



ASOCIACIÓN DE NORMALIZACIÓN Y CERTIFICACIÓN,  
S.A. de C.V.

Greenhouse Gas Validation/Verification Body accredited by ema for the sectors Power Generation and Electric Power Transactions, indicated in the letter with accreditation number **GEI 001/15**.  
Effective date: **26/06/2015** and update date **05/08/2025**.

email: [sustentabilidad@ance.org.mx](mailto:sustentabilidad@ance.org.mx) Address: Centro comercial Nuestro Bogotá: Avenue Carrera 86 # 52 a - 75, Floor 3, Suite 3291, Office 126, Bogota, Colombia.

A BUREAU VERITAS  
COMPANY

Location: Mexico City  
Date: 11/19/2025

The objective of the activity was to assess the compliance of the GHG mitigation project “**Co<sub>2</sub>Bio P2-2**” under the requirements of ISO/IEC 17029:2019 and ISO 14064-2:2019 standards, and to valid it under the principles and criteria of ISO 14064-3:2019, ISO 14065:2020, BioCarbon Standard and the methodologies: BCR0002 Quantification of GHG Emission Reductions REDD+ Projects and BCR0004 Quantification of GHG emission reductions Activities that avoid Land Use change in continental wetlands.

PROJECT ID: BCR-CO-635-14-005

Prepared by:

Fundación Cataruben

To verify that the GHG mitigation project has been developed in accordance with the requirements of:

GHG Credit Program: BioCarbon Standard  
(BCR Standard V3.2)

With a reasonable level of assurance concluding the following:

The Greenhouse Gas Emissions Reduction Project Report prepared by Fundación Cataruben, for the period from 01/01/2022 to 12/31/2024, is substantially correct and free of material discrepancies, being thus, a faithful representation of the information and emissions data referred to below:

Total amount of GHG emission reductions:

503,516.00 t CO<sub>2</sub>e

Eng. Excalibur Ernesto Acota Miranda  
VVB Specialist  
11/19/2025  
Mexico City

Eng. Joel Miguel Ramirez  
Manager of the system certification body and of the VVB  
11/19/2025  
Mexico City

THIS REPORT IS NOT VALID WITHOUT ITS VERIFICATION REPORT

Verification Statement for the

Climate Change Mitigation Project

Prepared by:

Fundación Cataruben

Verification Report

Asociación de Normalización y Certificación, S.A. de C.V., (ANCE), through its Validation and Verification Body of Emissions Statements and Greenhouse Gases Projects (OVV-GEI), with address at Eje Lázaro Cárdenas, No. 869, Frac. 3, Col. Nueva Industrial Vallejo, Delegation: Gustavo A. Madero, Mexico City, C.P. 07700, was contracted by Fundación Cataruben., located at Cra. 20 N° 36-04, Yopal, Colombia, in order to verify the scope of the Forest Carbon Capture Project under the BioCarbon Registry REDD+ Standard, the verification was conducted with a reasonable assurance level of 95% considering the operations for the period covered from January 1<sup>st</sup>, 2022, to December 31<sup>st</sup>, 2024.

This statement has been prepared for anyone who may be the ultimate interested party.

Project Title	CO <sub>2</sub> Bio P2-2
Project ID	BCR-CO-635-14-005
Project holder	Fundación Cataruben
Grouped project	Do not apply
Version Number and date of the Project Document to which this report applies	Version 2.3 May 10, 2025
Project Type/Project activity	AFOLU Sector
Applied methodology	BCR0002_Quantification of GHG Emission Reductions. REDD+ Projects, version 3.1, 15 September 2022 and BCR0004_Quantification of GHG emission reductions. Activities that avoid Land Use change in continental wetlands, version 2.0, May 23, 2022.
Project location	Colombia, region Orinoquía: Departamento Arauca: Arauca, Cravo Norte, Puerto Rondón y Tame. Departamento Casanare: Hato, Corozal, Paz de Ariporo, Orocué, Pore, San Luis de Palenque, Trinidad y Yopal
Project starting date	15/01/2018
Monitoring period	Second referring to the period 01/01/ 2022- 31/12/2024
Total amount of GHG emission reduction/removals	Total reductions: 503,516.00 t CO <sub>2</sub> e Annual average: 167,839 t CO <sub>2</sub> e/year
Contribution to Sustainable Development Goals	SDG 6: Water and Sanitation SDG 13: Climate Action SDG 15: Life of Terrestrial Ecosystems
Version and date of issue	Version 3.0 - 19/11/2025
Work carried out by	Chief Verifier: Excalibur Acosta Miranda Verifier: Nancy Adriana Barrera Gómez Independent Reviewer: Janai Monserrat Hernández
Approved by	Joel Miguel Ramírez

1. Scope

The scope of the project verification complies with BCR Standard, Version 3.2, September 15, 2022 /LXXII/, and is based on the criteria of ISO 14064-2:2019(es) and the standards, procedures, methodologies, and methodological tools of the BioCarbon Standard.

This statement has been prepared for any party who may ultimately be interested.

2. Objective

The main objective of the verification audit was to evaluate the controls related to the information system and data linked to the CO2 emission reductions associated with the project. This assessment was carried out by reviewing the information submitted during the documentation and on-site activities, with the purpose of:

- Confirming that the project, its activities, methods, and procedures, as described in the CO<sub>2</sub>Bio P2-2 Monitoring Report /II/ and its corresponding annexes, comply with the criteria established in section 3.1 of this report.
- Verify that the information related to the 120 project properties, as well as the application, calculation, and support mentioned in the BCR methodologies: BCR0002 and BCR0004, as well as the level of activities implemented during the 2022-2024 monitoring period, contribution of applicable SDGs, associated safeguards, environmental and socioeconomic aspects.
- Ensure that the information on reported GHG emission reductions consistently demonstrates the veracity of those reductions.
- Ensure that the Monitoring Plan, including its implementation, data collection, methods, frequency, and consistency with the applicable methodology and program requirements, is carried out properly.

3. Verification criteria

The verification process is carried out in accordance with ISO standards (ISO 14064-2:2019 and ISO 14064-3:2019), as well as the requirements of the Biocarbon Certification Program, considering the following criteria:



ISO STANDARDS:

- ISO 14064-2:2019 /CXXX/
- ISO 14064-3:2019 /CXXXI/

BCR PROGRAM:

- BIOCARBON CERT. 2023. BCR STANDARD. Version 3.2. September 23, 2023 /LXXII/.
- BCR0002\_Quantification of GHG Emission Reductions. REDD+ Projects, Version 3.1, Sep 15/2022 /V/.
- BCR0004\_Quantification of GHG emission reductions. Activities that avoid Land Use change in continental wetlands Version 2.0, Jun 23/2022 /VI/.
- BIOCARBON CERT. 2025. Validation and Verification Manual. GHG Projects. Version 3.0. June 13, 2025 /CIX/.
- Standard Operating Procedures (SOP), Version 2.0 | May 26, 2025 /CXXXIII/.
- Identification of a baseline scenario and demonstration of additionality, Version 1.0 | July 25, 2025 /LXX/.
- Avoidance of double counting (ADC), Version 3.0 | April 7, 2025 /XCIV/.
- Sustainable Development Safeguards SDSs Tool, Version 2.0, June 2025, Annex A and the Excel /CXXXIV/.
- Tool to demonstrate compliance with the REDD+ safeguards, Version 1.1 | January 26, 2023 /CXXXV/.
- Conservative approach and uncertainty management, Version 1.0| July 23, 2025 /CXXXVI/.
- Permanence and risk management Version 2.0 | June 3, 2025 /LXXI/.
- Monitoring, Reporting and Verification (MRV), Version 2.0 | June 23, 2025 /LXXIII/.

LEGAL REGULATIONS:

- Law 2294 of 2023. Issuing the National Development Plan 2022-2026 /CXXIX/.
- Updated NDC, 2020 /CX/.
- Resolution 1447 of 2018 /CXXX/.
- Decree 926 of 2017 /CVII/.
- Social and Environmental Safeguards for REDD+ in Colombia, 2018 /CXII/.
- Resolution 529/XCVIII/ of 2020 and Resolution 471 of 2020 /XCIX/.
- Political Constitution, Law 388 of 1997 /C/.

Verification process

The project information specifies that the verified data is historical, derived from the prior validation of the monitoring document and the subsequent verification and validation of post-registration changes in specific the document (BCR\_Monitoring Report CO<sub>2</sub>Bio P2-2\_Verificación\_2). During this process, the audit team independently reproduced ex-post calculations using the emissions monitoring spreadsheet (/XVII/), confirming the correct application of equations from methodologies BCR0002 v3.1 (/V/) for REDD+ and BCR0004 v2.0 (/VI/) for wetlands. Activity data verification was conducted through geospatial analysis in QGIS (/L/), validating emission factors of 575.74 tCO<sub>2</sub>e/ha for forests and 21.28–151.63 tCO<sub>2</sub>e/ha for wetlands according to herbaceous and dispersed strata.

During the verification process, nine findings—comprising two Requests for Clarification and seven Requests for Corrective Action—were identified and addressed across three review rounds. Following the implementation of corrective measures and submission of supporting evidence by the project owner, all findings were satisfactorily resolved. No residual limitations or qualifications affecting the verified GHG statement were identified.

These verifications demonstrated complete consistency without material discrepancies between the project’s calculations and the audit team’s independent results.

Conclusion

A. Conclusion regarding the traceability of information associated with GHG emissions estimates

The traceability of information associated with the organisation's GHG emissions was verified, from the source of the activity data to the final emissions, based on the aforementioned supporting evidence provided by the project owner.

B. Verification conclusions

The GHG Verification Body (OC VV-GEI ANCE) issues a positive verification opinion on the reported greenhouse gas (GHG) emission reductions of 503,516.00 tCO<sub>2</sub>e for the monitoring period from January 1, 2022, to December 31, 2024.

The re-validation process confirms that the project’s ex-ante analysis of GHG reductions was conducted accurately, transparently, and conservatively. In addition, the project demonstrated:

- Effective implementation of REDD+ and wetland conservation activities.
- Full compliance with socio-environmental safeguards, including the 7 Cancun Safeguards and the 15 National Interpretation Safeguards for REDD+ in Colombia.
- The project delivered measurable contributions to the Sustainable Development Goals (SDGs), specifically SDG 6 (Clean Water and Sanitation), SDG 13 (Climate Action), and SDG 15 (Life on Land). These achievements reflect a strong commitment to environmental stewardship, climate resilience, and biodiversity conservation, complemented by additional benefits that enhance its overall social and environmental impact.
- Project activities are closely aligned with the *special Orchid* category of co-benefits, emphasizing biodiversity protection, community development, gender equity, and capacity building. This positioning establishes the project as a benchmark for integrated and socially inclusive climate initiatives

Furthermore, the project successfully demonstrated that:

- It is not registered under other GHG programs or standards.
- There are no overlaps with other GHG projects.

Finally, the proponent updated the Monitoring Report to version 2.3, which was successfully revalidated due to post-registration changes. The most significant modification was the removal of four properties, resulting in an adjustment of the eligible area and a recalculation of the baseline and emission reductions for previous and current periods.



C. Recommendations from Asociación de Normalización y Certificación, S.A. de C.V.

Based on the quantification and reporting requirements established in ISO 14064-3:2019 and the GHG Crediting Program: BioCarbon Standard, and considering the findings identified during the verification process, the following recommendations are issued:

- Conduct periodic reviews of all data related to GHG emissions calculations to prevent errors and ensure accuracy.
- Although all non-conformities were closed, it is essential to maintain ongoing follow-up on the implementation of mitigation measures and supporting evidence for subsequent verification periods.

Mexico City, Mexico, November 19, 2025.



Eng. Excalibur Ernesto Acota Miranda  
VVB Specialist

Eng. Joel Miguel Ramirez  
Manager of the system certification body and of  
the VVB

On behalf of the Asociación de Normalización y Certificación, S.A. de C.V. and the Greenhouse Gas Validation/Verification Body accredited by ema for the sectors of **Energy Generation and Electricity Transactions, General Manufacturing (physical or chemical transformation of materials and substances into new products), Oil and gas exploration, extraction, production, refining, and distribution by pipeline, including petrochemicals, Metal production, Mining and mineral production, Pulp, paper, and printing, Chemical production, Transport, Agriculture, forestry, and other land uses (AFOLU/ASOUT), and General**, as indicated in the document with accreditation number **GEI 001/15**. Effective date: **26/06/2015**.  
Av. Lázaro Cárdenas No. 869, Fracc. 3, Col. Nueva Industrial Vallejo, C.P. 07700, Mexico, Mexico City  
Telephone numbers: (55) 57 47 45 50 Ext. 4666 y 4671  
emails: [Joel.ramirez@bureauveritas.com](mailto:Joel.ramirez@bureauveritas.com); [janaimonserrat.hernandez@bureauveritas.com](mailto:janaimonserrat.hernandez@bureauveritas.com); [lourdes.romerovelazquez@bureauveritas.com](mailto:lourdes.romerovelazquez@bureauveritas.com); [nancy.barrera@bureauveritas.com](mailto:nancy.barrera@bureauveritas.com).

This document is subject to the terms and conditions described below:

The Asociación de Normalización y Certificación, S.A. de C.V. (ANCE), its branches and respective directors or employees assume no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information provided in this document or any other medium, unless that person has signed a contract with ANCE for the delivery of this information. In which case, any liability and obligation shall apply exclusively under the terms and conditions set forth in that contract.

Considering the reasonable level of assurance under which the verification process for the GHG Emissions Inventory Report covered by this statement was carried out, and on the premise that no third-party assessment process is absolute, it is possible that some findings may have gone undetected. Furthermore, the verification process under this level of assurance does not have the power to identify all existing weaknesses in the process of preparing the GHG Emissions Inventory Report insofar as these relate to the requirements of ISO 14064-3:2019. This is because the verification was not carried out continuously throughout the period reported by the organisation. Finally, any projection of data to future periods is likely to contain inconsistencies due to the situations described above.