the project has been included in the baseline.

Permanence

The remover has declared a minimum duty of care of 20 years. The remover does not intend to sell the land and will keep regenerating the land over this period. If the remover does have to sell the land due to unforeseen circumstances, they would search for people that would



continue the project. Additionally, given expected policy developments due to climate impacts, a carbon storage timespan of 100 years is estimated with reasonable assurance.

Diversity provision

A high level of diversity is provided by the bamboo system, as it is a habitat for different plants, mushrooms, insects and animals (e.g. insects, soil fauna and birds). For these reasons, no extra diversity holding pool has been established.

Risk mitigation

Oncra and remover agree on this assessment, as well as on the provisions to take if measurements do not align with the trend of these model projections. These provisions include a 20% holding pool.

Leakage

No significant leakage is expected from the project.