JOINT VALIDATION & VERIFICATION REPORT

Proyecto Forestal Alcaraván Orinoquía

PROJECT ID BCR-CO-CO-14-003

Versión 4.1 | febrero 2024

Validation & Verification Report	
Project Title	*Proyecto Forestal Alcaraván Orinoquía*
Project ID	*BCR-CO-CO-14-003*
Project holder	*CO2CERO S.A.S*
Project Type/Project activity	*Activities in the AFOLU sector, other than REDD+*
Grouped project	*It's not a grouped project*
Version number of the Project Document to which this report applies	*Project document V 9* *03/05/2024* *Monitoring Report V9* *03/05/2024*
Applied methodology	*"Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024"* *BioCarbon Registry. 2023. BCR Standard. From differentiated responsibility to common responsibility version 3.2 of September 23, 2023.*
Project location	*Municipalities of the Orinoquia biome, including Meta, and Vichada.* *It is currently located in:* *Puerto Lleras and Puerto Gaitán in Meta.* *Cumaribo in Vichada, Colombia*
Project starting date	*11/04/2018*

Quantification period of GHG emissions reductions/removals	*The duration of the project will be 20 years,* *11/04/2018 to 10/04/2037*
Estimated total and mean annual amount of GHG emission reductions/removals	*The net removal of the project over its credit life is 517,005 tCO_2e and annual removal of 25,850 tCO2e/year.*
Monitoring period	*1st Monitoring Period* *11/04/2018 to 02/12/2022*
Total amount of GHG emission reductions/removals	*The total removal during the monitoring period is 33,030 tCO_2e and annual removal of 6,606 tCO_2e/year.*
Contribution to Sustainable Development Goals	***SDG 1****. End poverty in all its forms everywhere.* ***SDG 2.*** *End hunger, achieve food security and improved nutrition and promote sustainable agriculture.* ***SDG 8.*** *Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all.* ***SDG 12.*** *Ensure sustainable consumption and production patterns.* ***SDG 13.*** *Take urgent action to combat climate change and its impacts.* ***SDG 15.*** *Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss*
Special category, related to co-benefits	*N/A*
Version and date of issue	*26/03/2023 V1* *04/08/2023 V3* *05/09/2023 V4* *14/02/2024 V4.1* *01/04/2024 V4.2*

	08/05/2024 V4.3 *02/07/2024 V4.4*
Work carried out by	*Laura Maria Garcia – Leader auditor* *Victor Nieto - Technical Reviewer*
Approved by	 *Martha Ivonne Corredor Rodríguez* *Validation and verification Manager*

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1 Executive summary

The Proyecto Forestal Alcaraván Orinoquía is a project developed by CO2CERO S.A.S. that aims to develop GHG mitigation actions over 20 years (starting in 2018) through reforestation activities and increase carbon stocks. The project areas are in the departments of Meta and Vichada, in a total of three (3) municipalities that correspond to Puerto Lleras and Puerto Gaitán in Meta and Cumaribo in Vichada.

At the time of validation and first verification, the project has eight (8) participants who have established commercial contracts with CO2CERO S.A.S. and are recognized as forest producers in charge of establishing, maintaining, and strengthening forest plantation covers with which they seek to improve the socioeconomic and environmental perspective through the commercialization of wood for the industrial sector and the removal of GHG emissions in the atmosphere.

The project includes the establishment of plantations of Eucalyptus pellita, Acacia mangium and Pinus caribaea, with areas of 393.02 ha, 463.33 and 238.08 ha, respectively.

The project is projected to remove 517,005 tCO2e during its credit period, with an annual average of 25,850 tCO2e. For the current verification period, in 1,094.43 hectares identified as eligible (planted between 2018 and 2021) a total removal of 33,030 tCO2e was presented.

ICONTEC has satisfactorily assessed compliance with the scope and criteria of validation and verification, level of assurance, methodological framework, and potential risks in the reporting of information, through an Audit Plan (Annex 2) and a Sampling Plan (section 2). In this sense, the project complies with the general requirements described in section 10 of the BCR Standard, version 3.2 of September 23, 20232:

*- **Sectoral scope:** The project is part of Sector 14 Land Use - Forest Soils, Afforestation and Reforestation (AFOLU). Specifically, it includes GHG removal activities.*

*- **Type of project:** GHG removal activities by increasing the stock of carbon derived from commercial forestry activities (forest plantations). The project areas do not correspond to the category of forest or natural vegetation cover other than forest at the start of the project activities, or five years prior to the project start date.*

*- **Project location:** Department of Meta and Vichada, Colombia.*

*- **Project scale:** N/A, as GHG projects classified as GHG removal activities are not subdivided into categories related to project scale*

*- **Start date:** 04/11/2018. The start date of the removal activities was properly defined, so that it is defined within five (5) years prior to the start of the validation and corresponds to the start of the activities that will result in effective GHG removals.*

- ***Duration and Quantification Period:*** *04/11/2018 to 02/12/2022 (20 years). It complies with the fact that the quantification period is framed in a minimum of 20 years and a maximum of 40 years.*

- ***Additionality:*** *Detail in section 3.4.5. The project has determined additionality through the application of the guidelines of "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024" and the Biocarbon Guidelines Baseline and Additionality. GHG Project generate Verified Carbon Credits (VCC) that represent emissions reductions, avoidance, or removals that are additional V1.2 of September 27, 2023.*

- ***Compliance with applicable legislation:*** *Development of an environmental legal matrix. The project complies with applicable legislation and has a document management mechanism that incorporates the relevant legislation and regulations.*

- ***Adaptation to climate change:*** *The implementation of activities derived from commercial forest plantations are configured as actions to reduce current and future climate impacts derived from climate change, implementing forest production systems, with improvements to biodiversity.*

2 Objective, scope and criteria

Giving scope to the provisions of the benchmark, which constitutes the requirements for the audit, its objectives are the following:

- *Assess the likelihood that the implementation of the planned GHG mitigation project will result in the increases in GHG removals declared by the project owner.*
- *Validate compliance with the regulatory requirements and those established by the program and the benchmark to determine the feasibility of implementing the GHG mitigation project.*
- *Verify compliance in the implementation of mitigation project activities, including those associated with the methodology selected for the project.*
- *Evaluate and verify compliance with the principles of the monitoring, verification, and reporting system necessary to comply with current legislation.*
- *Provide an independent third-party opinion that has evaluated the implementation and reduction/removal of GHG emissions from this project registered under BCR BioCarbon Registry*
- *Verify compliance in the implementation of mitigation project activities, including those associated with the methodology selected for the project.*
- *Provide confidence to different stakeholders in the quality of the project and its ability to achieve certified GHG reductions/removals.*
- *Assess compliance with applicable verification criteria, including the principles and requirements of the BCR Standard, version 3.2 of September 23, 2023.*

The scope of validation and verification involves an objective review to determinate that the GHG Project meets the following criteria:

NTC ISO Standards:

1. *ISO 14064-2; 2019 "Greenhouse Gases - Specification with Project-Level Guidance for Quantifying, Monitoring and Reporting Emission Reductions or Increases in Greenhouse Gas Removals."*
2. *ISO 14064-3; 2019 "Greenhouse gases. Part 3: Specification with guidance, for the validation and verification of greenhouse gas claims"*
3. *ISO 14064-5; 2020 "Greenhouse Gases — Requirements for Bodies Conducting Greenhouse Gas Validation and Verification, for Use in Accreditation or Other Forms of Recognition."*

Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024, and BCR Standard. From differentiated responsibility to common responsibility version 3.2 of September 23,2023.

- *GHG Project Validation and Verification Manual. Version 2.1 as of February 13, 202*
- *BCR Tool. Avoiding double counting (ADC). BCR avoid double counting of emissions reductions/removals. Biocarbon Registry. Version 1.0. March 9, 2023.*
- *BCR Tool. Monitoring, reporting and verification (MRV). BCR carbon credits are quantified, monitored, reported, and verified. Biocarbon Registry. Version 1.0. February 13, 2023.*
- *No Net Harm Environmental and Social Safeguards (NNH). BCR Tool. BCR project activities do not cause any net-harm to the environment or to local communities and society in general. Version 1.0. March 7, 2023.*
- *Biocarbon Guidelines. Baseline and Additionality. GHG Projects generate Verified Carbon Credits (VCC) that represent emissions reductions, avoidance, or removals that are additional. Version 1.2. September 27, 2023.*
- *Permanence and Risk Management. BCR Tool. BCR Project holder take actions to ensure the Project benefits are maintained over time. Version 1.0. March 7, 2023.*
- *BCR TOOL. SUSTAINABLE DEVELOPMENT GOALS (SDG). Version 1.0. June 2023.*
- *BCR Guidance Methodologies Development and approval. Version 1.1. January 30, 2024*

Specific national regulations on carbon markets:

- *Resolution 1447 of 2018 of the Ministry of Environment and Sustainable Development*

Thus, the scope of the project validation and verification audit involves:

1. *Validate and verify the projected GHG emission reductions during the project's credit period (11/04/2018 to 10/04/2037) and those reported during the monitoring period (11/04/2018 to 02/12/2022).*
2. *Validate and verify compliance with the provisions of the BCR Standards and any others that may be applicable, considering the limits of the GHG project, the reference scenario and its baseline scenarios, criteria of additionality, ownership and rights of carbon, co-benefits, consultation with stakeholders, environmental and social aspects, among others.*

Assess the project's uncertainty, conservative approach, and mitigation objectives. ICONTEC conducts its audits in accordance with its code of ethics, regulations, and internal procedures to carry out validation and verification audits of GHG mitigation projects that in turn are consistent with the requirements established in the corresponding GHG program. Likewise, ICONTEC focuses on the identification of risks related to the generation of GHG removals, as well as their verification and mitigation during its audits.

ICONTEC revised the general validation and verification requirements of the BioCarbon Registry, considering the following:

- *The start of the validation process for GHG projects must take place no later than 5 years after the start date of the project. In this case, the project validation process started on 15/12/2022.*
- *Verifications of GHG projects can be annual but must be carried out at least once every 3 years. In the case of the project, it does not apply because it is in the validation stage and in the first verification.*

The verification is not intended to provide consulting services to the person responsible for or owner of the GHG mitigation project. However, requests for clarification or requests for corrective action or requests for future action set out in the verification exercise may have provided clarifications on the requirements to improve project implementation.

3 Validation and verification planning

The audit was conducted to provide a reasonable level of assurance of compliance with the criteria defined within the scope. Based on the audit findings, a positive assessment statement provides reasonable assurance that the project complies with the criteria set out in Section 2.2 and the GHG statement is materially correct and credible.

The nature and extent of the validation activities have been shaped according to sections 10.5 of the BCR validation and verification manual.

The level of assurance agreed with the client to identify possible error, omissions underestimations or overestimations in the validation and verification process was set at

95%. The errors that were found in the spread sheets were corrected, those errors never exceeded 5% error, with respect to the previous emission reduction/removals. Therefore, it is assured that the level of assurance is not less than 95%, in accordance with the BCR standard.

A thorough review of 100% of the documents provided by the project proponent was carried out, along with interviews with stakeholders. The risk assessment indicated a low probability of finding material misstatements or non-compliance with criteria. The consistency of the baseline of the Greenhouse Gas (GHG) Mitigation Sectoral Project with current national regulations and/or applied methodology was also examined, confirming that the assessed values for the Reductions Activity align with national reports.

The material discrepancy of the data supporting the baseline of the GHG mitigation Sector Project, and the estimated GHG emission reductions or removals may be up to +- 5%. The calculations were evaluated and errors in the calculations were corrected, those errors were never greater than 5%, compared to the previous emission reductions/removals, so ICONTEC assured that there was no material discrepancy in the calculation data.

The quantification of the mitigation results compared to the validated baseline, in accordance with the provisions of the national regulations in force and/or the methodology applied, as appropriate and Co-benefits assessment and indicators related to the sustainable development objectives.

Considering the BCR standard, issues related to the document management and control system were highlighted and resolved during the different stages of audit findings and errors were detected in the presentation of current information in the PD and in the MR corrected, ensuring that the information presented in the PDs is accurate.

The validation process through document review and the in-situ audit ensured that there were no quantitative and qualitative discrepancies in a material way that would affect the emission reduction/removals calculation, in the sense of overestimating the calculation data.

3.1 Validation and verification plan

The validation and verification audit corresponds to an objective, systematic and documented evaluation of a GHG project with respect to compliance with established criteria, seeking to demonstrate that it conforms to the requirements specified in national standards and BCR methodological documents. Therefore, the project was assessed to meet the criteria described in Section 2 of this document. Validation and verification were conducted through a combination of document review, interviews with relevant personnel, and a site visit, as discussed in Section 4 of this report. Conclusions were issued by ICONTEC to ensure that the project fully complied with all requirements. The methodology of the sampling plan was derived from the evaluation of all the above-mentioned criteria and from the documentation submitted by the project proponent. The modifications applied to the

validation and verification audit plan were made based on the observed conditions that allowed the detection of the processes with the highest risk of material discrepancy.

The verification audit corresponds to an objective evaluation of the removal of emissions that occur because of the activities carried out during the evaluation period and in accordance with the requirements established by ICONTEC for the validation and verification of Mitigation Projects and ISO 14064-3; 2019.

The likelihood that the implementation of the planned GHG project will result in the GHG removals declared by the project manager will be assessed, considering the following:

1. Documentary review of the monitoring report and the registered monitoring plan

2. Interviews with those responsible for the implementation of the GHG Project, as well as those responsible for drafting the GHG Project documents submitted for verification.

3. Solution to the detected findings and the issuance of a report and final verification opinion.

It is ICONTEC's responsibility to establish an independent opinion on the verification of GHG removal from the GHG Project and to approve a baseline scenario for the monitoring period.

ICONTEC uses a risk-based approach focusing on understanding the risks associated with the reporting of GHG removal data and the controls in place to mitigate them. ICONTEC's verification process includes evidence-based testing of all relevant evidence for the amounts and declarations of GHG removals from the GHG Project and calculations of such removals for the reporting period.

The verification team used a risk analysis-based approach to assess the project against the rules of the BCR Standard, version 3.2 of September 23, 2023, including the criteria defined in section 2 of this document. It identified potential areas of risk based on a review of documents and information provided by the project developer.

The verification process included the following objective independent activities:

- *Selecting a Verification Team*

- *Conduct an internal review of Conflicts of Interest (NCI)*

- *Conduct an initial meeting with the Project Developer to present to the teams as in Annex 3 of this document (Audit Plan).*

- *Review the Objectives and processes of the verification, the requirements of BIOCARBON REGISTRY and for the confirmation of the service agenda and the notification of the same.*

- *Review the Monitoring Report with the requirements of the Standard,*

- *Develop a verification plan and a sampling plan,*

- *Conduct a risk-based review to ensure that the project complies with the monitoring requirements of the BIOCARBON REGISTRY rules, as well as the applicability conditions of the methodology "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024"*

- *Review documents associated with the monitoring period for which emission reductions/removals were issued.*

- *Carry out the on-site visit.*

- *Review the accuracy of emission removals for the monitoring period.*

- *Submit findings and non-conformities, requests for additional documentation, and requests for clarification through the findings form (Annex 2).*

- *Conduct an internal review*

- *Issue the verification report*

The audit plan was developed in accordance with Annex 3, in accordance with the information verified in the initial documentary review and agreed with the client for the on-site evaluation, seeking to optimize processes.

Table 1. Service notification.

Nombre del servicio	Proyecto Forestal Alcaraván Orinoquía - A/R				
Norma	ISO 14064-2:2019	**Servicio**	Validación y Verificación		
Estandar	Biocarbon Registry				
Revisión documental y elaboración del plan de auditoria	3.0	**Fecha Inicial Servicio**	15/12/2022	**Fecha Final Servicio**	17/12/2022
Evaluación en el sitio	5.5		16/01/2023		21/01/2023
Elaboración de informe de hallazgos	1.5		06/02/2023		07/02/2023
Elaboración informe Draft	1.5		22/03/2023		23/03/2023
Revisión Técnica 1	2.0		30/03/2023		31/03/2023
Preparación del Informe Final	1.5		12/04/2023		13/04/2023
Revisión técnica 2	1.5		14/04/2023		15/04/2024

3.2 Audit team.

The project validation and verification process has been carried out in accordance with the requirements set out in ISO 14064-3;2019, "Greenhouse gases. Part 3: Specification with guidance, for the validation and verification of greenhouse gas claims".

Table 2. Audit team.

Full name(s)	*Role(s) or responsibility(s)*	*Type of activity(s) carried out*
Laura María García	*Lead Auditor*	*Documentary Review* *On-site visit* *Validations and Verification Report* *Declarations*
Víctor Nieto	*Technical Reviewer*	*Technical Review 1 and 2*
Camilo Carvajal	*Technical Unit Leader*	*Review of final documents*
Martha Corredor	*Validation & Verification Manager*	*Final Documentation Approval*

Full name(s)	Role(s) or responsibility(s)	Type of activity(s) carried out
		Signatures, declarations

To comply with all the compliance required for verification, the support of the competencies of the verification team sufficient in accordance with the established indications, ICONTEC has as an internal document the procedure PE-PS-013 "SPECIFIC VALIDATION AND VERIFICATION PROCEDURE FOR GHG MITIGATION PROJECTS" V6. Where chapter 5.2.1 Designation of the audit and technical review teams is complied with, everything related to the competence that is also composed of the indications established in P-CP-001 PROCEDURE FOR QUALIFYING AND/OR AUTHORIZING PERSONNEL IN TECHNICAL SERVICES, as well as the relevant requirements for the project (technical requirements, environmental, legal, and financial aspects of the territory where the GHG mitigation project is being developed. On the other hand, the competency requirements for validation and verification services for GHG mitigation projects are established in specification E-PS-114 "QUALIFICATION REQUIREMENTS FOR VALIDATION AND VERIFICATION SERVICES FOR GHG MITIGATION PROJECTS".

To determine technical expertise in a technical area for a specific methodology, document F-PS-625 "SERVICE BASE TECHNICAL UNIT VALIDATION AND VERIFICATION" is used to verify experience and competence. The technical validation and verification unit is responsible for communicating via email to the Qualification Professional Leader and Qualification Professional, new training requirements required by professionals to guarantee their competence in the provision of the service. Likewise, it is responsible for identifying the training needs of professionals in the training area for the maintenance of their competence registered in the F-DH-009 "CONSOLIDATED OF PAC TRAINING NEEDS". In addition, there is the E-PS-064 specification "MONITORING THE PERFORMANCE OF VALIDATION AND VERIFICATION PROFESSIONALS" that is applied for the maintenance of competence.

Regarding compliance with the BCR Anti-Corruption Policy, ICONTEC has a conflict of interest and risk verification format, which ensures that there is no conflict of interest on the part of the members of the audit team who will provide the services of Validation/verification of GHG mitigation projects. La información pertinente de la calificación del equipo auditor se encuentra en el ANEXO 1 y 6 de este documento donde se encuentra relacionado todo el equipo auditor, junto con la tabla 35. The Statement of Fairness is in the F-GV-119 STATEMENT OF IMPARTIALITY MDL-14065 form which is attached along with the final service documents. The terms of confidentiality are given in the contract that is signed between the parties (organization and ICONTEC) in the thirteenth clause, related to the compliance of the parties with respect to this item. In addition to the provisions of the Code of Ethics, which is related to the contract of each professional with the code PO-GE-001 CODE OF ETHICS. V2.

To ensure the impartiality, confidentiality, independence, and management of the conflict of interest that is required to act and make decisions in an objective, autonomous, suitable and

reliable manner, ICONTEC has established a policy in these areas for the development of its activities. This policy considers all aspects of relations with interested parties, covering all activities not only associated with the provision of services, but also those of an operational and commercial nature. The policy can be consulted at the following e-mail address: https://www.icontec.org/wp-content/uploads/2019/12/POGE009POLTICADEIMPARCIALIDADCONFIDENCIALIDADINDEPENDENCIAYMANEJODELCONFLICTODEINTERESESVS00.pdf.

Ethics is the fundamental basis for action and the generation of trust for all ICONTEC services, and is based on developing all activities within honest, coherent, suitable, responsible, and upright parameters of conduct and behavior. The Code of Ethics seeks to materialize ICONTEC's philosophy, by establishing guiding criteria for action based on the highest principles and values of all its members and stakeholders. This Code is applied by all ICONTEC employees, bound by an employment contract, whether for a fixed term or indefinite; for the provision of services (contractors and subcontractors); and all those who, without a contractual relationship, have any type of relationship with ICONTEC, under any modality (members of the table of Directors and other collegiate bodies). Contractors and subcontractors are those natural or legal persons who at any time provide their services to ICONTEC or on its behalf.

As a mechanism to safeguard impartiality, the ICONTEC Table of Directors established an Impartiality Committee as an advisory body to deal with issues related to Impartiality Risk Management. This initiative responds to the interest of this collegiate body to ensure trust and transparency in the provision of validation and verification services. The composition of the Committee considers the participation of external and independent people, who attend pro bono and on their own behalf or on behalf of an entity associated with the interest groups related to the services provided by the institution.

ICONTEC has a procedure in place to identify, analyze, evaluate, treat, monitor, and document risks related to impartiality and potential conflicts of interest in the provision of validation and verification services. When threats to impartiality are identified, ICONTEC documents and manages control activities to eliminate or minimize such threats.

To ensure that there is no conflict of interest to participate in conformity assessment activities, ICONTEC does not assign professionals who declare a conflict of interest with project participants, familiarity, affinity, or consulting activities related to the services. If an ICONTEC professional has been part of such activities, this professional may not provide services to that organization for at least two years following the end of the activity. Prior to each validation and verification service for GHG mitigation projects, professionals must declare their potential conflicts of interest using the F-GV-119 IMPARTIALITY STATEMENT CDM-14065 declaration of impartiality form. As evidence of the validator/verifier's statement of this project that no conflict of interest is presented.

ICONTEC is responsible for and retains authority for its decisions concerning its validation and verification opinions, its certification statements of greenhouse gas mitigation projects

or the declaration of its reductions/removals and its opinions on GHG inventories. ICONTEC does not outsource the decisions, opinions, and declarations of the conformity assessment.

ICONTEC assesses the risks resulting from its validation and verification activities and has taken appropriate provisions to cover the legal liabilities resulting from its operations in each of its fields of activity and geographical areas in which it operates.

In this regard, ICONTEC has taken the contractual and extra-contractual civil liability insurance policy identified LRCG-74392504-1 with the insurer Zurich Colombia Seguros S.A., in force until December 31, 2023, for an amount of up to COP $3,000,000,000. Likewise, it has the civil liability insurance policy for errors and omissions with the same insurer, policy EOFF-74371531-1 valid until December 31, 2023, with coverage up to USD $5,000,000.

3.3 Level of assurance and materiality

In compliance with the BCR Standard, version 3.2 of September 23, 2023, materiality is the concept that individual or cumulative errors, omissions and misrepresentations could affect the GHG statement and influence the decisions of intended users. ICONTEC has carried out a strategic analysis that has allowed it, among other things, to execute an evidence collection plan in accordance with the requirements of the ISO NTC ISO14064-3;2019 and BCR Standard, version 3.2 of September 23, 2023. Considering the review, validation, verification, and relevance of all the following documentation:

- *GHG Project Document*
- *Monitoring report*
- *Spreadsheets*
- *Interviews conducted in the field with participants.*
- *Data Sources for Removal Calculation*
- *Measurement Logs*
- *Map Supports for Eligibility*
- *Baseline, Leaks and Removals*
- *Additionality*

According to sections 11 a) to e) of the BCR validation and verification manual. For all cases, the following criteria have been considered:

a) Thus, it is confirmed that this evaluation exercise has a reasonable level of assurance in accordance with what was agreed in the contract. Where, it is confirmed that this evaluation exercise has an assurance level of 95% confidence and the material discrepancy of the data that supported the baseline of the Project and the estimate of the reduction of GHG emissions was not greater than 5%, for which the information of the project was considered, its annexes, included areas and the corresponding calculations.
b) The materiality discrepancy of the data supporting the GHG mitigation Sector Project baseline and the estimated GHG emission reductions or removals may be up

to +-5%. The calculations were evaluated and errors in the calculations were corrected those errors were never greater than 5%, compared to the previous emission reductions, so ICONTEC assured that there was no material discrepancy in the calculation data.

c) *The consistency of the Sector Project baselines for GHG mitigation in accordance with current national regulations and/or methodology applied as appropriate. The values assessed for AR Activities are consistent with national reports.*
d) *The quantification of the mitigation results compared to the validated baseline, in accordance with the provisions of current national regulations and/or the methodology applied, as appropriate.*
e) *Co-benefits assessment and indicators related to the Sustainable Development Goals.*

Through the audit process, ICONTEC ensures that the GHG Mitigation Project complies with the requirements set forth in the principles established in the ISO 14064-3;2019 "Greenhouse gases. Part 3: Specification with guidance, for the validation and verification of greenhouse gas claims".

These standard details the principles and requirements for the verification of GHG inventories and projects. It describes the process and planning for GHG-related validation and verification and specifies the procedures for evaluating the organization's or project's GHG statements. Likewise, it determines whether the criteria established to estimate the variables for estimating the volume and biomass of forest cover satisfactorily comply with the reference and methodology.

Therefore, ICONTEC ensures that the GHG Mitigation Project complies with the criteria of the BCR Standard v3.2, and the guidelines of BIOCARBON REGISTRY in its methodology "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024", and BCR Standard. From differentiated responsibility to common responsibility version 3.2 of September 23, 2023."

All versions of the verification report before being sent to the customer are subject to an independent internal technical review to confirm that all verification activities have been completed in accordance with ICONTEC's procedures.

The technical review was carried out by a qualified technical review team in accordance with ICONTEC's qualification scheme to provide validation and verification services for GHG Project. In view of the above, ICONTEC has issued its conclusion regarding this verification exercise (see section 8 of this report).

Qualitatively, issues related to the document management and control system were also resolved during the audit, and errors in the reporting of current information in the PD were corrected, ensuring that the information presented in the PD and RM is accurate, as required by the BCR Standard, version 3.2 of September 23, 2023.

The validation and verification process through document review and in situ audit ensured that there were no quantitative and qualitative discrepancies in a material way that would affect the calculation of emission reductions/removals, in the sense of overestimating the calculation data or due to errors of omission of information.

3.4 Sampling plan

Through the audit process and based on the findings generated, a positive evaluation statement is issued which reasonably ensures that the project meets the criteria established in Section 1.2. Furthermore, the GHG declaration is materially correct and credible.

According to the provisions of the Specific Validation and Verification Procedure for GHG Mitigation Projects of ICONTEC, the assurance of data and information must comply with a reasonable level of confidence and in accordance with the provisions of article 44 of Resolution 1447 of 1 of August 2018 of the Ministry of Environment and Sustainable Development and the BCR Standard V3.2, so the level of assurance used in this audit was not less than 95%, that is, the maximum material discrepancy of the data accepted was 5 %.

Table 3. Level of assurance

Determinant removal	***Source of information***	***Objective reached***	***Assurance level***
Area	*Property Information (Certificates of Freedom and Tradition)*	*Land tenure assurance*	*100%*
Area	*Additionality Criteria (Tool)*	*Determination of spatial boundaries*	*100%*
Area	*Eligibility Criteria (Historical Analysis of Coverage)*	*Determination of spatial boundaries*	*100%*
Area	*On-site visit*	*Determination of spatial boundaries Status (areas of effective planting) of implementation of activities*	*100%*
Biomass	*Forest Inventory*	*Assurance of measurement records and their respective evaluation to the control and documentary quality of the data*	*100%*

Determinant removal	Source of information	Objective reached	Assurance level
		Compliance with the declared sampling error	
Reduction estimate	Ex ante and ex post spreadsheet	Assurance, quantification of GHG removals and parameters used	100%

Source: This report

The following are the sources of information of the project that complied with the defined levels of assurance and materiality:

- *Project Design Document*
- *Documentary review of primary sources (baseline and project scenario, project mapping, implementation activities, forest inventory, Forest Establishment and Management Plan, legal information, etc.)*
- *Documentary review of secondary sources (environmental legislation, official cartography, Google Earth satellite images, quantification parameters, characterization sheets of forest species, etc.)*

All versions of the validation and verification report, before being sent to the customer, are subject to an independent internal technical review to confirm that all activities have been completed in accordance with ICONTEC's procedures. The technical review was carried out by a qualified technical review team in accordance with the ICONTEC qualification scheme to provide validation and verification services for GHG mitigation projects. A total of 13 plots were visited during the site visit, which are as follows in Table 18.

Regarding the sampling determined for the plots, the materiality of 5% and the assurance of 95% were complied with, given that of the 139 plots a few 13 were visited, which is equivalent to 9.35% of the total of them, visited then those indicated in and considering, accessibility, times and travel during on site visit.

Accordingly, the sampling plan should ensure that the level of assurance of validation and verification of the GHG mitigation Sector Project should not be less than 95%. The errors that were found in the spreadsheets were corrected, those errors never exceeded 5% error, with respect to the previous emission reduction. Therefore, it is assured that the level of assurance is not less than 95%.

In the Table 4, the risks and treatments that may occur within the audit process in its different phases and that may result in errors in the estimation of the carbon calculation are discriminated, this assessment was considered to define the audit sampling plan following the indications of PE-PS-013 Specific validation and verification procedure for GHG mitigation projects.

Table 4. Risk assessment in the audit process.

No.	Risks that may lead to errors, omissions and potential distortions	Risk Assessment		Risk control system in the verification plan and/or in the sampling or evidence collection plan
		Risk Level	Justification	
Control Risks:				
1	Human error in quantifying emissions. Inaccuracy: Double Counting, Significant Manual Transfer of Key Data, and Inappropriate Use of Emission Factors	Middle	Monitoring data related to emission factors is downloaded from traceable and official sources	100% of the data indicated in the spreadsheet is cross-checked with the information available in the data source and in the information provided by the organization.
2	Lack of full data coverage. Exclusion of significant sources, incorrectly defined limits, leakage effects.	High	Lack of knowledge of the requirements of the methodology related to its applicability.	It is ensured that all data from the verification period was considered within the defined limits of the project.
3.	Inconsistency: lack of documentation of methodological changes in the calculation of GHG emissions or removals in relation to those used in previous years.	Middle	Lack of knowledge of the requirements of the quantification methodology and/or the requirements of the certification program.	Within the sampling plan, the review of the changes presented that affect the quantification of removals or reductions of GHG emissions is carried out
Inherent Risk:				
4.	Reliance on a technology platform designed for data capture, which can result in omissions and errors in the transfer of raw or raw data to the emissions reduction or removal excel spreadsheet.	Middle	Failures in data transfer quality control due to an unclear QA/QC procedure.	The project proponent demonstrates how to quantify the data, capture and capture, and the auditor verifies through interviews with the project developer, to verify compliance with the different procedures. The project proponent must demonstrate how the data transfer is carried out and how it cross-checks. The auditor must establish in the audit plan a space for interviews with the personnel responsible for recording data and verifying it by complying with its procedures.
5.	Facts Discovered After Validation or Verification	Middle	Project changes that may affect the GHG Verification statement.	Through the field visit, the status of the implementation of the project is assured.
Detection Risk:				
6.	Delays in the calibration of measurement or monitoring equipment related to the quantification of GHG removals or reductions.	Middle	There is no record of the frequency of calibration of the equipment established to carry out the measurements in the monitoring.	The project proponent should establish a procedure whereby a recording check of the calibration frequency of the measuring equipment is carried out to ensure its precision and accuracy.
7	Insufficient information to demonstrate the possession of the rights to use the land on which the forestry activity takes place.	Middle	All land tenure documents are up to date with respect to land ownership.	The proponent of the project submits all the updated documentation that accredits them as holders of the use of the land and/or establish and demonstrates the management that has been carried out before the corresponding entities for the updating

No.	Risks that may lead to errors, omissions and potential distortions	Risk Assessment		Risk control system in the verification plan and/or in the sampling or evidence collection plan
		Risk Level	Justification	
				and presentation of the legal documentation that accredits them as holders of the use of the land where the forestry activity is carried out.

Through the different rounds of findings and the respective clarifications, the proponent made the pertinent modifications and clarifications corresponding to the audit team, to generate a stable level of confidence.

Considering the requirements of the GHG program used the following sample will be performed with the review of 100% of the information. For validation and verification, the following criteria presented by the Project proponent as documentary support will be considered: 1. ICONTEC reproduce and verified 100% of the spreadsheets in Excel file calculations (5. Carbon calculation – ExAnte_AlcaravanOrinoquia_V3 and Expost_Alcaravan_V4), of the Proyecto Forestal Alcaraván Orinoquía for the ex-ante estimates during the period of quantification of GHG emission reductions/removals and the ex-post estimates for the monitoring period.

Considering all the elements collected during the strategic analysis of the project, as well as the evaluation that has been carried out throughout the course of the project and the on-site audit, ICONTEC determines that:

- *Analysis procedures remain representative.*
- *The evidence collected is appropriate and sufficient to generate a conclusion from the verification process.*

1. *For monitoring, the developer was used with an error of 10% and a confidence level of 90% as identified in the spreadsheets presented by the project and by the crosscheck carried out by the audit team, it was initially established that a total of plots where required differentially distributed among the different strata identified for the project.*
2. *For the reduction of uncertainty, a total of 139 plots are determined that manage to allow an unbiased estimation of the standing biomass and therefore of the carbon accumulated in the strata. The project areas, increasing the sample proposed by the tool and considering much more data for estimation and quantification.*
3. *The procedures for quality control of the information related to the estimation of GHG reductions consider, among others, the sampling of 10% of the monitoring plots, these plots were contemplated within this verification and a sampling of the total of the 139 plots surveyed was carried out, to carry out complete remeasurements and guarantee the quality of the information presented to the audit team.*
4. *The related information on the average values and the standard deviation observed for each stratum is extracted from the inventories carried out during the four*

previous verifications, included in the annual monitoring plan contemplated for this carbon project.

5. *Everything related to the property rights of the lands of the project and the boundaries of the areas that are part of it, is mainly based on the certificates of tradition and freedom, valid for their time of issuance. In cases where it is required or where there are inconsistencies, the evaluation is referred to the title studies, for this verification and as mentioned in this document, the audit team reviewed 100% of the certificates of tradition and freedom provided by the developer and some findings were raised in the cases that were necessary.*
6. *The monitoring of the company's compliance with the environmental obligations determined by the laws and regulations is monitored based on current legal environmental legislation, which includes environmental resolutions and those issued by the competent environmental authority, which in this case is the Regional Autonomous Corporation for the Use of Natural Resources and its Environmental Management.*
7. *The monitoring of biodiversity and social impact is described in the corresponding annual reports prepared by the project developer.*
8. *The national legislation applicable to the establishment and implementation of the project is recorded in the company's legal matrix, which is constantly being updated according to new laws, decrees, resolutions, regulations, etc.*

ICONTEC has carried out a review of the information, validating the quality of the information presented by the developer, in the same way a qualitative and quantitative evidence is analyzed and crosschecked to guarantee the level of assurance required by the standard, along with the implementation of the appropriate methodologies to comply with the standard and current legal regulations. Identifying possible risks, errors, omissions, or misinterpretations that may arise during the duration and implementation of the project.

4 Validation and verification procedures and means

4.1 Preliminary assessment

ICONTEC carried out the evaluation of the client's GHG information management system, as well as the procedures corresponding to the project activity itself, following the guidelines established by BIOCARBON REGISTRY; This is to reach a conclusion about its reliability.

The topics addressed when evaluating the evidence from the validation and verification process analyzed: 1) the evidence is of sufficient quantity and adequate quality; 2) professional judgment about the reliability of the evidence; and 3) the source and nature of the evidence (external, internal, oral, documented).

For the validation and verification planning process, strategic analysis, risk assessment, and audit plan design were included. This process took place from November 2022. An analysis of the evidence related to the PD, and the RM was carried out. During this audit process, it

has been verified that the information used for carbon estimates in the PD, and the RM aligns with accepted principles and practices in the management of ARR activities. The PD and MR of the Proyecto Forestal Alcaraván Orinoquía, initiative complies with the requirements established in:

1. *"Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024"*
2. *BCR TOOLS*
3. *MONITORING, REPORTING AND VERIFICATION (MRV). BCR carbon credits are quantified, monitored, reported, and verified. Version 1.0 February 13, 2023, and that is established in numeral 7 where it is established that the quantification period for GHG removal projects, a minimum of 20 years and a maximum of 30 years.*

ICONTEC carried out the evaluation of the client's GHG information management system, as well as the procedures corresponding to the project activity itself, following the guidelines established by BIOCARBON REGISTRY; This is to reach a conclusion about its reliability.

The detailed review of the project information and its assurance of the requirements to proceed with the development of the audit process and allowed the audit planning to be carried out based on the established criteria.

The desk review was conducted from 16/01/2023 to 21/01/2023 with one auditor, based on information provided by the Project Holder prior to the in-situ visit. The auditor reviewed all project documentation, ensured consistency with the project type, validated completeness, and identified possible deviations from BCR's program or methodologies.

These conditions were evaluated and are complied with by the project for the validation/verification process, as presented in the PD and the RM.

The audit team evaluated the information and data control system and considers it reliable, so it is concluded that the internal control system complies with the requirements of the reference and ensures with its procedures the organization, administration, handling, and management of the project documentation.

4.2 Document review.

Document review is the corroboration of information to verify that the project documentation (project document and monitoring report) meets all requirements. These documents are supported and attached in thematic folders containing spreadsheets, documentation scanners, information support reports, etc. to give the audit process

relevance, transparency, and reliability. In addition, it is specified that this information has a confidentiality agreement by the ICONTEC audit team.

To fulfill the objectives set for the validation and verification activities, the audit team conducted a thorough and detailed review of 100% of the evidence provided by the Project Proponent.

This information was cross-referenced with the criteria defined for the validation and verification process, as described in section 2 of this document, such as: as Resolution 1447 of 2018, ISO 14064-3:2019, and the BCR Standard from differentiated responsibility to common responsibility. Version 3.2. September 23, 2023 (the list of the documentation reviewed for validation is in Annex 5) to assess its compliance with validation/verification criteria and the user's intended objectives in a documented manner.

The document review is the corroboration of the information to verify that the project documentation – project design document and monitoring report, meets all the requirements, these requirements are supported attached in thematic folders contained with spreadsheets, documentation scanners, information support reports, etc. All the above, to give the process relevance, transparency, and reliability, considering that this information has a confidentiality agreement by the ICONTEC audit team.

The review of the documentary information with which the sampling plan was developed and elaborated was carried out from 15/12/2022 to 17/12/2022.

The evaluation of the information in line with to the following characteristics:

1. Comprehensive: Ensured that the expected content was present in the document.

2. Accurate: Ensured that the content aligned with reliable sources, such as standards and regulations.

3. Coherent: Reviewed the document's consistency with itself and related documents (evidence).

4. Updated: Verified that the content was up-to-date and complied with guidelines established by the latest regulations applicable to the Colombian carbon market, the national interpretation of social and environmental safeguards in Colombia, the latest version of ISO 14064-2:2019, and BCR Standard documents in general.

The validation/verification team conducted a documentary review that included the following:

1. *A review of the PD, the methodology applied, including applicable tools, modules, monitoring plan, and quality assurance and control procedures.*
2. *A review of the MR and project implementation.*
3. *A review of the data and information submitted to validate its completeness.*

4. An assessment of compliance with the regulatory framework related to carbon management, applicable regulations to validate the regularity of the activity.
5. An evaluation of documents evidencing land tenure and/or carbon rights for the project.
6. An assessment of the controls in place to ensure the quality of information and project document control.
7. Other justifying documents (maps, spreadsheets, etc.)

As part of the desk review, an office audit was carried out on the main points of the project requiring attention (Annex 2, present evaluations of findings)

Based on all the gathered evidence, it can be concluded that the criteria defined for this validation are appropriate and were consistently implemented over time. Emissions and removals are significant, and the evidence provided by CO2CERO and all the participants, correct, coherent, up to date, supports the audit scope, and is sufficient to substantiate the reported greenhouse gas reductions and/or removals.

The project has traceability of tests and records, validating that the Project Proponent provided 100% of the data used in the calculations to obtain the final quantity of reported emission reductions/removals.

4.3 Interviews

The site visit was conduct from 16/01/2023 to 21/01/2023, during these dates' interviews were conducted with the project owners, technical stuff from CO2CERO. During the on-site audit, a total of 5 meetings /interviews were held and approximately 5 property caretakers and 2 technical support staff. In general terms, the topics identified during the interviews are those related to the survey of the plots, from their location with the GPS point, to the assembly and establishment of the complete plot, where a review of the calibration of the equipment is carried out used and a survey of the plots in their entirety is made, this to identify biases and errors that could have been made during the assembly of the plot and to be able to make the pertinent corrections. Interviews related to land ownership were also carried out through telephone calls to some of the property owners, since during the visit only the managers and not the owners were present.

During the audit, some interviews were conducted with the different parties, all interviews with relevant stakeholders took place during the site visit, the objective of the interviews was to identify the participants and their process of enrollment in the project, in addition to corroborate the boundaries of the project, compliance with the conditions of applicability of the methodologies and identify compatibility of the project with the conditions of the area, as well as potential environmental and social impacts, where in the Table 5 below:

Table 5. Interviews

Date	Interviewee	Modality	Audit conclusion	Evidence
16/01/2023	Samuel Medrano	Presential	A brief interview is carried out where the work that has been carried out with the managers and owners of the properties is identified, in this case with the visit to the points carried out within the Enlace Rojo properties, where the assembly of the plots and the remediation is accompanied, making a brief intervention regarding the measurements and the equipment used for their measurement. Plots 9, 10 and 30 of the Eucalyptus species are visited	
17/01/2023	Samuel Medrano	Presential	The site visit and remeasurement of plots 23, 25, 6 and 11 is carried out, also of the previously visited lot.	
18/01/2023	Luis Fernando Rodriguez	Presential	A site visit is made with Mr. Luis Fernando where a brief interview is conducted regarding labor issues, his contract, accompaniment is carried out with 2 more people who help to remeasure the plots and plot 40 is visited	
19/01/2023	Wilson Avila	Presential	With the Galapagos team, visits are made to plots 232, 239 of Acacia, identifying that within the Galapagos property are the properties of Ecologic and sultana plots 239 and 240 of Acacia. With the entire field forestry team, a remediation of the same is carried out and a brief interview of the work team is carried out where the role and the properties that correspond to each of the actors mentioned above are identified.	

Date	Interviewee	Modality	Audit conclusion	Evidence
20/01/2023	Alexander Quiasua	Presential	Within the camp, the interview of the personnel who are part of the forestry operations that are carried out in Galapagos is carried out with the Forestry Engineer in charge where the activities that the company has and the future objectives are identified, on the other hand the review of issues such as the issues of honey from bees that come out of particular groups of the company was carried out. and the intervention they have in the establishment of the carbon plots and their assembly, the training in the measuring equipment and the benefits that the project would bring.	

The interviews yielded comments of compliance with the project, adequate owner enrolled with the information presented, and applicability and quantification based on the methodologies used.

4.4 On-site visit

The development of the audit was proposed from the Audit Plan document in a partially remote way. In accordance with the above, the on-site visit was carried out and the meetings were held both virtually and in person. Five and a half days (5.5 days) were used to carry out the on-site inspection, from 16/01/2023 to 21/01/2023, dates during which the activities contemplated and described in ANNEX 3 were executed.

In accordance with the above, from 16/01/2023 to 21/01/2023, the field audit was carried out that began with the field tours, interviews carried out and respective accompaniment in the tours carried out during this phase.

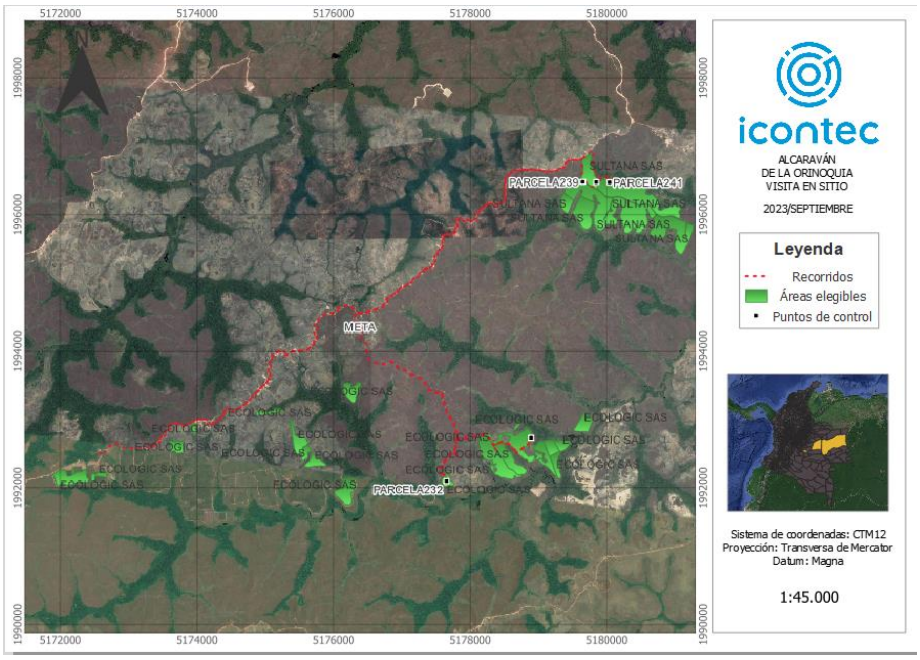
The project boundaries were visited through the evaluation of attributes such as: tree dasometry, growth, density, phytosanitary and mechanistic status; This made it possible to verify the veracity of the information contained in the project design document and the monitoring report, which are decisive in the emission removal calculations.

The audit was conducted in accordance with ISO 14064-2;2019. Evidence collection methods were interviews with project proponents, service providers and third parties to identify positive and negative aspects of the project and its implementation, validation and verification of existing documentation and on-site verification, execution of activities and control of land cover (Corine Land Cover).

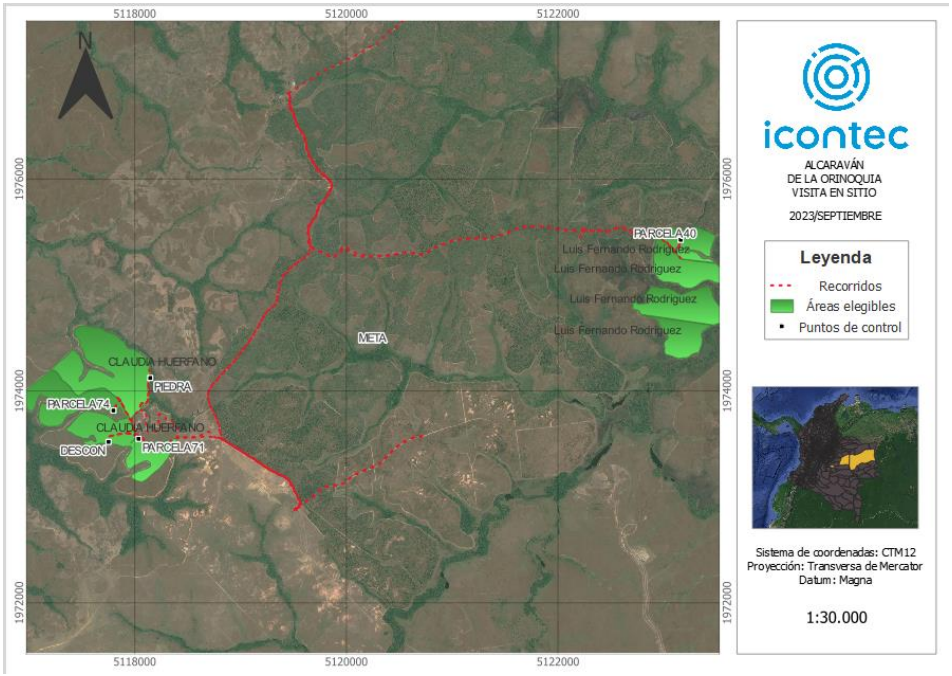
The validation and verification process were carried out through sampling, evidenced in the Table 18, which told with the visit of 13 plots. This assessment will focus on had en account the Displacements and ground conditions such as evidenced in the maps below.

It is evident that the errors found are not significant and are due to usual field situations within the forestry context, so the level of assurance or the materiality of the emission removal of the Proyecto Forestal Alcaraván Orinoquía is not affected.

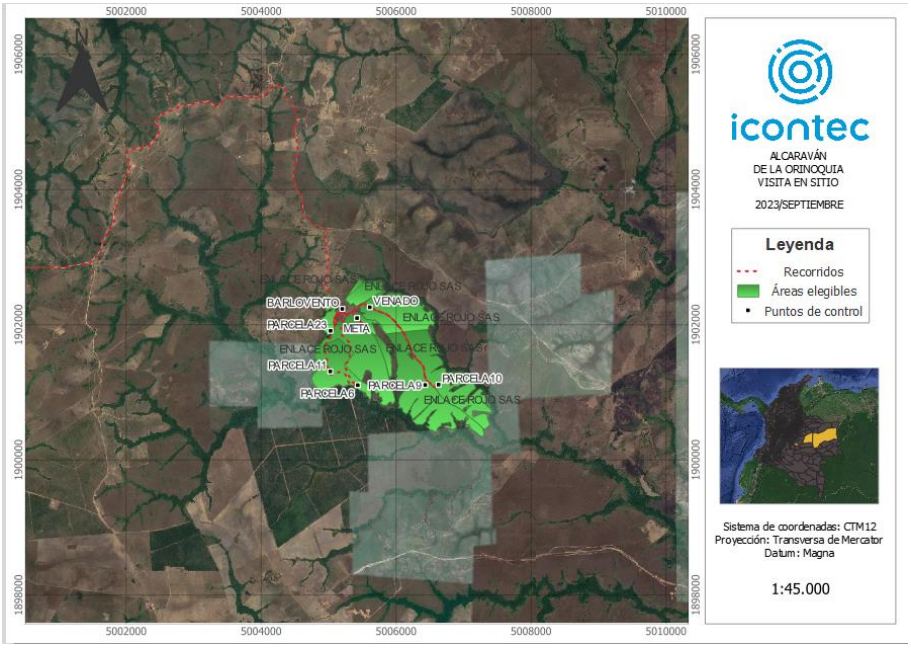
The on-site visit allowed the audit to verify that the procedures for obtaining the data were pertinent and that the data are consistent with those used and delivered by the project proponent, which guarantees the veracity and transparency of the information. In the same way, it was possible to verify the activities carried out and the measurements carried out within the framework of the forest inventory, whose data are used for the estimation of removals. It was confirmed that most of the milestones to be evaluated are in accordance with the processes and that they comply with the requirements of the benchmark.



Map 1. Site visit of the Proyecto Forestal Alcaraván Orinoquía part 1



Map 2. Site visit of the Proyecto Forestal Alcaraván Orinoquía part 2



Map 3. Site visit of the Proyecto Forestal Alcaraván Orinoquía part 3

In the selected plots, the following aspects were verified:

- *Parcel information (parcel identification number, coordinates, property, village, and municipality)*

- *Verification of the layer*
- *Verification of the boundaries and center point of the parcel*
- *Parcel Type Identification (Circular)*
- *Calibration of digital measuring equipment (vertex)*
- *Tree data collection (height, diameter)*
- *Verification of the phytosanitary and mechanical status of trees*
- *Compliance with the Monitoring Plan established in PD.*

In addition to the remeasurement of the selected sites, the activities that were carried out during the site visit were:

- *The verification team confirmed during the visit that the geographical area of the project, as reported in the Monitoring Report and in the cartographic files, meets the criteria of the standard and the selected methodology.*
- *The verification team collected GPS tracking data and landmarks, and took photographs to help correlate the observations with the mapping data provided by the developer (see images below)*
- *The verification team collected and recorded data to assess whether data collection techniques conform to the monitoring plan and related documentation, as well as to evaluate data quality control systems.*

With the above information, the veracity of the information contained in the monitoring report is evaluated, which is decisive in the results of the emission removal calculations. In addition, interviews with project proponents and participants were used to identify positive

and negative aspects of the project and its implementation, such as methods of evidence collection and control of land cover (Corine Land Cover).

During the field inspection and once this phase was completed, the findings were socialized and recommendations for improvement were made.

4.5 Clarification, corrective and forward actions request.

Annex 2 of this report describes the findings and responses given by the project manager to each of the requests for corrective actions, requests for clarification and requests for future actions, generated by the audit team during validation and verification, as well as the conclusion of the status of these.

The findings detected by ICONTEC (22 CARs, 03 CLs and 1 FAR) were presented to the project manager and were resolved through communications or meetings between the two parties. The twenty-six (26) were satisfactorily addressed by the project proponent during the verification process, ensuring that the documentation is in line with the benchmark, and were resolved through communications or meetings between the two parties.

Additionally, an opportunity for improvement was established in which the project developer must improve the compliance defined for the assembly and establishment of plots, given that although in this case, the occurrence of what is evidenced in the field does not alter the carbon quantification, nor does it result in a significant error that affects the project or overestimates the net removals of the project, It can affect it when the facts evidenced become repetitive.

ICONTEC considers a finding to be satisfactorily closed only if the person responsible for or owner of the GHG mitigation project modifies or rectifies the PD, monitoring report, or provides additional information or evidence that the responses comply with the identified finding.

All requests were satisfactorily addressed by the project developer during the audit process, ensuring that the documentation is in line with the benchmarks. In addition, the audit team identified some opportunities for improvement framed in the forest inventory in plantation, in improving the procedures for recording and collecting evidence, and SDGs. To comply with the SDGs of this project, the CAR 04, 06, 07, 08, 09, 10, 11, 12, 13, 14 and 15 findings were made, which can be found in detail in Anex 2 of this report. For the reported monitoring period, the following Sustainable Development Goals were identified:

SDG 1. End poverty in all its forms everywhere.

SDG 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

SDG 8. Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all.

SDG 12. Ensure sustainable consumption and production patterns.

SDG 13. Take urgent action to combat climate change and its impacts.

SDG 15. Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably mange forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

4.5.1 Clarification requests (CLs)

The declaration of an CLs in validation is done to identify issues related to the implementation of the project that require review during the first verification of the proposed project activity. CLs related to program rules and requirements for the recording of project activity may not be declared.

In verification, the CL is generated if monitoring and reporting actions require attention and/or adjustment for the present validation and verification period.

For the current period, 3 CLs were registered, Among the findings found in the clarifying actions are issues related to documents that are not related to the project and are found within the annexes, the minimum mappable selection criteria for the eligible areas of the project and clarifications regarding the contract signed with the reforesters.

4.5.2 Corrective actions request (CARs)

The declaration of a CARs in validation is done to identify issues related to the implementation of the project that require review during the first verification of the proposed project activity. CARs related to program rules and requirements for the recording of project activity may not be declared.

In verification, the CAR is generated if monitoring and reporting actions require attention and/or adjustment for the present validation and verification period.

For the current period, 22 CARs were registered, Within the corrective action requests, for this project, issues related to carbon rights, contracts signed with reforesters, questions related to project participants, Sustainable Development Goals, the analysis of project barriers to demonstrate additionality, corrections regarding the methodological document delivered by the developer, the assembly of the plots and the information delivered, inconsistencies with the information found in the field vs. the data delivered and cartographic corrections.

4.5.3 Forward action request (FARs)

The declaration of an FAR in validation is done to identify issues related to the implementation of the project that require review during the first verification of the proposed project activity. FARs related to program rules and requirements for the recording of project activity may not be declared.

In verification, the FAR is generated if monitoring and reporting actions require attention and/or adjustment for the next verification period.

For the current period, 1 FAR was registered, which must be addressed in future verifications,

The request for future action is related to the information that must be uploaded to the RENARE platform when it is active to comply with Resolution 1447 of 2018.

5 Validation findings

The project has successfully demonstrated the implementation of effective procedures and strategies to address identified risks, encompassing environmental aspects (floods and heat points - thermal variations), financial considerations (non-profitability, low market demand, and contractual non-compliance), and social factors (carbon ownership). Additionally, a monitoring plan has been established throughout the 20-year quantification period (2018 to 2037) with the aim of ensuring the persistence of these measures.

The proponent has provided appropriate, precise, and objective evidence supporting the conduct of a detailed analysis to classify identified risks based on their level of criticality, probability of occurrence, impact, and direct or indirect impact on the project. This analysis has enabled the formulation of specific measures to effectively manage the risks.

5.1 Project description

Within the framework of a systematic, independent, and documental process to evaluate GHG mitigation activities, the description of the project was evaluated according to the references, requirements and criteria described in chapter 2 of this document, in addition to the provisions of the GHG Project Validation and Verification Manual version 2.2 and the guidelines of the ISO 14064-3 standard. Following the above, GHG mitigation goals and results, the appropriate use of the baseline scenario; cartographic delimitation and definition areas; the mitigation outcomes of the project; compliance with project´s additionality criteria for GHG, ownership and rights over carbon; assessment of environmental and social aspects; the projects contribution to the sustainable development Goals; consultation of stakeholders; compliance with national legislation and the design of a monitoring plan that included everything related to the quantification and monitoring of GHG emission reductions.

The project has the participation of 8 projects reforestation in the Orinoquía region. Has evidenced by the Documentation that was reviewed Contemplated legal equities and land tenure, Hectares Eligible (1.094,43) established with Species Acacia mangium, Eucalyptus pellita y Pinus caribaea.

A total of 139 circular plots of 400m2 were used to monitor the carbon pools, except for the plots of the Punta Garza, which have a size of 420m². The sampling error associated with the forest inventory was 9.86%, with a confidence level of 95%.

The project has a start date of April 11, 2018, has a historical period ranging from 11/04/2013 to 11/04/2018 and quantification period of 20 years between 11/04/2018 and 10/04/2037. This verification covers the period of registration from 11/04/2018 to 02/12/2022 and is expected to carry out triennial verifications.

The reservoirs considered for the project are:

Table 6. Project Reservoirs

Reservoir	Scenario of Baseline	Scenario of project	Justification
Aboveground Biomass (BA)	Yes	Yes	It is the main sink as it represents the increase in the carbon stock in the forest cover of the project area. It covers both tree and non-tree biomass. It is verified with the AR-TOOL 14 with compliance with numeral 5
Groundwater Biomass (BS)	Yes	Yes	The sinkhole is included as it is the second most important reservoir and is expected to increase because of the project. It is verified with the AR-TOOL 14 with compliance with numeral 5
Dead Wood (MM)	Yes	Yes	This carbon reservoir is expected to increase, due to the execution of the project activities. In the baseline scenario, the carbon in these reservoirs is equivalent to a proportion of the aboveground biomass. Therefore, for the project, it is counted as zero.
Leaf Litter (LL)	Yes	Yes	It will increase over the years due to the activities of the project. In the baseline scenario, the carbon in these reservoirs is equivalent to a proportion of the aboveground biomass. Therefore, for the project, it is counted as zero.
Soil Organic Carbon (SOC)	Yes	Yes	It will increase over the years due to the permanent presence of tree cover

And the emission sources would be:

Table 7. Project Emission Sources

Source	Baseline Scenario			Project Scenario		
	CO_2	CH_4	N_2O	CO_2	CH_4	N_2O
Combustion of woody biomass	No	No	No	Yes	No	No

In the baseline scenario and the project scenario, the contributions made by methane and nitrous oxide emissions from combustion were not found to be significant, being less than 5% of total emissions, as established in the Standard in chapter 22.3 numeral (b).

The Project Document (PD) along with the Monitoring Report (RM) were revised under the BCR Standard V3.2. The project is part of the AFOLU sector, defined within the standard in chapter 10.1 and based on agricultural and forestry activities that include commercial plantations (forest plantations) if they are developed in areas other than natural forest or natural vegetation cover other than forest.

The conformity assessment of the boundaries of the mitigation project included:

Spatial boundaries and project activity: Through the site visit (tours and observations) and documentary information associated with the Forest Establishment and Management Plan, it was evidenced that the activities implemented effectively correspond to forest plantations of Acacia mangium, Eucalyptus pellita and Pinus caribaea. The actual planting areas for each species, reported by the project holders, will be satisfactorily contrasted in the field using cartographic information, and on desktop using historical satellite information from Google Earth. In addition, the spatial boundaries of the project are contemplated in the legal documentation associated with land tenure, which supports the information related to the location and owners of the properties that make up the project area.

The land cover present at the beginning of the project and five years before the start date was categorized and analyzed using official cartographic sources, such as the Corine Land Cover Methodology; this categorization made it possible to show that the eligible areas of the project, during the season, do not meet the definition of forest provided by the country. Specifically, in the absence of a project, the eligible areas corresponded to clean pastures and pastures with natural spaces, complying with the eligibility guidelines set forth in the methodology.

The project owner timely submitted the eligibility analysis for the project areas, which consisted of a multitemporal analysis of land cover change using satellite imagery. The audit team contrasted this information using historical satellite imagery from Google Earth.

GHG reservoirs: The selection of reservoirs included in the quantification of the change in carbon stocks at the project boundaries included deposits corresponding to aboveground biomass, groundwater biomass, dead wood and scrape, and soil organic carbon. This selection complies with the guidelines of the methodology, since the carbon stock in these reservoirs is expected to increase due to project activities.

GHG sources: Emissions from CH4 or N2O from the combustion of woody biomass from activities such as soil preparation for the establishment of forest plantations were not considered. The audit team verified through the Forest Establishment and Management Plan and the site visit that there was no evidence of burns that generate methane and nitrous oxide emissions that have to be accounted for during the monitoring period.

The objective of the National Climate Change Policy (PNCC) is to incorporate climate change management into public and private decisions, to advance on a path of climate-resilient and low-carbon development that reduces the risks of climate change and allows us to take advantage of the opportunities it generates. they cover the objective communicated within the national policy in Colombia.

The project does not contemplate the participation of ethnic communities and therefore is developed on private land with the support of legal tenure protected by deeds and alignment.

5.2 Project type and eligibility

The Proyecto Forestal Alcaraván Orinoquía is an ARR Initiative and is part of the Forest Activities, with Commercial Forest Plantations (ARR), Sufficiently reliable information was used for the eligibility mapping analysis, such as the most recent data available from the analysis of the land use history of the project area through satellite imagery and project mapping. In addition, through the survey and field verification, the results of the digital processing and project applicability conditions were ratified.

Based on the evidence provided, remeasurements were carried out on the plots selected by the audit team and assumptions, as well as cross-checks with applicable methodologies and tools, ICONTEC considers that the type of project, the technology, the measures applied, the evaluation of Project eligibility is transparently detailed in the PD and provides a clear overview of the project.

Table 8. Project type and eligibility

Eligibility criteria	***Evaluation by validation body***
Scope of the BCR Standard	Agriculture, Forestry and Other Land Uses (AFOLU)
Project type	Activities in the AFOLU sector, other than REDD+

Eligibility criteria	Evaluation by validation body
Project activity(es)	GHG removals by promoting the increase of carbon stocks and a specific forestry activity, with Commercial Forestry Plantations (ARR).
Project scale (if applicable)	According to the BCR Standard From differentiated responsibility to common responsibility Version 3.2, classified as GHG removal activities, they are not subdivided into categories related to the scale of the project.

The steps taken to evaluate the information submitted by the project owner were as follows:

- *Preliminary Assessment:*

The project developer submitted to ICONTEC a form with sufficient information to determine and know the purpose, scope and validation and verification criteria, leaving specificity of the standard, the type of project, its methodology, the applicability of the monitoring report concerning the selected methodology and the sectoral and national regulations in force.

- *Contractual Agreement:*

A presentation of the service proposal and appointment of the audit team is made. Once the developer submitted the necessary information to submit a business proposal, ICONTEC submitted an approved proposal following the criteria of the validation and verification program and the designated audit team. This team sought to satisfy the qualification and impartiality criteria defined for the provision of the service. The proposal is signed by the project developer.

- *Validation and Verification Plan:*

The audit team, using the documentation provided by the developer, began the document review according to the service to be provided and the service proposal. The auditor reviewed the set of documents and, if necessary, requested further documents or clarifications of the documents received.

Based on the documentation submitted by the developer and the program-specific criteria, a documented audit plan was developed, which is explained in detail in sections 3.4 and 4.4 of this report and in Annex 5, which includes the activities, resources, sampling plan, and designated audit team.

The audit plan is communicated and agreed with the developer, who modifies it if necessary, during the audit process. The audit team and according to the criteria of the validation and verification program defined whether the audit needs an on-site visit or could be conducted remotely, in this case an on-site visit described in section 4.4 was conducted.

- *Development of the validation and verification audit:*

On site audit: *Once the audit team has defined the audit plan and the need to visit the activity, the audit team executes the audit plan, primarily through interviews with the project owner and other relevant stakeholders, as described in section 4.3, to assess whether the Project Activity or Program of Activities complies with the rules and regulations of the GHG.*

The on-site audit also includes supplementary documentation supplied by the developer. The audit team typically identifies other sources that can provide basic information for the audit, as well as verifies documents against external sources if necessary.

Preliminary Audit Report for GHG Mitigation Project Validation and Verification Services: The draft audit report includes a general discussion of the details captured by the interviews and clearly states the conclusions regarding each of the general topics required for a successful audit. The audit team reported the non-compliances (SAC, SA or SAF) detected, which were reviewed with the project developer to obtain recognition that the finding is accurate and that the Contracting Entity understood them.

Resolution of audit findings: *After the Organization recognizes the non-compliances noted in the audit, these will be resolved promptly. Once the action plans have been received, the lead auditor verifies whether they are appropriate and writes their conclusion in the audit report.*

Final audit report: *The audit report reflects the responses to the findings, discussions, and modifications of the documents of the validation and verification service. The audit report shall present the findings regarding whether the service meets the relevant validation and verification requirements for the type of service provided.*

Technical Review and Final Decision Stage: *Once the final audit report is completed, it is presented to the technical review team assigned for the final audits. This technical reviewer is responsible for issuing the final opinion on the audit and reviewing whether the audit process satisfies the requirements of the specific validation and verification program.*

If the technical reviewer makes observations, the lead auditor processes them with the developer. For GHG Mitigation Project Validation and Verification services, once the technical review team submits the final opinion, a final decision is presented after review and confirmation of compliance with the procedure by the Validation and Verification Manager. A copy of the approved final report is sent to the developer in accordance with the rules and regulations of the validation and verification program.

Validation and Verification Statement: *ICONTEC issues a validation and verification statement addressed to the intended users, describing the level of assurance, objectives, scope, audit criteria, supporting data and information, and conclusion.*

Request for a final decision to the GHG program in GHG Mitigation Project Validation and Verification services: *After the successful completion of the audit and under the specific GHG program, the project registration procedure is conducted. Most GHG programs conduct a review and approval and, if possible, request additional information. When this situation arises, ICONTEC and the developer will process them and submit a new set of documents to the GHG program.*

5.3 Grouped project (if applicable)

The Proyecto Forestal Alcaraván Orinoquía is not a grouped project.

5.4 Other GHG program

The audit teams have found no evidence that the project has been registered, nor is it applying for registration under another GHG program, nor has been rejected by another GHG program.

The project is not partially or fully registered in other climate change mitigation standards or certification programs. It is not in possible overlap with other climate change mitigation projects, complying with the BCR Standard, version 3.2 of September 23, 2023, and its guidelines.

Gap validation was performed with the following information:

- *The name of the registered project is Proyecto Forestal Alcaraván Orinoquía, with the ID BCR- CO-CO-14-003, information validated on the platform with the following link https://biocarbonregistry.com/en/project/?id=53*
- *The search was carried out on other platforms and there is no evidence that he is enrolled in any other program.*
- *It is not registered on the RENARE platform to comply with Resolution 1447, as it is under maintenance. However, a SAF (SAF 1) is generated with respect to the time of activation of the SAF to comply with it.*

To comply with number 25 of the Project Standard, was necessary to:

a) *The project has not been registered on any other registration platform. The audit team verified the different standards for the location of the project and made a detailed review of the projects that are nearby, from this review the information found within this report in chapter 6.8 was derived, with much more detail.*
b) *Reductions or removals generated by the project are not part of any other GHG Project.*
c) *The project developer demonstrates compliance with the requirements established in the national legal framework with the legal compliance matrix and all the regulations it complies with for the establishment and operation of the project and comply with the rules and procedures established by the standard.*

The project complies with the provisions of the "BCR STANDARD OPERATING PROCEDURES"

In chapter 6.8 of this report, there is the information found regarding the projects close to the project, where these projects are identified in detail, and you can see how they are cartographically distributed.

As a result, it is concluded that the project has not carried out any migration from other standards or certification programs, according to the reviews, interviews and evidence obtained by ICONTEC. ICONTEC satisfactorily verified this information and, in addition, found that the project has no partial or total registration in other climate change mitigation standards or certification programs and is not implemented in areas that overlap with other GHG Project.

5.5 Quantification of GHG emission reductions and removals

The design of the project activities was carried out following the guidelines and guidelines established in the methodological documents of the AFOLU sector, specifically the methodologies BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024, and that it is verifiable within the framework of the ISO 14064-3.

Section 3 of the PD includes information on the methodological conditions for calculating the project´s removals in accordance with the activities contemplated. For this purpose, the project owner relied on the selected methodology, which describe each of the conditions, parameters, assumptions, and methodological development for the properties that are part of the project.

ICONTEC carried out a review of all the data submitted by the project proponent, corresponding to formulas, calculations, uncertainties, among others, to ensure consistency with the audit criteria established in section 2.

ICONTEC reviewed the information contained in this section and considers the information presented to be credible and sufficient in the scenario of formulating and quantifying ex ante reductions.

The project estimated uncertainty using the CDM methodological tool AR-TOOL14, for the estimation of carbon stocks in trees, obtaining the following result:

$$u_{\Delta c} = \frac{t_{VAL} \times \sqrt{\sum_{i=1}^{M} Wi^2 \times \frac{S_{\Delta,i}^2}{ni}}}{|\Delta b_{TREE}|}$$

Table 9. Uncertainty Formula

Stratum	Area (ha)	n	Wi	WI2
ENLACE ROJO SAS Eucalyptus pellita 2018	179.49	20	0.16	0.03
ENLACE ROJO SAS Eucalyptus pellita 2019	70.49	8	0.06	0.00
ENLACE ROJO SAS Eucalyptus pellita 2020	38.51	4	0.04	0.00
ECOSISTEMA PRODUCTIVO MATAEMONTE SAS Acacia mangium 2021	266.11	29	0.24	0.06
ECOLOGIC SAS Acacia mangium 2020	67.09	10	0.06	0.00
ECOLOGIC SAS Acacia mangium 2021	26.65	5	0.02	0.00
LUIS FERNANDO RODRIGUEZ Eucalyptus pellita 2018	61.04	4	0.06	0.00
INVERSIONES GUARDABOSQUES DE COLOMBIA Pinus caribaea 2018	102.38	12	0.09	0.01
PUNTA DE GARZA INVERSIONES FORESTALES Eucalyptus pellita 2018	43.48	15	0.04	0.00
PUNTA DE GARZA INVERSIONES FORESTALES Pinus caribaea 2018	44.98	15	0.04	0.00
SULTANA SAS Acacia mangium de 2021	103.48	12	0.09	0.01
CLAUDIA HUERFANO Pinus caribaea de 2018	90.72	5	0.08	0.01
TOTAL	**1,094.43**	**139**	**1.00**	**0.13**

Table 10. Table Formulas Uncertainty 2

Stratum	Area (ha)	$\sum_{}^{ni} \Delta b_{TREE,}$	ΔbTREE,i	$\left(\sum_{p=1}^{ni} \Delta b_{TREE,p,i}\right)^2$	$\sum_{p=1}^{ni} \Delta b_{TREE,p,i}^2$	$S_{\Delta,i}^2$
ENLACE ROJO SAS Eucalyptus pellita 2018	179.49	463.89	23.19	215,192.98	14,207.75	181.48
ENLACE ROJO SAS Eucalyptus pellita 2019	70.49	24.93	3.12	621.46	99.83	3.16
ENLACE ROJO SAS Eucalyptus pellita 2020	38.51	8.69	2.17	75.49	22.79	1.30
ECOSISTEMA PRODUCTIVO MATAEMONTE SAS Acacia mangium Aug 2021	266.11	45.35	1.56	2,056.47	81.15	0.37
ECOLOGIC SAS Acacia mangium 2020	67.09	369.68	36.97	136,665.73	14,771.32	122,75
ECOLOGIC SAS Acacia mangium 2021	26.65	18.88	3.78	356.37	81.69	2.60
LUIS FERNANDO RODRIGUEZ Eucalyptus pellita 2018	61.04	72.76	18.19	5,294.71	1,742.31	139.54
INVERSIONES GUARDABOSQUES DE COLOMBIA Pinus caribaea 2018	102.38	114.23	9.52	13,047.39	1,638.19	50.08
PUNTA DE GARZA INVERSIONES FORESTALES Eucalyptus pellita 2018	43.48	359.95	24.00	129,563.02	8,805.51	12.00
PUNTA DE GARZA INVERSIONES FORESTALES Pinus caribaea 2018	44.98	301.92	20.13	91,154.02	6,502.07	30.37
SULTANA SAS Acacia mangium de 2021	103.48	80.75	6.73	6,520.57	617.07	6.70
CLAUDIA HUERFANO Pinus caribaea de 2018	90.72	4.42	0.88	19.56	4,39	0.12

Stratum	*Area (ha)*	$\sum^{ni} \Delta b_{TREE,}$ *ΔbTREE,i*			$\sum_{p=1}^{ni} \Delta b^2_{TREE,p,i}$	$S^2_{\Delta,i}$
TOTAL	*1,094.43*	*1,865.44*	*150.24*	*600,567.76*	*48,574.06*	*550.47*

Stratum	*Area (ha)*	*S2Δ/ n*	*wi2*S2 Δ/n2*	*n*ΔbARB,p2*	*Wi*ΔbT REE,i*
ENLACE ROJO SAS Eucalyptus pellita 2018	*179.49*	*9.07*	*0.2441*	*284,155.10*	*3.80*
ENLACE ROJO SAS Eucalyptus pellita 2019	*70.49*	*0.40*	*0.0016*	*798.66*	*0.20*
ENLACE ROJO SAS Eucalyptus pellita 2020	*38.51*	*0.33*	*0.0004*	*91.14*	*0.08*
ECOSISTEMA PRODUCTIVO MATAEMONTE SAS Acacia mangium Aug 2021	*266.11*	*0.01*	*0.0007*	*2,353.22*	*0.38*
ECOLOGIC SAS Acacia mangium 2020	*67.09*	*12.27*	*0.0461*	*147,713.17*	*2.27*
ECOLOGIC SAS Acacia mangium 2021	*26.65*	*0.52*	*0.0003*	*408.43*	*0.09*
LUIS FERNANDO RODRIGUEZ Eucalyptus pellita 2018	*61.04*	*34.89*	*0.1085*	*6,969.22*	*1.01*
INVERSIONES GUARDABOSQUES DE COLOMBIA Pinus caribaea 2018	*102.38*	*4.17*	*0.0365*	*19,658.23*	*0.89*
PUNTA DE GARZA INVERSIONES FORESTALES Eucalyptus pellita 2018	*43.48*	*0.80*	*0.0013*	*132,082.65*	*0.95*
PUNTA DE GARZA INVERSIONES FORESTALES Pinus caribaea 2018	*44.98*	*2.02*	*0.0034*	*97,531.10*	*0.83*
SULTANA SAS Acacia mangium de 2021	*103.48*	*0.56*	*0.0050*	*7,404.87*	*0.64*
CLAUDIA HUERFANO Pinus caribaea de 2018	*90.72*	*0.02*	*0.0002*	*21.96*	*0.07*

Stratum	Area (ha)	S2Δ/ n	wi2*S2 Δ/n2	n*ΔbARB,p2	Wi*ΔbT REE,i
TOTAL	1,094.43	65.07	0.4482	699,187.75	11.21

Values	Total
n	139.00
M	12.00
N-M	127.00
t	1.6569
μ	9.89%

For a total uncertainty of 9.89 with a probability of 0.05%. Because of this, no additional discounts were made to the reversal risk, since according to the methodology the discount is only applied if the estimate is greater than 10%, becoming a conservative estimate by applying the uncertainty discount according to the procedure. ICONTEC verified that the use of this methodology is consistent and that the conditions of applicability of this methodology are met and the characteristics of the BCR Standard, version 3.2 of September 23, 2023, are met.

For the quantification of the emission removals, a net balance of the emissions from the implementation of the project, the standing biomass and the carbon stored in the tree individuals to date is given and estimated based on forest inventories.

The calculation of projected removals is consistent with the characteristics of forestry activities and the growth of the species used, as well as with what is described in the PD, about the establishment and management of forest plantations. The ex-ante calculations are in the project folder 5_Carbono, sub-folder Ex Ante, these are based on the estimated projections of the company with an Average Annual Increase (AMI) of:

Table 11. IMA Project Species

Species	IMA -DAP	IMA-H
Acacia mangium	1.69	1.72

Species	IMA -DAP	IMA-H
Eucalyptus pellita	1.68	1.71
Pinus caribaea	1.68	1.69

The result and quantification of the net effect of the forest mitigation project for this verification found in project folder 5_Carbono, sub-folder Ex post, is based exclusively on the estimation from forest inventories with a sampling error of 9.86% being consistent and consistent with the emission factors and activity data of the forest inventories.

According to the "Methodological Documents Sector AFOLU BCR0001 Quantifications of GHG removals. Forestation, Reforestation and Revegetation Activities. Version 4.0 from February 9, for the estimation of net removals by reservoirs, it was calculated as follows:

Using the following data for estimates:

Table 12. Defaults

Species	R	Volume		Wood density (g/cm^3)	BEF	Source
Acacia mangium	exp(-1.085+0.9256*LN(Ba))/Ba; Ba= Aboveground biomass	(PI()/40000) *H*((bo^2)+(bo*b1*(DAP)+(((b1^2)*(DAP^2))/3)))		0.49	1.68	BEF and Density: Estudio Rodríguez y Ramírez (2008)
		bo	0.71761			
		b1	1.11427			
Eucalyptus pellita	exp(-1.085+0.9256*LN(Ba))/Ba; Ba= Aboveground biomass	V= 0,000051265*((DAP (cm)) ^(1,8753))*(HT(m)^(0,9888))		0.64	1.19	Nieto, V., Giraldo-Charria, D., Sarmiento, M., & Borralho, N. (2016)
Pinus caribaea	exp(-1.085+0.9256*LN(Ba))/Ba; Ba= Aboveground biomass	V=PI()/40000*((H*((bo^2)+2*(bo)*(b1)*DAP+(b1^2)*(DAP^2)))-((H^2/H)*(((bo)*(b1)*(DAP)+(b1^2)*(DAP^2))))+(H^3/3)*(((b1^2))*DAP^2)/H^2))		0.48	1.24	Volume Equation: Refocosta
		bo	2,15296			

Species	R	Volume		Wood density (g/cm³)	BEF	Source
		b1	1,07238			

Table 13. Species Parameters

Parameter	Species	Value	Source
Basic Density (Dj)	*Acacia mangium*	0.49	(Rodrìguez & Ramìrez, 2008)
	Pinus caribaea	0.48	(BioCarbon Registry, 2020) Quoting Pino et al. (2007)
	Eucalyptus pellita	0.64	(Hamlet, 2006)
Biomass Expansion Factor (BEF)	*Acacia mangium*	1.68	(Rodrìguez & Ramìrez, 2008)
	Pinus caribaea	1.24	(BioCarbon Registry, 2020)
	Eucalyptus pellita	1.19	(BioCarbon Registry, 2020)
Root-to-Aboveground Biomass Ratio (Rj)	*Acacia mangium*	$\frac{e^{(-1,085+0,9256*ln\ BA)}}{BA}$ BA: Aboveground Biomass	AR-AM TOOL 14, CDM Meth (V 4.2)
	Pinus caribaea	$\frac{e^{(-1,085+0,9256*ln\ BA)}}{BA}$ BA: Aboveground Biomass	AR-AM TOOL 14, CDM Meth (V 4.2)
	Eucalyptus pellita	$\frac{e^{(-1,085+0,9256*ln\ BA)}}{BA}$ BA: Aboveground Biomass	AR-AM TOOL 14, CDM Meth (V 4.2)
Carbon Fraction (CFj)	*Acacia mangium*	0.55	(BioCarbon Registry, 2020) Quoting the (Rodrìguez & Ramìrez, 2008)

Parameter	Species	Value	Source
	Other species	0.47	IPCC (2003,2006)
CO2/C ratio	All Species	$\frac{44}{12}$	IPCC (2003,2006)

Table 14. parameters used for soil organic carbon.

Parameter	Symbol	Factor	Source
Reference value of soil organic carbon content	COSref	47	Table 3. Tool 16
Land use	Flui	1	Table 6. Tool 16
Management	Fmgi	0.7	Table 6. Tool 16
Inputs	Fini	1	Table 6. Tool 16
SOC at the start of the Project activity	SOC initial	32.9	Equation 1. Tool 16
SOC lost due to Project activity	SOC loss	0	Equation 3. Tool 16
Rate of Change in Soil Organic Carbon in Strata	dCOSti	0.705	Equation 6. Tool 16

For the estimation of Litter (LI) and dead wood (DW), the following values were used:

Table 15. DW and LI defaults

Parameter	Value	Source
DF_{MM}	6%	AR TOOL 12
DF_{HOJ}	1%	AR TOOL 12

The following formulas were used:

Current Net GHG Removal by Reservoirs

$$\Delta C_{ACTUAL,t} = \Delta C_t - GHG_{E,t}$$

$\Delta C_{ACTUAL,t}$ *Actual net GHG removals by sinks, in year t; tCO_2-e*

ΔC_t *Change in the carbon stocks in the Project, occurring in the selected carbon pools, in year t; tCO_2-e*

$GHG_{E,t}$ *Increase in non-CO_2e GHG emissions within the project boundary as a result of the implementation of the project activity, in year t, as estimated in the tool AR-TOOL08; tCO_2-e*

To obtain these results, it is necessary to calculate the current net GHG removal, for which the project considered the AR-ACM0003 methodology (section 5.5), the "Methodological Documents Sector AFOLU BCR0001 Quantifications of GHG removals. Forestation, Reforestation and Revegetation Activities. Version 4.0 from February 9, 2024. Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024" and the AR-TOOL-14 Tool:

Changes in the selected carbon stocks in the project, in the selected reservoirs

$$\Delta C_{P,t} = \Delta C_{ARB\_PROy,t} + \Delta C_{ARBUST\_PROY,t} + \Delta C_{MM\_PROY,t} + \Delta C_{HOJ\_PROY,t} + \Delta COS_{A,t}$$

Where:

$\Delta C_{P,t}$ *Change in the carbon stocks in the Project, occurring in the selected carbon pools, in year t; tCO_2-e*

$\Delta C_{TREE\_PROJ,t}$ *Change in the carbon stock of tree biomass in the Project, in year t; tCO_2-e*

$\Delta C_{SHRUB\_PROJ,t}$ *Changes in the carbon stock of shrub biomass in the Project, in the year t; tCO_2-e*

$\Delta C_{DW\_PROJ,t}$	*Change in the carbon stock in dead wood in the project, tCO_2-e*
$\Delta C_{LI\_PROJ,t}$	*Change in carbon stock in leaf litter in the project, tCO_2-e*
$\Delta SOC_{A,t}$	*Changes in the carbon stocks in soil organic carbon in the project and the respective areas that meet the conditions of applicability of the tool, tCO_2-e*

The AR-ACM0003 methodology (Section 5.7) is used for the calculation of anthropogenic net GHG removal per reservoir.

Net anthropogenic GHG removal by reservoirs

$$\Delta C_{PROJ,t} = \Delta C_{ACTUAL,t} - \Delta C_{LB,t} - Fuga_t$$

Where:

$\Delta C_{PROJ,t}$	*Net anthropogenic GHG removals by sinks, in year t; tCO_2-e*
$\Delta C_{ACTUAL,t}$	*Actual net GHG removals by sinks, in year t; tCO_2-e*
$\Delta C_{BSL,t}$	*Baseline net GHG removals by sinks, in year t; tCO_2-e*
LK_t	*GHG emissions due to leakage, in year t; tCO_2-e*

Tree Carbon

$$C_{TREE_{,j,i,t}} = V_{TREE_{,j,i,t}} \times D_j \times BEF_{,j} \times (1 + Rj) \times A \times \frac{44}{12}$$

Where:

$C_{TREE_{,j,i,t}}$	*Carbon of trees of species j, in stratum i in year t; t of dry matter (d.m.)*
$V_{TREE_{,j,i,t}}$	*Timber volume of species j, in stratum i at a point in time in year t, estimated using the data resulting from the equation, for the annual volume tables; m^3.*
D_j	*Density (with bark) of species j; t d,m; m^{-3}*

BEF_j	*Biomass expansion factor for conversion of shaft wood to above-ground biomass, for species j; dimensionless*
Rj	*The root-above ground biomass ratio for species j; dimensionless*
j	*1, 2, 3, … species*
A	*Area of the strata; ha*

Carbon Reserve in Dead Wood

$$C_{MM,i,t} = C_{ARB,i,t} \times DF_{MM}$$

Where:

$C_{MM,i,t}$	*Carbon reserve in dead wood in stratum i in a given time period of year t; tCO2e*
$C_{ARB,i,t}$	*Carbon stock in the biomass of stratum i trees in a given period of time in year t; tCO2e*
DF_{MM}	*Conservative default factor that relates the carbon stock in dead wood as a percentage of the carbon stock in tree biomass, percentage.*
i	*1. 2. 3. … strata of tree biomass.*
t	*1. 2. 3. … Years have passed since the project began*

Carbon reserve in leaf litter

$$C_{HO,i,t} = C_{ARB,i,t} \times DF_{HOJ}$$

Where:

$C_{HO,i,t}$	*Leaf litter carbon reserve in stratum i at a given period of time in year t; tCO2e*
$C_{ARB,i,t}$	*Carbon stock in the biomass of stratum i trees in a given period of time in year t; tCO2e*
DF_{HOJ}	*A conservative default factor that relates the carbon stock in leaf litter as a*

percentage of the carbon stock in tree biomass.

i *1,2,3, … Tree biomass strata*

t *1,2,3, … Years have elapsed since the start of the project*

Soil organic carbon at the start of the project activity

$$\boldsymbol{COS_{INICIALi} = COS_{REF,i} \times f_{LU,i} \times f_{MG,i} \times f_{IN,i}}$$

$COS_{INICIALi}$ *COS at the beginning of the activity of the F/R MDL Project, in stratum i of the areas in the project; tCha-1*

$COS_{REF,i}$ *COS reference reserves, corresponding to the condition with natural covers, by climatic region and soil type applicable to stratum I of the areas in the project; tCha-1*

$f_{LU,i}$ *Relative stock change factor, for reference land use, in stratum i of land areas; Dimensionless*

$f_{MG,i}$ *Stock change factor, relative to baseline management regime in stratum i, of land areas; Dimensionless*

$f_{IN,i}$ *Relative stock change factor for the reference input regime, in stratum i of land areas; Dimensionless*

i *1. 2. 3. … Strata; Dimensionless*

Rate of Soil Organic Carbon Change

$$\boldsymbol{dCOS_{t,i} = \frac{COS_{REF,i} - (COS_{INICIAL,i} - COS_{PERDIDA,i})}{20\ años} \quad for\ t_{PREP,i} < t < t_{PREP,i} + 20}$$

Where:

$dCOS_{t,i}$ *Rate of change in soil organic carbon in stratum i of the Project areas in year*

t; tCha-1yr-1

$COS_{REF,i}$ It corresponds to the natural condition of soils with similar characteristics; t C ha-1.

$COS_{INICIAL,i}$ COS reserve at the beginning of the Project in stratum i; t C ha

$COS_{PERDIDA,i}$ Loss of SOC due to soil disturbances attributable to project activities in stratum i; t C ha

$t_{PREP,i}$ The year in which the first soil disturbance occurs in stratum i, of year t.

i 1, 2, 3, ... strata of the Project area.

t 1, 2, 3, ... years have elapsed since the start of the A/R project activities.

Change in soil organic carbon.

$$\Delta COS_{AL,t} = \frac{44}{12} \times \sum_{i} A_i \times dSOC_{t,i} \times 1\ año$$

Where:

$\Delta COS_{AL,t}$ Change in soil organic carbon of areas that meet the applicability conditions of the AR Tool16 of the AR – ACM0003 Methodology, in year t; tCO2e

A_i Total area of the strata; has

$dCOS_{t,i}$ Rate of change of soil organic carbon in stratum i; t C ha-1 yr-1

i 1, 2, 3, ... strata of the Project area.

The results for Ex Ante removals applying the above formulas can be evidenced in the following table:

Table 16. Ex Ante Removals

Year	Baseline removals (tCO2e)	Project removals by sinks (tCO2e)			Leakage (tCO2e)	Total Net Removals (tCO2e)	
		Incremental Removals	Cumulative Removals	Reserve 20%		Incremental Removals	Accumulated removals
2018	-	636	636	127	-	509	509
2019	-	2,490	3,126	498	-	1,992	2,501
2020	-	5,161	8,287	1,032	-	4,129	6,630
2021	-	10,044	18,331	2,009	-	8,035	14,665
2022	-	15,611	33,942	3,122	-	12,489	27,154
2023	-	1,180	35,122	236	-	944	28,098
2024	-	18,975	54,097	3,795	-	15,180	43,278
2025	-	27,312	81,409	5,462	-	21,850	65,128
2026	-	32,513	113,922	6,503	-	26,010	91,138
2027	-	0	113,922	0	-	0	91,138
2028	-	33,577	147,499	6,715	-	26,862	118,000
2029	-	44,744	192,243	8,949	-	35,795	153,795
2030	-	54,257	246,500	10,851	-	43,406	197,201
2031	-	42,308	288,808	8,462	-	33,846	231,047
2032	-	11,926	300,734	2,385	-	9,541	240,588
2033	-	51,905	352,639	10,381	-	41,524	282,112
2034	-	29,748	382,387	5,950	-	23,798	305,910

Year	Baseline removals (tCO2e)	Project removals by sinks (tCO2e)			Leakage (tCO2e)	Total Net Removals (tCO2e)	
		Incremental Removals	Cumulative Removals	Reserve 20%		Incremental Removals	Accumulated removals
2035	-	35,089	417,476	7,018	-	28,071	333,981
2036	-	41,431	458,907	8,286	-	33,145	367,126
2037	-	58,098	517,005	11,620	-	46,478	413,604
Total	-	**517,005**		**103,401**	**0**	**413,604**	

As a result, the net removal of the project for the credit period (20 years) from 11/04/2018 to 10/04/2037 is 517,005 tCO_2e, the estimated potential of the project until 2037 is 413,604 tCO_2e.

The Ex-Post results for the net removals of the project within 1,094.43 hectares of eligible area and with the assembly of 139 parcels would be as follows:

Table 17. Ex post removals by owner

Owner	Stratum	Reserve (tCO2e)	Net removals (tCO2e)
CLAUDIA HUERFANO	Pinus caribaea de 2018	518	415
ECOLOGIC SAS	Acacia mangium de 2020	6,827	5,462
ECOLOGIC SAS	Acacia mangium de 2021	319	255
ECOSISTEMA PRODUCTIVO MATAEMONTE SAS	Acacia mangium de 2021	1,558	1,246
ENLACE ROJO SAS	Eucalyptus pellita de 2018	10,363	8,290

Owner	Stratum	Reserve (tCO2e)	Net removals (tCO2e)
ENLACE ROJO SAS	Eucalyptus pellita de 2019	*730*	*584*
ENLACE ROJO SAS	Eucalyptus pellita de 2020	*285*	*228*
INVERSIONES GUARDABOSQUES DE COLOMBIA	Pinus caribaea de 2018	*2,674*	*2,140*
LUIS FERNANDO RODRIGUEZ	Eucalyptus pellita de 2018	*2,820*	*2,256*
PUNTA DE GARZA INVERSIONES FORESTALES	Eucalyptus pellita de 2018	*2,591*	*2,073*
PUNTA DE GARZA INVERSIONES FORESTALES	Pinus caribaea de 2018	*2,270*	*1,816*
SULTANA SAS	Acacia mangium de 2021	*2,075*	*1,660*
Total general		***33.030***	***26,424***

Resulting in the net removal of the project for the verification period (5 years) from 11/04/2018 to 02/12/2022 are 33,030 tCO_2e.

From the information presented, ICONTEC carried out a cross-check analysis with all the information, concluding its veracity.

5.5.1 Start date and quantification period.

*- **Start date:** 04/11/2018. The start date of the removal activities was properly defined, so that it is defined within five (5) years prior to the start of the validation and corresponds to the start of the activities that will result in effective GHG removals. On this date, the project started of planning work for planting, including the procurement of plant material and substrate.*

- Duration and Quantification Period: *04/11/2018 to 02/12/2022 (20 years). It complies with the fact that the quantification period is framed in a minimum of 20 years and a maximum of 40 years.*

ICONTEC checked this date with the evidence and start of activities by the property owners and the beginning of the planting planning work, with the acquisition of plant material and substrate, all this is aligned with the establishment and subsequent execution of reforestation activities with the Pinus caribaea in 2018, as stipulated in the Standard and the BCR0001 methodology, five years before the validation process began, in consideration of the BCR V3.3 Standard rules.

ICONTEC, after reviewing the supporting documents and the information gathered in the audit process, considers that the project start date and duration of the project is adequate.

5.5.2 *Application of the selected methodology and tools*

5.5.2.1 Title and Reference

The Proyecto Forestal Alcaraván Orinoquía is based on the application of the "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024" for carbon calculations.

Tools such as:

- *AR-AM-TOOL16 "Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities", evaluated in the baseline scenario and with Project.*
- *AR-AM-TOOL15 "Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity", evaluated in the baseline scenario and with the project.*
- *AR-TOOL14 "Estimation of carbon stocks and change in carbon stocks in dead wood and litter in A/R CDM project activities."*
- *BCR Tool. Avoiding double counting (ADC). BCR avoid double counting of emissions reductions/removals. Biocarbon Registry. Version 1.0. March 9, 2023.*
- *BCR Tool. Monitoring, reporting and verification (MRV). BCR carbon credits are quantified, monitored, reported, and verified. Biocarbon Registry. Version 1.0. February 13, 2023.*
- *No Net Harm Environmental and Social Safeguards (NNH). BCR Tool. BCR project activities do not cause any net-harm to the environment or to local communities and society in general. Version 1.0. March 7, 2023.*
- *Biocarbon Guidelines. Baseline and Additionality. GHG Projects generate Verified Carbon Credits (VCC) that represent emissions reductions, avoidance, or removals that are additional. Version 1.2. September 27, 2023.*

- *Permanence and Risk Management. BCR Tool. BCR Project holder take actions to ensure the Project benefits are maintained over time. Version 1.0. March 7, 2023.*
- *BCR TOOL. SUSTAINABLE DEVELOPMENT GOALS (SDG). Version 1.0. June 2023.*
- *BCR Guidance Methodologies Development and approval. Version 1.1. January30, 2024*

5.5.2.2 Applicability

The project complies with the methodology mentioned in the previous chapter, due to the following conditions, which are established in the methodological document in chapter 5:

1. From the review of the project 's cartography and through historical satellite images available on Google Earth, it was possible to show that, at the beginning of the project not even five years ago to the start date, the areas of the project did not correspond to the category of forest or natural vegetation cover different from forest.

2. From the review of the project's cartography, the official layer of RAMSAR wetlands and through satellite images available on Google Earth, it was possible to show that the project areas do not have areas categorized as wetlands.

3. From the review of the project's cartography, the official soil layer of the IGAC and the FAO's Global Soil Organic Carbon Map, it was possible to show that the project areas do not have organic soils with organic carbon content greater than or equal of 12%.

4. Through the information related to the quantification of the carbon stock in the project's reservoirs, it was evident that the project's activities aim to increase, with respect to the baseline scenario, the carbon stocks in matter in soil, leaf litter and dead litter.

5. During the site visit and through Google Earth satellite images, it was evident that flood irrigation is not used, and the project's forest plantations have not been subjected to such situations.

6. As specified in paragraphs 2, 3 and 5, the soils of the project do not correspond to organic soils nor are they subject to flood irrigation; therefore, the effects of drainage are negligible and GHG emissions, other than CO2, can be omitted.

7. Through the information related to the Plant Plan and the Forest Establishment and Management Plan of the project, and the visit to the forest plantations, it was evident that the only alteration of the soil attributable to the project activity is the preparation of the site for the establishment of the plantations, which is carried out through soil conservation practices.

The Proyecto Forestal Alcarávan Orinoquia is in the category Activities in the AFOLU sector, other than REDD+, and complies with the conditions of applicability of the BCR Standard and the AR methodological document.

Conditions of applicability of the guidelines	Meets	Description of Compliance
The methodological documents contain the applicability criteria and detailed steps for the quantification and **monitoring of the results against the design and implementation of GHG mitigation initiatives and other GHG projects, by given project type**.	yes	The initiative is developed in accordance with the guidelines of the AR Methodological document.
The holders of GHG mitigation initiatives, in the AFOLU sector, can only certify and register, in this program, those initiatives whose start date is defined within the five (5) years prior to the start of the validation.	yes	The start date of the project is 04/11/2018 and is within the 5 years prior to validation[1]. Section 5.5.1 of this report details the assessment of the start date.
The owner of the GHG project must demonstrate that it complies with the legislation related to activities conducted in the field of GHG mitigation.	yes	The project demonstrates compliance with the country's laws, statutes, and other regulatory frameworks

For the review of the applicability of the tools:

AR-AM-TOOL16

1. It is not a wetland area.

2. Considering Annex 4.1 Glossary for forest lands, soils are organic if they meet requirements I and II, or I and III according to FAO, 1998, which would be as follows:

I) Organic horizon thickness greater than 10 cm, if it has a thickness of less than 20 cm it must have 12% or more organic carbon when mixed at this depth.

II) Soils that are never saturated with water for more than a few days should contain more than 20% of Organic Carbon by weight (about 35% organic matter)

III) Soils are subject to episodes of water saturation and have a) At least 12% organic carbon by weight (20% organic matter) if the soil does not have clay; or (b) at least 18% organic

[1] The Validation of the Project began on 15/12/2022, thus complying with "The validation begins once a commercial agreement is signed with the OEC or with the first-party auditor"

carbon by weight (30% organic matter) if the soil has 60% or more clay; or (c) an intermediate and proportional amount of organic carbon for intermediate amounts of clay.

AR-AM-TOOL15

This tool is not applicable if the displacement of agricultural activities is expected to lead to drainage of wetlands or peatlands directly or indirectly.

Therefore, the project complies with the applicability of the methodology and tools used.

Section 3.1.1 of the PD, present the applicability conditions derived from the methodological tools used by the project. ICONTEC reviewed all the documents and de baseline scenario, site eligibility, leakage assessment, project preconditions and supporting information provided to justify the applicability of the project and the audit team conclude that the project proponent address each of these applicability conditions correctly and including consistency between the requirements and the project activity, in the PD.

At the same time, the audit team through an exhaustive review and cross-checking, corroborated that the methodology and tools involved are applicable to the project activity and were correctly justified and applied with respect to the next information:

1. *Project boundaries*
2. *Baseline identification*
3. *Formulas for determining emission reductions/removals.*
4. *Additionality*
5. *Methodology*
6. *Monitoring*

5.5.2.3 Methodology deviations (if applicable)

For the current verification period there are no methodological deviations.

5.5.3 *Project boundary, sources and GHGs*

The project boundaries, the reference areas for the audit period were 100% verified using the information provided by the organization, located in the 14_GIS folder, along with the field visit for the identification of the eligible areas and establishment of the project. The dasometric information that determines the aboveground and groundwater biomass by stratum within the project boundaries was verified with the remeasurement of the plots. As a result, 13 plots were reviewed in person and identified that the information collected during the field audit and previous review at the desk is within the established confidence limits.

Table 18. Plots verified in the on-site audit.

Stratum	Options	Quantity
Eucalyptus pellita 2018	Plot 40 of LUIS FERNANDO RODRIGUEZ Eucalyptus pellita 2018	3
	Plot 10 of ENLACE ROJO SAS Eucalyptus pellita 2018	
	Plot 9 of ENLACE ROJO SAS Eucalyptus pellita 2018	
Pinus caribaea 2018	Plot 74 de CLAUDIA HUERFANO Pinus caribaea 2018	2
	Plot 71 de CLAUDIA HUERFANO Pinus caribaea 2018	
Acacia mangium 2020	Plot 232 ECOLOGIC SAS Acacia Mangium 2020	2
	Plot 239 ECOLOGIC SAS Acacia Mangium 2020	
Acacia mangium 2021	Plot 12 of ECOSISTEMA PRODUCTIVO MATAEMONTE SAS Acacia mangium 2021	3
	Plot 240 SULTANA SAS Acacia mangium 2021	
	Plot 239 SULTANA SAS Acacia mangium 2021	
Eucalyptus pellita 2019	Plot 25 of ENLACE ROJO SAS Eucalyptus pellita 2019	2
	Plot 23 of ENLACE ROJO SAS Eucalyptus pellita 2019	
Eucalyptus pellita 2020	Plot 6 of ENLACE ROJO SAS Eucalyptus pellita 2020	2
	Plot 11 of ENLACE ROJO SAS Eucalyptus pellita 2020	

Through sampling, ICONTEC verified the capacity to comply with the legal or regulatory requirements applicable to the GHG mitigation project established by identifying, planning its compliance, implementing, and verifying compliance by the Organization. ICONTEC, as a validation and verification body, is confident that the information provided by the project developer is reliable and traceable.

Monitoring of carbon reservoirs is carried out using permanent plots, a process that is described in detail in section 3.4 of this report.

The following are the sources of information of the project that complied with the defined levels of assurance and materiality:

- *Project Design Document*
- *Documentary review of primary sources (baseline and project scenario, project mapping, implementation activities, forest inventory, Forest Establishment and Management Plan, legal information, etc.)*
- *Documentary review of secondary sources (environmental legislation, official cartography, Google Earth satellite images, quantification parameters, characterization sheets of forest species, etc.)*

In chapter 5.1 of this document, you can find all the information related to the selection and justification of carbon deposits.

All versions of the validation and verification report, before being sent to the customer, are subject to an independent internal technical review to confirm that all activities have been completed in accordance with ICONTEC's procedures. The technical review was carried out by a qualified technical review team in accordance with the ICONTEC qualification scheme to provide validation and verification services for GHG mitigation projects.

5.5.3.1 Eligible areas in the GHG project boundaries (for AFOLU projects)

The project developer, to comply with section 10 of the "eligible areas for ARR projects" methodology, demonstrated through the cartography that he provided based on satellite images and a coverage study that he presents within the attached documents, that these areas do not correspond to the forest category, not even five years before the start date of the project.

All cartographic information is reliable information from reliable sources, the developer carried out a temporal analysis where said eligibility is demonstrated. ICONTEC carried out a Croscheck of the information, verifying the layers and polygons related to said eligible areas and agrees with the results presented.

ICONTEC were processed with the support of geographic information system software, through the comparative analysis between them we searched for the plantation areas, these correspond to eligible areas. The analyses were carried out using QGIS software and identified a total of 1.094,43 ha of plantation.

5.5.4 Baseline or reference scenario

The baseline scenario is defined and supported considering the requirements of the baseline and Biocarbon Guidelines Baseline and Additionality. GHG Project generate Verified Carbon Credits (VCC) that represent emissions reductions, avoidance, or removals that are additional V1.2 of September 27, 2023, representing the sum of the changes that would occur in the carbon stock of the reservoirs within the project boundary. In this case, the vegetation cover that existed before the implementation of the project activities corresponded mostly to clean pastures and a mosaic of pastures with natural spaces that, in the absence of the project, could have been degraded due to traditional livestock use.

The audit team considered that the assumptions used in the identification of the baseline are properly justified and the sources of information used for its estimations are considered reasonable. In other words, the results derived from the procedures used to identify them potentially represent what would have happened in the absence of the GHG mitigation initiative. All the information to determinate additionality is found within the chapter 5.5.5 of this document.

As part of the validation/verification of the baseline, the cartographic analysis was reviewed, its consistency with the applicable regulations, the application of the indirect methods used for the estimation of aboveground and groundwater biomass and the related documentation in the project, as a secondary source of information that corresponds to a greater extent to regional and national standards.

The total biomass in the project's baseline scenario is accounted for using secondary data according to studies carried out by IDEAM (Yepes et al, 2011b) to subsequently calculate the tones of carbon equivalent per hectare in each cover.

Table 19. Removals generated in the scenario without a project.

Coverage	Carbon stock (tCO2e)	Area (ha)	Area (%)
2.3.1. Clean pastures	5.379	840,52	76.80%
2.4.4. Mosaic of pastures with natural spaces	1.473	253,92	23.20%
Total	**6.852**	**1.094,43**	**100,00%**

- *The assumptions and data used in the identification of the baseline scenario are properly justified, supported by evidence, and considered reasonable.*

- *The documentary evidence used to determine the baseline scenario is relevant, cited, and correctly interpreted in the project description (PD).*
- *Relevant national or sectoral policies have been considered and listed in the project description (PD), as evidenced in chapters 6.1 and 6.2 of the project document.*
- *The procedures for identifying the baseline scenario have been correctly followed and the identified scenario represents, in a reasonable manner, what would have occurred in the absence of the GHG mitigation project.*

ICONTEC has reviewed the information corresponding to the project's baseline scenario, The baseline scenario is established considering the changes in carbon stocks at the project boundaries, identification the most likely land use at the start of the project, according to the guidelines established.

5.5.5 Additionality

The Proyecto Forestal Alcaraván Orinoquía, in numeral 3.4 of the PD, identifies the baseline and additionality, to follow the guidelines of the Methodological Document of the "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024", and Biocarbon Guidelines Baseline and Additionality. GHG Project generate Verified Carbon Credits (VCC) that represent emissions reductions, avoidance, or removals that are additional V1.2 of September 27, 2023, and meets criterion C of these "changes in carbon stocks within the project boundaries, identifying the most likely land use at the start of the project".

Complying with the "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024" and the "Biocarbon Guidelines Baseline and Additionality. GHG Project generate Verified Carbon Credits (VCC) that represent emissions reductions, avoidance, or removals that are additional V1.2 of September 27, 2023, those projects that comply with the barrier analysis or an investment analysis according to the Baseline and Additionality document found in chapter 8.2 and in the methodology found in chapter 11.2, the Proyecto Forestal Alcaraván Orinoquía, opted for the selection of a barrier analysis and complies with steps 0, 1, 3 and 4.

Step 0: The project start date is April 11, 2018.

Step 1: It is justified that carbon dioxide equivalent (CO_2e) removals would not have occurred in the absence of the implementation of the initiative according to the most likely use without the project, or due to requirements attributable to actions required by law; thus, generating a positive change to climate change mitigation, based on the evaluation of acceptance by barrier analysis.

To determine the carbon dioxide removals generated in the area, the Carbon Stock present in covers proposed by (Yepes et al., 2011), for the scenario without a project, a 6,852 tCO_2e

potential is established for the lifetime of the initiative. In contrast, for the Ex-Ante removals, a 517,055 tCO2e potential is recognized, higher by 510,153 tCO2e, which further reveals the additionality character of the project.

Identification of land use alternatives, where the project identifies the most likely land use scenarios, which could be the baseline scenario, determining 4 scenarios: 1. Pastures for livestock, 2. mosaic of pastures, crops, and natural spaces, 3. unproductive pastures and 4. commercial reforestation that may include PRGEI.

Evaluating the consistency with environmental, social, technological, and economic contexts, consistency of land use alternatives with applicable laws and regulations, resulting in this project:

Table 20. Qualification of the viability of land uses.

Land use	Political - Legal	Environmental	Social	Technological	Economic	Result
Pastures for livestock	3	1	2	2	3	**11**
Mosaic of pastures, crops and natural spaces	3	2	2	3	3	**13**
Unproductive Parturitions	2	3	2	2	1	**10**
Commercial reforestation that may include PRGEI	3	3	3	3	2	**14**

The impact quantification is given according to the viability of the land use in regards of the political, environmental, social, technological, and economic context. Values were assigned as follows:

1. *Is a context that does not show viability for this land use.*

2. *Is a context that provides the basic elements for land use to manifest.*

3. *Is a context that provides all the necessary elements for the use of the land to be carried out.*

According to the methodology of the standard (BioCarbon) and its guidelines for additionality and baseline, the GHG Project generates Verified Carbon Credits that represent additional emission reductions, avoidance or removals according to the standard V1.2 of September 27, 2023, reduce the impact of the identified barriers and allow the project to be carried out, according to the demonstrating compliance with the barrier analysis (Step 2).

The project identified seven (7) sub-barriers, mainly related to investment and technology; With the implementation of the GHG Project, six (6) of these barriers are intended to be overcome, particularly those related to investment. Through carbon credits trading, private investment interest is generated without necessarily relying on financial assistance, allowing for faster capital returns.

The actions mentioned above allows access to medium-sized forestry companies participating in the project to establish technical support mechanisms through authorized and specialized technical personnel, suitable for the establishment and management of the plantation. This has a positive impact on other possible uses of the land, thanks to the training provided to local workers.

The carbon market has grown, this observation has been made in accordance with the international emissions reduction goals for each nation based on the principles of the United Nations Framework Convention on Climate Change and its Kyoto protocol.

Therefore, forestry activities for GHG removal gain value as alternatives and mechanisms to eliminate these gases from the atmosphere, through commercial forest plantations and other tree-based production systems (crops with planted trees) and contribute to the economic strength, permanence and increase in the technical capacity of the associated community in terms of reforestation activities.

For Step 4: As a complement to the steps above, an analysis is carried out of the degree to which forestry activity has already spread in the geographical area of the project activity, highlighting that other registered A/R project activities will not be included in this analysis. Being only 8% of the total surface suitable for forest plantations and indicating that in the region it is not a common practice within its economic activities and, this industry represents less than 1% of the national GDP.

This may be because, historically, the development of commercial plantations in Colombia has been suboptimal given the low productivity and competitiveness of the forestry sector in the country, which has prevented full use of the different types of benefits in economic and environmental terms that offer this type of projects

The supporting documents of these analyses were reviewed and evidenced in chapter 2.2 and ANEX 5 of this document where the analysis and the results supported within the PD are supported.

The project then demonstrated benefits through commercial reforestation projects, benefiting from incentives derived from the sale of carbon credits and the incentives derived from this, reduce the impact of the identified barriers by complying with the methodology with the anthropogenic net elimination of greenhouse gases by sinks and the financial benefits of the income obtained from the sale of CCVs including certainty and the predefined time of entry.

Since the mitigation project must be registered in the RENARE by national law and must have the additionality criteria expressed in article 26 of the same, SAF 01 is contemplated and can be reviewed in ANNEX 2 of this document; In the same way, GHG removals resulting from the implementation of forestry GHG removal activities, which are carried out in areas other than the forest classification and demonstrate a positive net change in the carbon stores of the area, are considered additional.

ICONTEC validated and verified the information submitted by the project, to determine compliance with the additionality analyses presented within the relevant documents.

LEAKS:

In accordance with the "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024", and AR-ACM003, as indicated in this document, the AR-AM-TOOL-15 V2.0 tool is applied for the estimation of the increase in GHG emissions, attributable to the displacement of pre-project agricultural activities, where leaks occur when the displacement of agricultural activities generates an increase in GHG emissions. because of the project activities and carried out within the boundaries of the project.

To demonstrate that it is insignificant, the developer calculated the carrying capacity of the land, vs the number of cattle censused by the ICA, in the years 2016 and 2023. The average value of the municipalities of Puerto Gaitán and Puerto Lleras is 0.31 cattle per hectare and for the department of Meta it is 0.48 cattle per hectare, in Cumaribo it is 0.07 cattle per hectare lower than the average of Vichada which is 0.05 cattle per hectare as evidenced in the document "Carrying Capacity Municipal.xlsx"

5.5.6 Conservative approach and uncertainty management

The uncertainty for the calculation of GHG reductions tool into account the considerations of the document: "BCR tool. Monitoring, Reporting and Verification (MRV) BCR carbon credits are quantified, monitored, reported, and verified. Version 1.0 February 13,2023". For this purpose, the project presents within the spreadsheets the information used with a conservative approach, national references, and the calculation of the uncertainty of the quantifications and cartographic information. Uncertainty is determined by the accuracy of the maps used to estimate the emissions calculations, the eligible areas, the location of the plots, and the use of field-reported information on the ground and the survey of information field,

Uncertainty is managed through the application of discounts in emission factors, where the acceptable uncertainty is 10% in the use of average carbon values. The identification of the uncertainty associated with forest monitoring data is based on the evaluation of the sampling error of the values collected from the forest deposits, under random stratified sampling for the carbon stock present in the area biomass, litter, and carbon. soil organic; In this way, it was determined that the sampling error is 9.89%, being consistent with the admitted values, therefore it is not necessary to apply any discount factor associated with the uncertainty of the forest monitoring data.

ICONTEC, based on the documentary review and the review of the plots in the field, was able to confirm the application by the developer of the following measurement protocols: Protocol for the measurement for the permanent growth of plots. This was done hand in hand with ECOLOGIC SAS, and it was based on the Guide for the quantification of biomass and forest carbon, the generation of models, and the use of tools developed by Corporación Autónoma de Cundinamarca for its estimation. Additionally, the audit team had access to the calculations for the sampling, where the information of the sampling plots and field measurements are reported.

In consideration of the above, ICONTEC can conclude that the primary information, the protocols for collecting and measuring the information and the uncertainty estimates for the emission factors were correctly applied and calculated.

5.5.7 Leakage and non- permanence

The estimation of the project leaks was carried out in accordance with the AR-ACM003 methodology, for the leak analysis the application of the AR-Tool15 methodological tool, A/R Methodological Tool (estimation of the increase in GHG emissions, attributable to the displacement of pre-project agricultural activities) V2.0, and according to section 15.3 of methodology.

According to the latest Standard of the project, a reserve of 20% of the total quantified GHG removals for each verified period is deducted and maintained. This reserve is made to ensure that if events occur that require the replenishment of credits placed in the market, these will be covered with this 20%.

The audit team satisfactorily validated and verified that the permanence risks of the project will be evaluated during each monitoring period in accordance with the guidelines of the Permanence and risk management tool version 1.0 of March 7, 2023, and the procedures of the established Monitoring Plan.

Specifically, a description of the risk, mitigation and qualification measures will be carried out in accordance with a known methodology. The occurrence of natural and anthropogenic disturbances that affect carbon reserves will also be subject to monitoring, evaluation, and estimation during the monitoring periods.

Project permanence monitoring will be developed at each periodic verification previously stipulated by the project owner, under the indicators and procedures established within the PD.

5.6 Monitoring plan

ICONTEC was able to review the quality controls of the information and the chain of custody of the data from formulation and monitoring to traceability to arrive at an adequate distribution of the benefits or the project.

In accordance with the applicable validation requirements related to the monitoring plan the compliance assessment was evaluated with the following items:

a) *Data and information necessary to estimate GHG reductions or removals during the quantification period.*

   All data and parameters monitored are found above this chapter, the monitoring for the estimation of removals is carried out according to the verification periods stipulated by the project and under the guidelines of the BCR0001 methodology. In each verification period the activity data must be monitored. The emission factors to be considered correspond to those initially validated and presented in section 5.5 of this report.

b) *Supplementary data and information to determine the baseline or reference scenario.*
   The procedures and data used to determine the baseline scenario are found in the chapter 5.5.4 of this report, based on the information presented and the cartographic analysis, ICONTEC can conclude that the baseline was correctly delimited and quantified as evidenced in the GIS supports and spreadsheets. On the other hand, baseline scenario monitoring does not apply periodically unless a revalidation of the baseline is required.

c) *Specification of all potential emissions occurring outside the Project boundaries attributable to Project GHG activities (leakage).*
   All the results and procedures for determining leaks through carrying capacity are shown in chapter 5.5.5 of this report.

d) *Information related to the assessment of the environmental and social impacts of project activities.*
   To assess the environmental and social impacts of project activities, the developer used tool "No Net Harm Environmental and Social Safeguards (NNH). V1. March 07, 2023", in which an analysis of associated socioeconomic impacts was made.
   All the information is conducted in chapter 8 and 15.7 of the PDD.

e) *Procedures established for the management of GHG reductions or removals and related quality control for monitoring activities.*
   The quality control and quality Assurance Procedures for the project are presented in section 16 of the PD.
   Through the implementation manuals, procedures, guidelines, and formats, it is ensured that the requirements and expectation indicated in the methodology.

ICONTEC was able to review the quality controls of the information and the chain of custody of the data from formulation and monitoring to traceability to arrive at an adequate distribution of the benefits of the project.

f) Description of the methods defined for the periodic calculation of GHG reductions or removals and leakage.
In section 16, of the PD, the developer defines the measures to be considered for the implementation of the methodology, and in the section 5.6 of this report with all information about methods and all the equations and procedures for obtaining the data on greenhouse gas removals.

g) The assignment of roles and responsibilities for monitoring and reporting the relevant variables for the calculation of reductions or eliminations.
In section 5 to the PD established the information review process and details to the responsibilities of the parties involved in the project, ownerships, and rights.
In this way is possible to identify the quality

h) Procedures related to the assessment of the project´s contribution to the Sustainable Development Goals (SDGs);
The project correctly applied the "Tool for the determination of contributions to the fulfillment of the Sustainable Development Goals (SDGs) of Greenhouse Gas (GHG) mitigation projects", in accordance with the provisions provided by the Biocarbon Registry Standard. Under this premise and considering the project typology (ARR).
ICONTEC had access to this document and was able to corroborate that the SDGs identified and selected by the project are in line with those applicable to ARR activities.
The monitoring plan established a clear mechanism to identified for each SDG, the associated activities, requirements, responsible party, indicators, and monitoring frequency, among others. This is considered by the audit team as adequate in terms of the established procedure for the evaluation of each monitoring.

i) Criteria and indicators related to the project´s contribution to sustainable development objectives.
According to the SDG Tool, it was identified that some SDG were indicated by default, which implies that they are mandatory. Accordingly, the developer identified those indicators and targets applicable by SDG, as listed in chapter 6.4 of this report.

j) Procedures associated with the follow-up of co-benefits of the special category, as applicable.
The "No Net Harm" Tool states in the Monitoring plan section that the project owner will design and implement a monitoring plan, and according to item "k" to this section, the application of the defined criteria and indicators to demonstrate co-benefits and the measurement of co-benefits and special category, when applicable, must be related.
Under this requirement, the developer prepared the co-benefits Monitoring Plan which establishes the activities to be developed for identification of indicators, responsible parties, and follow-up period during the life of the project.

k) Defined criteria and indicators to demonstrate the additional benefits and the measurement of Co-benefits and the specific category, as applicable.

For the project this section does not apply.

ICONTEC was able to confirm that is possible to identify that the project activities are directly related to the sustainable management of the properties, and it's evident that the incorporation of women in the projects and strengthening their role in rural areas are part of the project´s goals.

In accordance with section 9 and 20 of the Biocarbon Registry Standard, the following criteria were evaluated:

a) *National circumstances and the context of the GHG project.*
   The project proponent, using a scenario defined from the environmental legal matrix, applied the adjustments for national circumstances and all the environmental regulations. All the information related to the analysis of national circumstances are found in chapter 5.7 of this document.
b) *Monitoring good practices, adequate for the follow up-, and control of the activities of the GHG mitigation effort.*
   ICONTEC can confirm that all indicators of importance for the project performance monitoring and reporting have been incorporated into the project monitoring plan. The frequency, responsibility and authority for recording, monitoring, measuring, and reporting of the project activities and plots have been clearly developed with a "best practice" management system, which has also established effective training measures, as well as stipulations explained within the methods and protocol being used.
c) *Procedures to ensure data quality under ISO 14064-2.*
   The reported parameters, including their source, monitoring frequency and review criteria for measurements and equipment management, as stated in the PD and MR, were verified as correct. The required management system procedures, including responsibility and authority for monitoring activities, were verified to be consistent with the PD. The audit team found that the knowledge of personnel associated with project monitoring activities was satisfactory.

5.7 Compliance with applicable legislation

To ensure compliance with applicable legislation, the project owner follows the policies and methodologies established for the development of projects related to climate change. These policies are designed to identify and follow up on the legal requirements established on issues related to the project, its participants, areas of impact and compliance activities, this approach allows mitigating future legal risks given that its actions in the development of a project are carried out within the established legal limits.

The audit team validated and verified that the project satisfactorily describes and justifies compliance with the requirements related to laws, decrees and resolutions framed in environmental regulations, climate change and territorial planning. More detailed information is found in section 4 of the PD.

Table 21. Laws

Rule or law	Type (Legal, Environmental, Other)	Applicability/Compliance (full or partial)	Justification
Resolution 1447 of 2018	Legal	Total	The initiative is in the process of being registered on the RENARE platform, once it is enabled and a SAF is generated with respect to compliance (it is inactive at the time of the audit). The project is in the process of certification with BCR0001 V4.0 and complies with the regulations described for Afforestation and Reforestation projects.
Decree Law 2811 of 1974 • **National Code of Renewable Natural Resources and Environmental Protection**	Environmental & Legal	Total	The verification process is carried out with the management of the forest soil and the areas established within Article 202 with the zones related as forest areas. Periodic review by the developer of chapters II and III with respect to forest harvesting.
Single Regulatory Decree 1625 of 2016	Environmental & Legal	Total	The initiative takes this into account for the development of the project and considers everything related to the definitions and other characteristics of the national carbon tax, so that it regulates the procedure to make effective the non-causation of the carbon tax. The carbon tax is an economic tool that seeks to discourage the emission of greenhouse gases (GHG) derived from the consumption of fossil fuels, with the aim of mitigating climate change. This measure is implemented by imposing an additional levy on fossil fuels based on their carbon content.
Law 1333 of 2009	Environmental & Legal	Total	This law defines the environmental sanctioning procedure. The proponent of the project must indicate, together with the environmental legal analysis, the area of influence of the project and that it does not influence any sanction.
Resolution 500.41.13-1571	Environmental	Total	This resolution modifies Resolution 200.41.11-1130 of 2011, which establishes the general criteria for the implementation of forestry, agricultural and agro-industrial projects in the jurisdiction of CORPORINOQUIA.
National Climate Change Policy	Environmental & Legal	Total	The main objective of the policy is to promote climate change management through low-carbon climate-resilient development management. The policy proposes

Rule or law	Type (Legal, Environmental, Other)	Applicability/Compliance (full or partial)	Justification
			a series of general and sectoral territorial strategies, as well as guidelines for their articulation. The Initiative contemplates it for the realization of the project
Law 1377 of 2010	*Legal*	*Total*	*This law focuses on the regulation of commercial reforestation activities, specifically defining and establishing the regulation of forest plantations and agroforestry systems for commercial purposes.* *The project was registered with the ICA (folder 11_ Environmental legislation/Records ICA)* *The plantations have not generated permits for mobilization and free use, which is why this point has not been requested.* *Within the eligible areas of the project, the review of natural areas and strategic ecosystems was carried out to comply with the law, and compliance with the eligibility of these areas was adequately reported by the developer and is evaluated in previous chapters.*
CONPES (3125 of 2001)	*Environmental & Legal*	*Partial*	*This regulation was created with the aim of improving the management of forest resources, improving the living conditions of populations occupying forest territories and offering viable productive alternatives.* *The verification of the project is generating a regional productive activity, which has been generating development within the project areas as demonstrated in the DP and the RM.*
Decree 2803 of 2010	*Legal*	*Total*	*This decree regulates Decree 2803 of 2010 related to the registration of forest crops and agroforestry systems for commercial purposes, protective-producing plantations, and the mobilization of forest products.* *The project has areas of commercial forest plantations with species such as Eucalyptus, Acacia and Pine, which have ICA registration and comply with Decree 2803 of 2010.*
Law 299 of 1996	*Legal*	*Total*	*The conservation, protection, propagation, search, knowledge, and sustainable use of Colombian flora resources are strategic for the country and constitute a priority with environmental policies.* *Within the project areas, the flows are protected and delimited, including the gallery forest covers and all the vegetation present in the 30 contiguous meters on each side of the river, this information was reviewed by means*

Rule or law	Type (Legal, Environmental, Other)	Applicability/Compliance (full or partial)	Justification
			of cartography and is not part of the eligible areas of the project.

ICONTEC did not detect any non-compliance with laws and regulations during the in-situ audit or documentary review.

ICONTEC confirmed the compliance capacity with all the applicable legal requirements for the project, as established in the PD and MR. This validation and verification identify the standards, laws or resolutions and conducting an analysis of their application and compliance context. In addition, the project also has measures in place to continuously monitor potential changes in relevant legislative aspects.

5.8 Carbon ownership and rights

The audit team carries out the review of land tenure or legal ownership for 8 reforestation initiatives in the Orinoquía region, whit 8 reforestation owners, located in the departments of Meta and Vichada, whose ownership is correctly demonstrated in accordance with the requirements of the BCR standard and the methodologies used.

The property rights based on the legal analysis and supported by the documents provided in the process (Agreements, letters of intent, confidentiality agreement, contract of engagement and tenure documents) are analyzed for this purpose, from this analysis it is established that 8 properties complied with the necessary documents to determine the type of tenure, classified as owners, possessors and/or holders of the same, which were enrolled formally with the organization accepting the commitment to develop climate change mitigation activities in each of their properties.

In addition to the above, it's important to highlight that the responsible party for the CO2CERO demonstrated that none of the properties associated with the project are in process of restitution, nor do they have conflicts related to dispossession or abandonment due to the armed conflict. Likewise, it was verified that there are no sanctions or environmental infractions on these properties, and they do not have any disciplinary, judicial, or criminal records.

ICONTEC was able to corroborate the legal quality of the land tenure and land use rights and the area within the Project boundaries and the totality of the contracts signed between the parties, thus concluding that the process was carried out properly.

The audit team concluded that the analyses conducted by the project developer are appropriate and the carbon rights in this case belong to the owners who make up the project.

5.9 Risk management

The audit team during the planning development stage verified and reviewed all the information provided by the developer, which led to compliance with the criteria defined for validation and verification, as described in section 1.2 of this document. In Table 6, all evaluation related to risks in the project process is carried out, including control, inherent and detection risks. The developer uses the BCR TOOL PERMANENCE AND RISK MANAGEMENT" V1.0 of March 7, 2023. In the PD, the developer within chapter 3.13 has an estimate of the identified costs of the project, where those financial dimensions of the project phases are contemplated, contemplating the planting and maintenance of the crop, production, and sale.

The draft proposal according to the "BCR TOOL PERMANENCE AND RISK MANAGEMENT" V1.0 of March 7, 2023, relates the risks within chapter 17. Risk management to comply with regulations.

The risk analysis through the evaluation of the potential impact and the probability of occurrence obtained ratings for each of the risks, all the risk was identified in the excel document: 13_Monitoring report/05_Risk_management/Risk_Management_Alcaravan_V1.xlsx, and the levels are High risk (3 points), Medium risk (2 points) and Low risk (1 point).

Table 22. Rating risk level

Rating	Level	Description
3	*High Risk*	*The associated reversion risk can impact more than 10% of the carbon benefits accumulated by the project up to the verification point.*
2	*Medium risk*	*The associated reversion risk impacts between 10 and 5% of the issued VCC.*
1	*Low risk*	*Less than 5% of the VCC are released.*

The Developer, categorized based on the level of control by competent authorities and the eight project participants defined according to the area in which the impact may occur, so the next table identified levels of control:

Table 23. Level of risk control

Level of control	
Rating	**Description**
A	It is within its control area	Being within the control area allows the creation of mitigation, prevention, or correction mechanisms.
B	It is within its influence area	There is no direct control over the risk, but influence can be exerted on those who do.
C	It is outside its influence area	There is no direct or indirect control or influence over the causes of the risks.

The results for the Risk management project are:

Type	Risk	Level of control	Level of risk	Mitigation measure	Indicator
Environmental	Forest fires	A	3	Establishing early warning mechanisms for fires and their suppression	Number of controlled fires per unit area (number of records per hectare)
				Training for the reforesters to eliminate burning as a practice in crop establishment.	Number of individuals trained, categorized by gender and age per unit of time.
	Floods	C	1	Establishing communication mechanisms for early warnings during periods of heavy rainfall and tropical storms.	Number of reports related to floods per project site (hectares)
				Coordinating with competent local, national, and international organizations for early and necessary assistance in damage repair.	Aid received from competent organizations per Project duration (time)
	Strong winds	C	1	Conduct regular inspections of the project's areas, infrastructure, and support elements to ensure they are in good condition and resistant to any potential winds.	Number of inspections conducted on each project sit per unit of time
				Training sessions for project participants to familiarize them with nationally established measures in the event of strong winds in the area.	Number of individuals trained, categorized by gender and age per unit of time.

Type	Risk	Level of control	Level of risk	Mitigation measure	Indicator
	Pests and diseases	A	3	Regular monitoring of the condition of tree individuals in the project area to promptly identify any pathogenic agent affecting the plantation	Number of trees assessed per total of trees planted per plot.
				Implementation of an integrated pest and disease management plan	Number of plans per total participants.
	Generation of Noise and Air Pollution from Vehicle and Machinery Use	A	1	Preventive maintenance to prevent uncontrolled noise emissions	Number of vehicles and machinery inspected per total of machinery used.
				Training for project participants on noise control and hearing care	Number of individuals trained, categorized by gender and age per unit of time.
Financial	Potential losses in the value of carbon credits generated by the project because of market fluctuations	C	3	Creating market value with a focus on technical and social management	Number of carbon credits sold per unit of time.
				Establishing marketing strategies for carbon credits that are more appealing at the local, national, and international levels	
	Operational Risk due to Human Errors, Inadequate or Defective Processes, System Failures, and External Events.	A	1	Monitoring the organizational operations of the companies for participants to prevent risks.	Number of meetings held among project stakeholders per unit of time during the project duration.
				Carry out the accountability process within established timelines to verify progress in project activities.	

Type	Risk	Level of control	Level of risk	Mitigation measure	Indicator
	Financial capacity of the project holder	A and C	3	Carry out an accountability process at specified intervals to verify progress in project activities.	Number of meetings held among the project participants per unit of time during the project duration.
	Risks that jeopardize the resources allocated in the budget for the establishment and maintenance of the project	A	3	Regular monitor the project progress and periodically review its budget and costs.	Number of financial reviews conducted per unit of time during the project's duration.
				Implement a detailed financial plan, including detailed and conservative costs and budgets for the project.	Number of financial plans per projects duration (time).
Social	Change of Ownership due to Illness or Death of the Holder	A and C	2	Establish direct and efficient means of communication among project participants to promptly address any eventualities that may arise.	Number of meetings held among project participants per unit of time during the project.
				Have solid contracts and agreements that specify the responsibilities and commitments of the parties involved in the project.	Number of clauses present in the agreements signed by legal representatives.
	Land Use Limitation (Mortgage, Sales, Land Exchange for Project Execution)	A	3	Having legal and juridical counseling available to provide guidance on the appropriate measures to take.	Number of contracts and agreements signed and issued to legal representatives.
				Having solid contracts and agreements that specify the responsibilities and commitments of the parties involved in the project.	Number of clauses present in the agreements signed by legal representatives.
	Land Disputes (Invasion Management)	A and C	3	Conducting a thorough analysis regarding the project's applicability conditions.	Number of documents registered per owner/total documentation required from each owner.
				Verify and ensure that property titles are legitimate and properly registered.	
	Occupational safety	A	2	Training on the use of tools and personal protective equipment.	Number of individuals trained, categorized by gender and age per unit of time.

Type	Risk	Level of control	Level of risk	Mitigation measure	Indicator
				Providing personal protective equipment to protect participants	Number of Personal Protective Equipment (PPE) provided to each project participant per total project participants
	Public safety	B	3	Establishing partnerships with reforesters for the control and surveillance of safety in the projects area.	Number of contracts and agreements signed and issued to legal representatives.
				Kidnapping and extortion prevention training	Number of individuals trained, categorized by gender and age per unit of time.

ICONTEC was able to verify through the documentary review and the in situ visit that the risk is analyzed in a detailed and consistent manner and did not detect during the review process any non-compliance with regulations or inconsistencies reported in the project.

This involves deducting a 20% reserve from the Verified Carbon Credits during the accreditation and verification periods, as applicable. The certifying body of the project undertakes this process by placing the reserved credits into an account. This measure aims to ensure the preservation and non-transformation of the conservation areas throughout the project's validity.

ICONTEC, reviewed the information related to the evaluation that the project has carried out with respect to the risks related to the project's activities, and the measures designed to address them if they arise.

5.10 Environmental aspects

Making use of BCR's tool, No Net Harm, Environmental and Social Safeguards (NNH), for BCR Project activities do not cause any net-harm to the environment or to local communities and society in general. V1.0 of March 7, 2023, the Project using this tool demonstrates that it does not cause any net harm to the environment or to local communities or society in general.

All information related to socioeconomic aspects must be reviewed in the following chapter, which will lead to the results shown in the table below. The result is high positive for effects such as Basic Project Services, Health, Food Security, Gender Equality, Economic Growth and Local Labor Hiring, ***Medium Positive*** *for Effects such as Project Housing Infrastructure, Family Quality of Life, Education and Community Relations, Moderate for Effects such as Public Safety and Devaluation of the Carbon Market,* ***Critical*** *for purposes*

such as waste management, occupational safety, limitation of land use, change of property owner, and labor desertion.

And for the evaluation of environmental aspects, the project also took into account the tables below, with the evaluation of 9 effects which are the increase in forest mass, the provision of habitats for fauna, the reduction of pressure on natural ecosystems, the reduction of soil erosion, the reduction of floods, the biological corridor, the generation of noise and air pollution due to the use of vehicles and machinery, the risk of wildfires spreading and the outbreak of pests and diseases. Resulting in the following table.

Table 24. Results for level of environmental importance.

Effect	Character	Intensity	Extension	Persistence	Moment	Reversibility	Recoverability	Qualification	Level of Environmental Importance
Increase in forest cover	1	5	5	5	3			33	Positive : High
Offer of habitats for fauna	1	3	5	5	3			27	Positive : High
Decreasing pressure on natural ecosystems	1	3	5	5	1			25	Positive : Medium
Reduced soil erosion	1	5	5	5	3			33	Positive : High
Decreased flooding	1	3	5	5	3			27	Positive : High
Biological corridor	1	5	5	5	3			33	Positive : High
Generation of noise and air pollution due to the use of vehicles and	-1	3	1	1	5	1	1	-19	Irrelevant

Effect	Character	Intensity	Extension	Persistence	Moment	Reversibility	Recoverability	Qualification	Level of Environmental Importance
machinery									
Increased risk of wildfires spreading	-1	5	5	1	5	5	3	-39	Critical
Pest and disease outbreaks	-1	3	3	1	3	3	1	-23	Moderate

*The result is **high** positive for effects such as Increase in forest mass, Provision of habitats for fauna, Reduction of soil erosion, decrease of floods and biological corridors, **Medium positive** for the effect of decreasing pressure on natural ecosystems, **Irrelevant** for the effect of noise generation and air pollution by the use of vehicles and machinery, moderate for the effect of pest and disease outbreaks, **critical** for the effect of increased risk of wildfire spread.*

The developer identified the potential natural and anthropogenic risks that the GHG mitigation actions may face and determine the necessary measures to mitigate the risks that have just been identified, identified the socioeconomic risks related in this chapter, where the risks associated with all the actors involved within the project were determined in the medium and short term.

ICONTEC carried out a review of all the associated documentation that appears in chapters 13 of the monitoring report and chapters 7, 8 and 9 of the project documents, where the three dimensions that are contemplated are explained in detail, giving clarity of the risks established for the execution of the project.

5.11 Socioeconomic aspects

For the evaluation of the socioeconomic aspect, the project considered 6 categories of analysis (Well-being, gender inclusion, security, territory, production chains and employability in two components: social and economic, resulting in a total of seventeen effects, which are observed below:

Table 25. Categories of analyses for environmental aspects.

Component	Categories of analysis	Effects
Social	Well - Being	Basic services of the project
		Project Housing Infrastructure
		Healt
		Food security
		Education
		Solid Waste Management
		Family Quality of Life
	Gender Inclusion	Gender equality
	Security	Occupational safety
		Public safety
	Territory	Community Engagement
		Limitation of land use
		Change of Ownership
Economic	Productive Chains	Devaluation of the carbon market
		Economic growth
	Employability	Local labor hiring
		Labor dropout

For the socioeconomic evaluation carried out, the following results are obtained for the 17 effects, based on the document " Socioeconomic_evaluation_Alcaravan_V3" and the

Monitoring Report "RM_ALcaravanOrinoquia_V9". Where we found effects, positive, negative effects, a rating of the character of the effect that can be of improvement (1) or detrimental (-1), the effects, were classified into direct effect (The effect of the project activities on the beneficiaries is evaluated), indirect effect (the effect of the project activities on the beneficiaries is evaluated), scope of the effect (the degree of incidence of the effect of the activities at the project and community level is evaluated), magnitude of the effect (The effect of the activity is evaluated according to the increase or decrease of the initial sample), moment of effect (The effect of the activity is evaluated according to the increase or decrease over time) and Persistence of the effect (The effect of the activity is evaluated according to its constancy) within the project universe, Taking into account the above, the following results were obtained:

Table 26.Range of Negative Effects

Negative Effects		
Level of socio-economic importance	**Rank**	**Rank**
Irrelevant	-6	-13
Moderate	-14	-22
Critical	-22	-30

Table 27. Range Positive Effects

Positive Effects		
Level of socio-economic importance	**Rank**	**Rank**
Low	6	13
Middle	14	22
High	22	30

Table 28. Qualification of effects

Effects	Classification of effects according to their rating								Level of socio-economic importance
	Character	Direct	Indirect	Scope	Magnitude	Moment	Persistence	Qualification	
Project basic services	1	5	1	3	5	5	5	24	Positive : High
Project Housing Infrastructure	1	5	1	5	1	3	5	20	Positive : Medium
Health	1	5	1	5	5	5	5	26	Positive : High
Food security	1	5	3	5	5	5	5	28	Positive : High
Solid Waste Management	-1	5	3	5	5	3	5	-26	Critical
Family quality of life	1	3	1	3	5	3	5	20	Positive : Medium
Education	1	3	3	3	3	3	5	20	Positive : Medium
Gender equality	1	5	5	5	3	5	5	28	Positive : High
Occupational safety	-1	5	1	5	5	5	5	-26	Critical
Public safety	-1	5	1	5	3	3	5	-22	Moderate
Community relations	1	1	5	3	3	3	5	20	Positive : Medium
Land use and limitations	-1	5	1	5	5	5	5	-26	Critical
Change of ownership	-1	5	1	5	3	5	5	-24	Critical
Carbon market devaluation	-1	5	1	3	5	5	3	-22	Moderate
Economic growth	1	5	5	1	5	5	5	26	Positive : High

Effects	Classification of effects according to their rating								Level of socio-economic importance
	Character	Direct	Indirect	Scope	Magnitude	Moment	Persistence	Qualification	
Hiring local labor	1	5	3	3	5	5	5	26	Positive : High
Labor dropout	-1	5	1	5	3	5	5	-24	Critical

Application of BCR tool: The evaluation included a check on whether the developer applied the No Net Harm Environmental and Social Safeguards (NNH) during their impact assessment. This involving confirming that the tool was used to identify, assess, and manage potential adverse environmental and social impacts.

Based in all documents, the audit team concluded that the project indeed conducted an analysis of the significant socioeconomic effects of project activities within the project boundaries. The assumptions used were deemed reasonable, and the review results were justified with clear and transparent reasoning.

In terms of the No Net Harm Environmental and Social Safeguards (NNH), it was confirmed that the project holder applied the BCR Tool, ensuring that potential adverse impacts on local communities and society were identified, assessed, and addressed appropriately.

ICONTEC in the site visit and according to the documentary review was able to conclude that the implementation and development of the project does not cause any severe potential socio-economic impact, the developer provides support to highlight the benefits related to the recovery of cover and conservation of forest and forest ecosystems, associated with the activities of the project implementation, compared to the initial conditions.

6 Verification findings

6.1 Project and monitoring plan implementation

6.1.1 Project activities implementation

The verification corresponds to the following monitoring period with respect to the quantification of GHG reduction for the Proyecto Forestal Alcaraván Orinoquía:

- *11/04/2028 to 02/12/2022 for ARR activities.*

The verified information encompasses project monitoring, project activity execution, project sustainability, project emissions, activity data, changes in land use in the project area, greenhouse gas (GHG) emissions during the analysis period, emission reduction/removals

due to project activities, quality control and quality assurance procedures, and finally, a review of information processing, as well as data recording and file system.

The main activity of the Project is forest plantations, these have been taking place since 2018 as described on the start date, within the project areas, 3 species are being used: Acacia mangium, Pinus caribaea and Eucalyptus pellita, all the details of the planting according to the species are found within chapter 2.3 of the project document, and its due justification for use is found within chapter 2.3.4 of the same document, each species is found with its technical sheet and the minimum planting requirements.

This planting and use activity are given by the project cycle of each of the species and the nuclei established within the properties that are part of the project (8 reforesters). All information was validated and verified together with the existing technical sheets of each of the three tree species, the cartography of each owner's property, and the planting dates reported by the reforesters, for cross-checking of the information. ICONTEC manages to corroborate all the information and, together with the inventory information, identify the activities that have been carried out within the project areas.

6.1.2 Monitoring plan implementation and monitoring report

The Project Proponent establishes periodic monitoring of the main components of the mitigation project to ensure control over the variables associated with carbon. Information related to the data needed for carbon estimates is established using commonly accepted principles and practices for commercial plantation management and forest inventories.

The Monitoring Plan describes the methodology used by the project manager to monitor and quantify the reductions/removals attributable to the project's forestry activities.

The monitoring is carried out considering that it is an AFOLU project, which includes GHG removal activities, based on agricultural and forestry activities. It contemplates the execution of a sampling (permanent plots) that is included in the document " Contract_CO2CERO-ECOLOGIC_FP_AlcaravánOrinoquía" that the company established for the measurement of these and was verified during the audit.

During the audit process, the monitored parameters were evaluated and compliance with them was verified, considering the items of the benchmark.

***Quantification Methodology**: The project selected and used quantification methodologies that allow for a reasonable minimization of uncertainty. During the evaluation process, it was verified that the "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024" was properly used.*

***Monitoring of the effective planting areas**: Through a review of the cartography (shape format) and control points during the site visit, it was verified that the verification area*

corresponds to the effective planting areas, there was no evidence of catastrophes and/or recent environmental incidents. The effective areas corresponded to 1,094.43 ha.

***Monitoring of Carbon Reservoirs**: Through the forest inventory spreadsheet and the remeasurement of the selected plots on site, it was possible to corroborate that the parameters used for this process are developed adequately and reliably. The project samples 139 plots in the entire area with a sampling error of 9.86%. The project determines the delimitation of the plots, in which the radius is delimited in plots of 400 m2 and plots of 420 m2.*

The methodology applied for monitoring is relevant to what is described in the document and the methodological reference. ICONTEC reviewed and was able to confirm the monitoring report was performed in consistency with the Monitoring Plan. The monitoring plan is intended to facilitate the monitoring, recording, reporting and verification activities necessary to assess project performance and determine the emission removals in accordance with the applied methodology.

The auditor has verified all the parameters presented in the monitoring plan with the requirements of the methodology. In this regard, the monitoring plan contains all the required parameters, with adequate descriptions regarding: Data source, measurement procedures, monitoring frequency and QA/QC procedures to be applied.

6.1.2.1 Data and parameters

The data and parameters monitored for the forest plots were as follows:

Data/Parameter	*Diameter at Chest Height (DHB).*
Unit of measurement	*Centimeters.*
Description	*Reflects tree growth and carbon storage.*
Source of information	*Field monitoring in the plantations stands linked to the project.*
Applied values	*Result of the monitoring plots measured in each of the plantations stands linked to the project.*
Choosing data or measurement methods and procedures	*The person in charge of monitoring this variable is the technical operator hired by the project owner. The frequency of measurement depends on the verification processes executed in the project. Finally, the accuracy of the measurements, methods, and measurement procedures are carried out*

	following section 16.3 Site management and biomass growth monitoring, of BCR0001 V4.0.
Information purpose	*Controlled, CO2-related calculation of the removals generated by the project activity.*
Quality control and assurance procedures	*The procedures described in section 16 of the BCR0001 V4.0 methodology regarding the data verification process are carried out.*
Monitoring frequency	*Permanent. Measured every time the project is verified (triennial).*
Comments	*-*

Data/Parameter	*Total height (Ht).*
Unit of measurement	*Metre*
Description	*Reflects tree growth and carbon storage.*
Source of information	*Field monitoring in the plantations stands linked to the project.*
Applied values	*Result of the monitoring plots measured in each of the plantations stands linked to the project.*
Choosing data or measurement methods and procedures	*The person in charge of monitoring this variable is the technical operator hired by the project owner. The frequency of measurement depends on the verification processes executed in the project. Finally, the accuracy of the measurements, methods, and measurement procedures are carried out following section 16.3 Site management and biomass growth monitoring, of BCR0001 V4.0.*
Information purpose	*Controlled, CO2-related calculation of the removals generated by the project activity.*
Quality control and assurance	*The procedures described in section 16 of the BCR0001 V4.0 methodology regarding the data verification process are carried out.*
Monitoring frequency	*Permanent. Measured every time the project is verified (triennial).*
Comments	*-*

The data and parameters for monitoring project boundaries are:

Variable	Unit of Measurement	How to obtain it	Frequency of registration	Coverage/Other Measures or Number of Data Collected	Remarks
Stratum	Stratification Map	c	Periodically	100% of the area	Identification of each stratum by means of species planted and year of sowing
Polygons of the areas included in the project. GPS Coordinates	Latitude and Longitude	m	Annually (maximum every 3 years)	100% of the area	Verified annually. Made up of the coordinates (latitude and longitude) of each polygon included in the project, identifying the areas affected by natural or man-made disturbances
A_{ikt}	Hectares	c	Annually (maximum every 3 years)	100% of the area	Polygons of the areas in the project, during time t, in stratum i, in forest system k
A_T		c	Annually (maximum every 3 years)	100% of the area	Total area at time T. The area of the project boundaries will be measured documented. Project boundary maps will be available at each follow-up audit. It corresponds to the sum total of the areas in the boundaries in period T.
$Adist_{ikt}$		c	Maximum every 3 years	100% of the affected area	Areas affected by natural phenomena (pests, fire, etc.) or anthropogenic activities (interventions or deforestation), by stratum i, by forest system k, at time t.

Variables used in the execution of planting activities:

Variable	Unit of Measurement	How to obtain it	Frequency of registration	Coverage/Other Measures or Number of Data Collected	Remarks
ID - Ref. SIG	Alphanumeric	Defined	Continuously	100% of the area	Each established forest stratum and system, associated with an alphanumeric identifier
Localization	Geographical coordinates	m	Continuously	100% of the area	Using GPS to identify the geographic coordinates of each lot included in the project.
A_ikt	Hectare	c	Continuously	100% of the area	Polygons of planted areas during time t, by stratum i, in forest model k.
Site Preparation	Hectare	m	At the beginning of each establishment	100% of the area	Area intervened for the establishment of plantations.
Species planted by each stratum	NA	Defined	Annually	100% of the area	Species planted by each stratum, within the boundaries of the project.
Survivals	Trees/ha	m,c	Three months after planting and annual	100% of the area	The established survival rate per hectare is calculated for each stratum, species and forest system
Planting Date	Alphanumeric	m	At the beginning of each establishment	100% of the area	Planting date of each lot (site)

In the quantification chapter, there is the monitoring of the variables used for the quantification of the project's carbon and their respective follow-up.

The project has used the Monitoring and Verification Report Tool V3.0 of April 2022, where to comply the audit team has carried out the specific review of numeral 9 and numeral 10, where the results are shown below:

1. *Confirmation of applicability conditions*
   The project complies with the following conditions of applicability of the methodology:
- *The project areas do not fall into the forest category.*
- *The project's activities do not generate transformations of natural ecosystems.*
- *The project areas do not fall into the category of wetlands.*
- *The project areas do not contain organic soils.*
- *No flood irrigation is used.*
- *No drainage effects.*
- *Soil preparation practices are suitable for soil conservation.*

2. *Description of the Monitoring System:*
   The monitoring plan follows all specifications presented within the registered PD.
3. *Information on data generation, aggregation, logging, calculations, and reporting:*
   The formats 12_Forest_management_establischment plan/ PEMF and Planting_plan, was reviewed in detail, where it has the procedure for the assembly and measurement of plots with their corresponding formats for the registration of information in the field, which has been updated as the verifications of the project have been carried out and to comply with the new regulations. There are the results of the forest inventories carried out and the database referred to in the quantification Excel file, these have location information, coordinates, leaders, and measurement equipment for each owner.
4. *Organization, Roles, and Responsible Personnel*
   For the first verification, the project developer carried out training related to carbon certification, carbon credits, plot assembly procedure and plot measurement and everything corresponding to data collection, this information is found in more detail within the 5_carbon_calculation. This information was during the remeasurement of the plots in the field, and the site visit that was carried out, where there was evidence of the collection of information in the field of some of the working groups.

   Everything related to the description of the monitoring plan will be found in detail in chapter 13.4 of the monitoring report.

   This procedure was evidenced during the on-site visit. ICONTEC confirms and corroborates the information described in the different documents and approves the methodologies and tools used for the establishment and monitoring of the

information and the plots, so it is confirmed that the project complies with the related within the standard and the tools applied.

6.1.2.2 Environmental and social effects of the project activities

For the verification of this project, the developer has the implementation of several activities that comply with the SDGs, the project complies with the requirements established within ISO 14064-3,

Since the validation of the project, Proyecto Forestal Alcaraván Orinoquía has an environmental management system, complying with the environmental policy framework and all the necessary environmental permits, in accordance with the requirements for the operation of the plantation, this information was reviewed from the Environmental – Environmental Indicators folder.

No negative impacts were identified in these evaluations, ICONTEC was able to purchase these refinements based on the site visit and the review of the matrices used by the developer.

The Project complies in this verification period with 6 SDGs that have a social component, which are written in section 14.9 with the necessary evidence. According to No Net Harm Environmental and Social Safeguards (NNH), the project's activities follow the requirements of the environmental authority are consistent and comply with all environmental permits.

Proyecto Forestal Alcaraván Orinoquía has a robust environmental management plan, based on an environmental policy framework, and a monitoring system, based on indicators, of all activities and their potential effect on environmental dimensions.

6.1.2.3 Procedures for the management of GHG reductions or removals and related quality control for monitoring activities

Icontec validated and verified that the information surveys in the field were applied through forest inventories adapted according to the methodology, it is possible to identify the methodology applied for the collection of information, the log that describes the particularities perceived in the field and the database with the results obtained once it was implemented. Additionally, the results obtained in the carbon analysis for soil and litter samples captured within the same methodological scheme described are attached.

Chapter 16 of the PD project has Information Quality Management, with adequate and duly documented procedures for the management of information related to GHG reductions, this helps to identify errors or omissions that can be identified appropriately and at the right times to those in charge of the project and the AFOLU mitigation actions.

This system guarantees the quality and veracity of the information through the system of measurements and quality control (QA/QC), which will be implemented in the project and will be in accordance with the recommendations of the IPCC, which gives consistency in all processes through the development of protocols and manuals for all the activities presented by the project.

- *Verification of reliable field measurements:*

This procedure is carried out by trained professionals with the necessary knowledge of field protocols, objectives of activities, contingency measures, importance of precision measurements, equipment handling, among others. All the work teams are led by technicians specialized in the procedures and analysis of the information, through the audit the resumes of some of the professionals in charge of data collection in the field were corroborated, to guarantee this procedure.

- *Verification of field data*

Cross-checks are carried out between personnel trained in tasks related to measurement, during this process the following information is reviewed:

a. *It must be developed by qualified personnel other than those who carried out the first measurement and it will be the task of the project's technical assistance to define these personnel and that they proceed under the same conditions of the measurement protocol.*
b. *Remeasurements of the plots should be carried out with a selection of random points covering between 10 and 20% of the total plots established in the monitoring. Remeasurements compared to baseline should not show deviations greater than 5%. Any errors found must be corrected and notified.*
c. *Develop measurements with instruments with similar characteristics to those used in the main monitoring.*
d. *Follow the same protocols for establishing plots and measuring dendrometry variables.*
e. *Comparing the information obtained during the audit with the monitoring information and establishing or identifying errors and possible sources.*
f. *If errors are identified in the estimates, they will be corrected and documented, and expressed as a percentage of the number of plots measured, to obtain an expression of the total error.*
g. *The allowed error is 5%, in case of exceeding it, a new monitoring of the entire parcels will have to be carried out.*

Through the audit, the review of the general aspects is carried out, reviewing the review templates, the review teams, the professionals who carried out these verifications, during the on-site visit.

- *Audit of information processing*

The transcription of field information from physical to digital media is carried out by personnel trained for this specific task, where there are also protocols and templates in digital formats that require approvals and are subject to constant changes. This information is reviewed by an information analysis coordinator who manages in any case to identify errors, inconsistencies, and anomalies, carrying out, as in the previous

step, an internal audit is carried out through the estimation of the error that manages to determine if the data entered should be corrected.

Through the audit, the physical field formats were reviewed and compared with the data that were cleaned and corroborated in the same way with the digital files that were provided by the developer, some inconsistencies were identified that are related to some of the project's findings.

ICONTEC can attest that all indicators relevant to project performance monitoring and reporting have indeed been incorporated into the project monitoring plan. The frequency, responsibility and authority for recording, monitoring, measuring and reporting of project activities have been clearly developed with a "best practice" management system in mind, which has also established effective and necessary quality control measures and procedures in the collection of monitoring data, as well as the stipulations of the methodology being used.

6.1.2.4 Description of the methods defined for the periodic calculation of GHG reductions or removals, and leakage

In accordance with the "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024", and AR-ACM003, as indicated in this document, the AR-AM-TOOL-15 V2.0 tool is applied for the estimation of the increase in GHG emissions, attributable to the displacement of pre-project agricultural activities, where leaks occur when the displacement of agricultural activities generates an increase in GHG emissions. because of the project activities and carried out within the boundaries of the project.

To demonstrate that it is insignificant, the developer calculated the carrying capacity of the land, vs the number of cattle censused by the ICA, in the years 2016 and 2023. The average value of the municipalities of Puerto Gaitán and Puerto Lleras is 0.31 cattle per hectare and for the department of Meta it is 0.48 cattle per hectare, in Cumaribo it is 0.07 cattle per hectare lower than the average of Vichada which is 0.05 cattle per hectare as evidenced in the document "Carrying Capacity Municipal.xlsx".

For the current monitoring period, the leaks caused by the displacement of cattle from the areas within the project are counted as zero, since the beginning of the project the cattle were evacuated to areas outside the limits of the project with pasture cover and no increases in these activities have been registered, so the leaks continue to be maintained with the same values.

During the audit, a thorough review of 100% of the Excel spreadsheets was conducted, confirming that the procedures for determining reductions and removals in the leakage area align with what is described in the Project Design Document (PD). This analysis considers the potential displacement of emissions due to the presence of the project. Additionally, an analysis was carried out considering environmental factors that contribute to emission

displacement, and transformation of natural vegetation covers. The Geodatabase and GIS procedure documents identify the leakage area and respective procedures.

Based on the information provided by the Project Holder and the quality control conducted by the audit team on the outputs and shapefile layers of the project areas and leakage areas, it can be ensured that these areas comply with the methodological guidelines established in each applied methodology. Furthermore, during the on-site visit by the audit team, control points were taken in these areas to validate the coverage and the quality of the interpretation.

The audit team corroborated this information in the field and IDEAM open cartography was used to identify this type of activity near the project areas, approving the data provided by the developer.

6.1.2.5 Assignment of roles and responsibilities for monitoring and reporting the variables relevant to the calculation of reductions or removals

Based on the contracts between the reforesters and the company, the responsibilities of each of the participants are highlighted, the monitoring is carried out by CO2CERO and the reporting of the variables is a joint work that has been carried out annually.

ICONTEC carried out the review of the contract documents that were signed between all parties, where the responsibilities of each of the parties are described, specifying the roles and responsibilities of each one.

6.1.2.6 Procedures related whit the assessment of the project contribution whit the Sustainable Development Goals (SDGs)

The SDGs are a call to action by different countries and organizations. They recognize that poverty must end, and this goes hand in hand with strategies that generate economic growth and address a range of social needs including education, health, social protection, and job opportunities, while addressing climate change and environmental protection.

Biocarbon Registry has developed a tool whose objectives are:

a) Reinforce the provisions established by the BCR program to align climate mitigation action with contribution to the sustainable agenda.
b) Provide technical elements to guide GHG projects in identifying the contribution of the SDGs, considering guidelines and conditions in the BCR program.
c) Facilitate a clear understanding of the SDG-related requirements for the programmed and reduce the risk of misinterpretation.

To comply with this tool, project owners must recognize how their project activities are linked to objectives in terms of well-being and quality of life, such as food security, healthy living, education, gender equality, access to water and energy, economic growth and sustainable use of ecosystems and peaceful societies.

The project adequately reports the contributions to the United Nations Sustainable Development Goals, through the application of the program's "BCR Tool" and the identification of the contribution to them within chapter 7 of the PD and those reported for the current verification period within chapter 11 of the Monitoring Report. in which the development of the following objectives is evidenced:

***SDG 1**. End poverty in all its forms everywhere.*
***SDG 2.** End hunger, achieve food security and improved nutrition and promote sustainable agriculture.*
***SDG 8.** Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all.*
***SDG 12.** Ensure sustainable consumption and production patterns.*
***SDG 13.** Take urgent action to combat climate change and its impacts.*

***SDG 15.** Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss*

To demonstrate compliance with the validated and verified SDGs, the responsible party for the Proyecto Forestal Alcaraván Orinoquía used the Tool for determining contributions to achieving the SDGs.

For SDG 1-1.4.1 "Proportion of the population living in households with access to basic services", the project demonstrated the percentage of people living within the project areas and having access to basic services, which is evidenced within the documents supported in this report in ANNEX 5.

For SDG1-1.4.2 "Proportion of the total adult population with secure land tenure rights: (a) having legally recognized land tenure documentation and (b) considering their rights secure, disaggregated by sex and type of tenure", the project was able to demonstrate the number of participants who have land rights and to disaggregate by sex and by type of tenure, supported by the documents contained in this report in ANNEX 5.

For SDG 1-1.5.4 "Proportion of local governments adopting and implementing local disaster risk reduction strategies in line with national disaster risk reduction strategies", the project identified 2 of the 3 Departmental Plans for Disaster Risk Management (PDGRD) in which government strategies are located, supported by the documents contained in this report in ANNEX 5.

For SDG 2-2.4.1 "Proportion of the agricultural area where productive and sustainable agriculture is practiced", the project was able to demonstrate the percentage of the agricultural area where sustainable agriculture practices have been implemented or are implemented through the Departmental Agricultural Extension Plans (PDEA) of two of the 3 departments that are part of the project in this verification. And in addition to the above, by means of cartography generated by the developer, the identification of the areas to obtain

this proportion, this information is supported by the documents found within this report in ANNEX 5.

For SDG 8-8.3.1 "proportion of informal employment with respect to total employment, disaggregated by sector and sex", the project manages to identify the number of people working within the project areas by sex, this information is supported by the documents found within this report ranging in ANNEX 5/.

For SDG 8-8.5.1 "Average hourly earnings of employed women and men, disaggregated by occupation, age and persons with disabilities", the project identifies the average hourly earnings of men and women to indicate the value, this information is supported by the documents found within this report ranging from ANNEX 5.

For SDG 12-12.1.1 "Number of countries developing, adopting or implementing policy instruments aimed at supporting the transition to sustainable consumption and production patterns", the project identifies that Colombia develops, adopts, or applies policy instruments that support the transition to consumption patterns, such as the documents identified in ANNEX 5.

For SDG 12-12.6.1 "Number of companies that publish sustainability reports", the project shares the reports that have been generated by one of the project participants during different years and that contribute to this SDG, this information is supported by the documents found within this report ranging from in ANNEX 5.

For SDG 13-13.2.2 "Total GHG emissions per year", the project supports this SDG with the documents found within this report in ANNEX 5.

For SDG 13-13.3.1 "Extent to which (i) global citizenship education and (ii) education for sustainable development is incorporated into (a) national education policies, (b) curricula, (c) teacher education and (d) student assessment." This information is supported by the documents contained in this report in ANNEX 5.

For SDG 15-15.1.1 "Forest area as a proportion of total area", this information is supported by the documents found within this report in ANNEX 5.

For SDG 15-15.2.1 "Progress in sustainable forest management", this information is supported by the documents found within this report in ANNEX 5/.

ICONTEC had access to the information reported for these indicators and can confirm that it complies with the values reported for this verification. To demonstrate compliance with the validated and verified SDGs, the responsible party for the Proyecto Forestal Alcaraván Orinoquía used the Tool for determining contributions to achieving the SDGs.

This information was cross-referenced during the audit process in the strategic planning phase by reviewing 100% of the evidence provided by the project owner.

6.1.2.7 Procedures associated with the monitoring of co-benefits of the special category, as applicable.

Does not apply to this project.

6.2 Quantification of GHG emission reductions and removals

6.2.1 Methodology deviations (if applicable)

For this monitoring period, there are no deviations reported.

6.2.2 Baseline or reference scenario

Through the recalculation and review of 100% of the spreadsheets provided by the project lead, the audit team was able to demonstrate that the quantification of greenhouse gas emissions for this reference period with guidelines defined in methodology BCR0001, section 15.1. And the section 5 of the AR-TOOL 14 "Estimation of carbon stocks and change in carbon stocks in dead wood and litter in A/R CDM project activities", the project applies the next circumstances:

1. *Trees present before the project are not harvested, cleared, or removed throughout the duration of the project.*
2. *Trees present before the project implementation do not suffer mortality because of competition from trees planted by the project, nor are damaged because of implementation of the project activity, at any time during the duration of the project.*
3. *The trees present before the project are not inventoried along with the project trees that are monitored to estimate carbon stocks, but their existence continues, according to the baseline, which is monitored throughout the duration of the project.*

Changes in carbon stocks in the baseline scenario can be considered null if the following conditions are met:

1. *Evident decrease in the depth of the surface soil, evidenced, for example, by the exposure of the roots, presence of pedestals and exposure of the horizons of the subsoil.*
2. *The presence of ravines, laminar or furrow erosion, landslides, or other forms of mass movement.*
3. *The presence of locally known plant species as indicators of low soil fertility.*
4. *The soil is composed of bare sand dunes or other bare lands.*
5. *The terrain is made up of contaminated soil, areas degraded by mining, or highly alkaline or saline soils.*

6. *The land undergoes periodic cycles (e.g. slash-and-burn or thinning and regeneration cycles), whereby the biomass ranges from a minimum to maximum value at the baseline.*
7. *Compliance with conditions I, II and II, is necessary to count the stock of tree biomass as zero.*

The carbon contents in the biomass present in the baseline scenario are considered null since it meets these conditions, as evidenced in the forest inventory data and satellite observations.

The estimates of the Ex-Ante scenario established in the project document are like the Ex-post scenario of the present monitoring period, this difference of less than 3% occurs because the Ex-Ante scenario is a projection in accordance with the growth parameters by species for each of the participants, as seen in the following table:

Table 29. Comparison of actual emissions removals with estimates in the project document.

Remotion Project	Ex Ante	Ex post	Diference
Total Removals tCO2e	33.942,00	33.030	2,76%
Net Removals tCO2e	27.154,00	26.424	2,76%

The project was found to meet the criteria established in section 2 of this document. In accordance with this, the consistency of the project's baseline aligns with the requirements of the BCR Standard, version 3.2 of September 23, 2023, and the "Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024".

6.2.3 Mitigation results

The GHG Project successfully demonstrated that it has procedures and strategies in place to manage identified risks, including environmental risks (floods and heat points thermal variations), financial risks (non-profitability, low market demand, and contractual non-compliance), and social risks (carbon ownership). Additionally, it has mechanisms for ongoing monitoring activities over a 20-year quantification period (2018 to 2037) to ensure their persistence.

The project owner provided adequate, precise, and objective evidence showcasing an analysis to classify identified risks based on their criticality, probability of occurrence, impact, and direct or indirect effect on the project.

6.2.3.1 GHG emissions reduction/removal in the baseline scenario

All this information is found within the chapter 6.2.2 to this document.

6.2.3.2 GHG emissions reduction/removal in the project scenario

The calculation procedure used by the developer to quantify the GHG reductions in the project scenario because of the project implementation during the monitoring period and its result is summarized below.

The audit team verifies the related information within the forest inventory documents, which have been separated by strata and with specific parameters for the project. By reviewing this information, the estimation of the carbon stock in the project is obtained. It was based on the calculation of the establishment of 139 plots, in accordance with the parameters and the sampling error mentioned in previous chapters of this document, within 1,094.43 hectares that are part of the eligible areas of the project, resulting in the following table:

Table 30. Net GHG emission removals to 2022

Participant	Stratum	Temporality	Baseline removals (tCO_2e)	Leaks (tCO_2e)	Total Removals (tCO_2e)	Total net removals (tCO_2e)
CLAUDIA HUERFANO	Pinus caribaea 2018	Validation - Verification	-	-	518	415
ECOLOGIC S.A.S	Acacia mangium 2020	Validation - Verification	-	-	6,827	5,462
ECOLOGIC S.A.S	Acacia mangium 2021	Validation - Verification	-	-	319	255
ECOSISTEMA PRODUCTIVO MATAEMONTE SAS	Acacia mangium 2021	Validation - Verification	-	-	1,558	1,246
ENLACE ROJO SAS	Eucalyptus pellita 2018	Validation - Verification	-	-	10,363	8,290
ENLACE ROJO SAS	Eucalyptus pellita 2019	Validation - Verification	-	-	730	584
ENLACE ROJO SAS	Eucalyptus pellita 2020	Validation - Verification	-	-	285	228
INVERSIONES GUARDABOSQUES DE COLOMBIA	Pinus caribaea 2018	Validation - Verification	-	-	2,674	2,140
LUIS FERNANDO RODRÍGUEZ O	Eucalyptus pellita 2018	Validation - Verification	-	-	2,820	2,256
PUNTA DE GARZA INVERSIONES FORESTALES	Eucalyptus pellita 2018	Validation - Verification	-	-	2,591	2,073
PUNTA DE GARZA INVERSIONES FORESTALES	Pinus caribaea 2018	Validation - Verification	-	-	2,270	1,816
SULTANA SAS	Acacia mangium 2021	Validation - Verification	-	-	2,075	1,660
Total			-	-	**33,030**	**26,424**

The annual removals or the project calculated for the period 2018-2022 is:

Remotion year	Total tCO_2e	Net tCO_2e (tCO_2e Total-Reserve)
2018	4,247	3,398

Remotion year	Total tCO_2e	Net tCO_2e (tCO_2e Total-Reserve)
2019	4,430	3,544
2020	6,800	5,440
2021	8,776	7,021
2022	8,776	7,021
Totals	**33,030**	**26,424**

The audit team verified all calculations of greenhouse gas removals calculated for the monitoring period for the project's emissions. No errors were discovered that materially affect the project's reported emissions during the monitoring period, the total removals are temporally in the monitoring period from 11 April 2018 to 2 December,2022. The spreadsheet formulas were in the 5 folders: 5_Carbon calculation/Ex-Post/ExpostAlcaravanOrinoquia_V4, conversions and aggregations, and the consistent use of data and parameters have been carefully reviewed by the ICONTEC audit team.

6.3 Environmental and social effects of the project activities and no net harm

For the first monitoring period, the developer considered the evaluation of environmental and social impacts by providing the different documents (folder 11_Environmental legislation, 13_Moitoring report/04_NNH/01_Environmental aspect and 02_Socioeconomic aspect) based on the BCR Tool No Net Harm Environmental and Social Safeguards (NNH) BCR project activities do not cause any net-harm to the environment or to local communities and society in general. Version 1.0 March 7, 2023.

The project carried out a tracking of the contributions to the Sustainable Development Goals of the project, as well as an environmental aspect.

No negative impacts were identified during the monitoring period. The audit team, in consideration of numeral 6(Validation and verification) of the tool, NNH, considered the evidence that allow to reach an assurance of conformity according to the rules of the BCR standard:

1. *GHG mitigation results and targets*

The project presents al the SDGs mitigation goals associated with the implementation of actions that allow avoiding the emission of 517,005 tCO_2e and results associated with the implementation that allow avoiding the emission 33,030 tCO_2e between 11/04/2018 to 02/12/2022. The evidence can be seen in the spreadsheets and reports of the activities.

2. *Adequate and appropriate methodologies*

The developer made use of the following methodological document:

"Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024" The evidence of the application of the methodology and its development is presented in section 5.5 and 5.6 of this document.

3. *Uncertainty and conservative approach*

The evidence of the uncertainty is presented in section 5.5.6 of this report.

4. *Baseline scenario*

The evidence of the baseline scenario is presented in section 5.5.4 of this report.

5. *Mitigation results*

The results associated with the implementation allow avoiding the emission of 33.030 tCO_2e between 11/04/2018 to 02/12/2022. The evidence can be seen in the spreadsheets and reports of the activities.

6. *Compliance with the additionality of the project*

The evidence of the additionality of the project is presented in section 5.5.5 of this report.

7. *Carbon rights and ownerships*

The evidence of the carbon rights and owners' ships is presented in section 5.8 of this report.

8. *Assurance of environmental and social impact management and no net harm*

The evidence of this information is presented in section 5.10 and 5.11 of this report, the identified effects are positive.

9. *Co-benefits indicators*

Not applicable for this project

10. *Contribution to SDGs*

Monitoring indicators and evidence are presented in section 6.4 of this report, the developer was carried out according to the tool: BioCarbon Registry 2023. TOOL SUSTAINABLE DEVELOPMENT GOALS (SDG) V1.0. June 2023.

11. *Stakeholder consultation*

The developer presents the list of stakeholder's consultation that support the evidence of the process.

12. *Compliance with national legislation*

The evidence of this information is presented in section 5.7 of this report, the main regulations that apply to this type of project and how they are complied with.

13. *Grouped project.*

The project is not grouped.

14. *Compliance of the monitoring and quantification plan with the methodology*

The evidence and the information are presented in section 5.5 and 5.6, the developer of the monitoring and quantification plan complies with the stipulations of methodology BCR0001.

6.4 Sustainable Development Goals (SDGs)

It was verified that the climate change mitigation project correctly used the Biocarbon registry TOOL SDG to identify the SDGs applicable to the project. In this regard, the audit team found evidence suggesting that the implementation of project activities contributes to the achievement of the Sustainable Development Goals.

Climate change mitigation project contributes to the fulfillment of the SDGs, which are adopted by the Colombian state as member of the United Nation, and as part of the agenda 2030, and with specific objectives of the National Climate Change Policy (2017). From the adoption of the BCR tool for the AFOLU sector type ARR, it was identified that the project demonstrate impact with the targets of goals: 1 (End poverty in all its forms everywhere); 2 (End hunger, achieve food security and improved nutrition and promote sustainable agriculture), 8 (Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all), 12 (Ensure sustainable consumption and production patterns), 13 (Take urgent action to combat climate change and its impacts) and 15 (Protect, restore and promote sustainable use of terrestrial ecosystem, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss).

Table 31. Results SDG

SDG	Global indicators	Results for the monitoring period
1. End poverty in all its forms everywhere	1.4.1 Proportion of population living in households with access to basic services	18% of employees have access to basic services.
	1.4.2 Proportion of total adult population with secure tenure rights to land, with legally recognized documentation and who perceive their rights to land as secure, by sex and by type of tenure	100% of the properties have ownership of carbon rights
	1.5.4 Proportion of local governments adopting and implementing local disaster risk reduction strategies in line with national disaster risk reduction strategies	33.33% of the municipalities belonging to the Project have a Disaster Risk Management Plan (PDGRD)

SDG	Global indicators	Results for the monitoring period
2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture	2.4.1 Proportion of agricultural area under productive and sustainable agriculture	7.8% of the municipalities that are part of the project are under productive and sustainable agriculture
8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	8.3.1 Proportion of informal employment in non-agriculture employment, by sex	27% of the number of employees with formal employment (2018) compared to the largest number.
	8.5.1 Average hourly earnings of female and male employees, by occupation, age and persons with disabilities	$4,075 COP corresponds to the SMLV hourly value of 2017 and was the reference value taken; this is paid to most workers within the project. A projection of the increase is made that corresponds to the value given by the government and the CPI.
12. Ensure sustainable consumption and production patterns	12.6.1 Number of companies publishing sustainability reports	1 participant has sustainability reports
13. Take urgent action to combat climate change and its impacts	13.2.2 Total greenhouse gas emissions per year (tCO_2e)	277869000000000, 20762859599499 and 3000 were obtained, which correspond to total emissions generated in Colombia according to the BUR, for the years without data (after 2020), it was considered according to an emission rate considered after 10 years before. Release of CO2e generated by 1 head of cattle in every 10 ha, present in the areas before planting.
	13.3.1 Number of countries that have integrated mitigation, adaptation, impact reduction and early warning into primary, secondary and tertiary curricula	5 educational talks and training with a sustainable development focus.
15. Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	15.1.1 Forest area as a proportion of total land area	100% of eligible Project areas
	15.2.1 Progress towards sustainable forest management	

ICONTEC was able to verify through the documentary review and the in-situ visit that the SDGs identified correspond with the BCR tool and are reported in accordance with the selected project activities, additionally, the sub-activities, indicators and monitoring frequency are in accordance with the requirements of the BCR standard.

6.5 Climate change adaptation

Adaptation to climate change, as indicated in section 10.8 of the BCR Standard, is "the adjustment in natural or human systems in response to current or expected climatic stimuli, or their impacts, that reduces the damage caused and enhances beneficial opportunities",

the project owner demonstrates that it considers the strategic lines proposed in national Climate Change policies and addresses aspects framed in Colombian regulations, It improves the conditions for the conservation of biodiversity and its ecosystem services, in the areas of influence, outside the limits of the project (work with indigenous communities), has proposals for areas with restoration processes in areas of special environmental importance, designs and executes adaptation strategies based on an ecosystem approach and strengthens the local capacities of communities to make informed decisions that allow them to anticipate negative effects resulting from climate change.

During the document review and field visit, it was confirmed that Proyecto Forestal Alcaraván Orinoquía integrates climate change mitigation and adaptation with the aim of reducing greenhouse gas (GHG) emissions and enhancing resilience to current and future impacts associated with climate change and climatic variability. The project aligns with National Climate Change Policies, addressing the following strategic lines:

A. *Does it consider any of the strategic lines proposed in the National Climate Change Policies and/or address aspects framed in the country's regulations where the project is implemented?*
- *Proyecto Forestal Alcaraván Orinoquía successfully demonstrates that its proposed activities in the PD and those implemented in the RM are focused on climate change prevention and adaptation. Faced with the predicted increase in extreme weather events, the project aims to reduce greenhouse gas (GHG) emissions and enhance the resilience of the project area to current and future impacts of climate change and climate variability.*

B. *Does the project Improve conditions for the conservation of biodiversity and its ecosystem services, in the areas of influence, outside the project boundaries?*
- *The Proyecto Forestal Alcaraván Orinoquía, as written in compliance with some SDGs, contributes in a social way to some families that are located close to the project area and that are not part of it, in the same way they carry out internal projects and training to encourage families that still make a living from animal hunting and illegal logging to work in other lines or with the reforestation company directly.*

C. *Implements activities that generate sustainable and low-carbon productive landscapes;*
- *Training and technical assistance is provided to ecosystem managers. These activities are aimed at sharing knowledge and developing specific competencies for each productive activity they wish to implement.*

D. *Designs and implements adaptation strategies based on an ecosystem approach.*
- *The project demonstrates that it develops actions in forest production systems that are more adapted to the management of clones, improving income and food security, reducing GHG emissions from forestry activities compared to the scenario without a project, replacing pasture and livestock areas with forest crop management.*

E. *Strengthens the local capacities of institutions and/or communities to make informed decisions that allow them to anticipate negative effects derived from*

climate change (recognition of vulnerability conditions); as well as to take advantage of opportunities derived from the foreseen or evidenced changes.
- The social work that has been done is aimed at improving and strengthening these capacities.

For activities in the AFOLU sector:

A. The project will promote forestry production systems better adapted to high temperatures, droughts to improve competitiveness, income, and food security, especially in vulnerable areas,
B. Reduction of GHG emissions from agricultural activities compared to the non-project scenario.

ICONTEC verifies that the project complies with the actions that contribute to adaptation to climate change. ICONTEC considers that within the framework of the National Climate Change Policy, the project´s activities and actions, which promote the conservation of strategic ecosystems, and the strengthening of sustainable practices, among others.

6.6 Co-benefits (if applicable)

Not applicable for this project

6.7 REDD+ safeguards (if applicable)

Not applicable for this project

6.8 Double counting avoidance

Complying with section 26 of the BCR Standard, version 3.2 of September 23, 2023, and in accordance with the tool for Avoiding Double Accounting V1.March 09, 2023, the audit team based on the analysis of the internal cartographic information provided by the developer, as shown in the maps below, project area was verified, along with the all information to identify possible overlaps; The project does not overlap with other GHG Project that are developed in the geographical area in which the project is located, a response was given to a CAR that can be found in greater detail in ANNEX 2.

To avoid double counting, the Proyecto Forestal Alcaraván Orinoquía ensures that the certified carbon credits generated meet the following requirements:

- Each carbon credit (tCO_2e) is counted only once to demonstrate compliance with the same GHG mitigation target.

- The remuneration, benefits, or incentives of each carbon credit (tCO_2e) is obtained only once.

- *Each carbon credit (tCO2e) is verified, certified, or credited through the implementation of only one GHG Project; in this case, the Proyecto Forestal Alcaraván Orinoquía.*

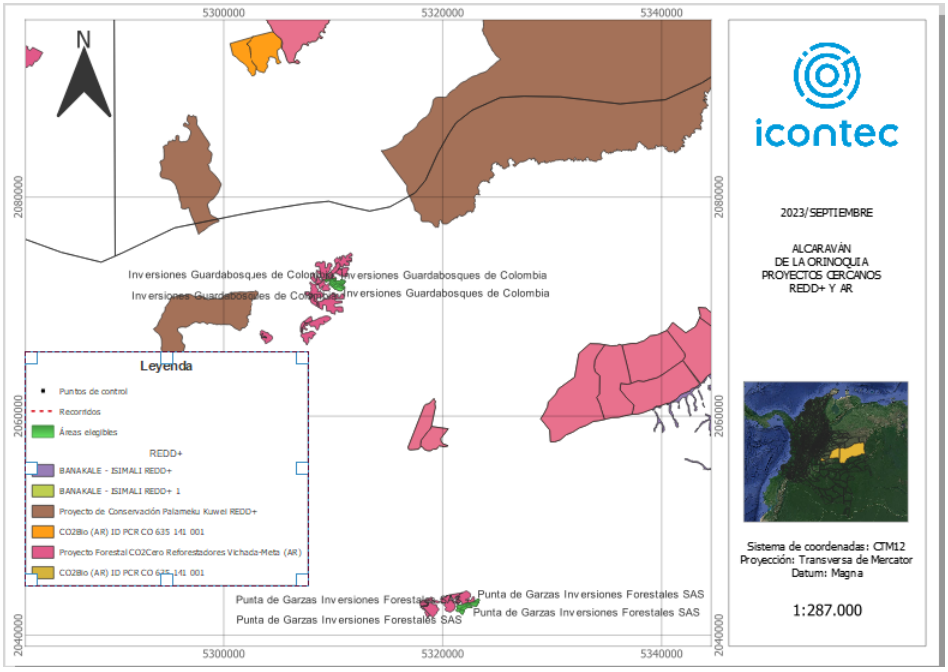
- *A ton CO2e is verified, certified, credited and assigned only once serial for a single mitigation outcome.*

Additionally, the initiative is registered on the BIOCARBON REGISTRY platform, allowing to control aspects of double accounting, the permanence of each carbon credit in the long term and the adequate commercialization of these.

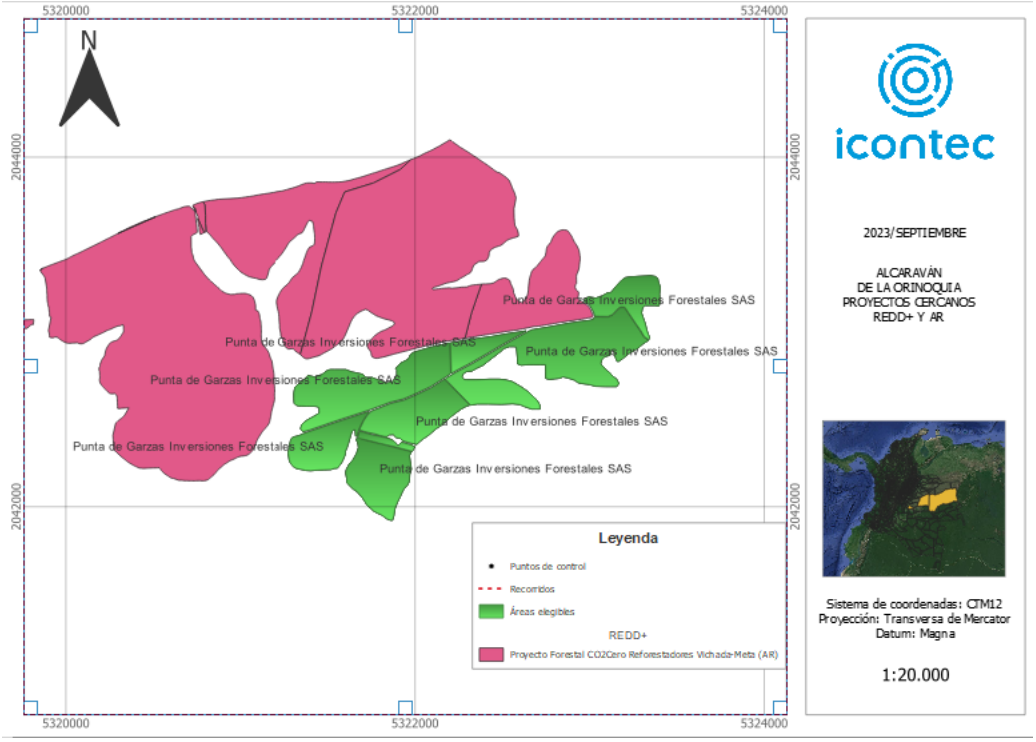
The audit team consulted different official sources of different existing programs (CERCARBONO, COLCX, VERRA, etc). The main purpose of this review was to contrast and collate the shapefiles of the different projects registered around influence of the Proyecto Forestal Alcaraván Orinoquía, with the explicit purpose of confirming the absence of overlaps and ensuring the absence of double counting.

Similarly, during the audit and the interviews and tours carried out by the team that allowed us to obtain sufficient evidence regarding the non-existence of other GHG Project that present a risk of double counting of GHGs in relation to the project, finding an adjacent initiative that is shown on the maps, but without having interference with the project areas.

Carrying out a review of the projects that are within the same territory, the following have been identified, within the departments of Vichada and Meta:

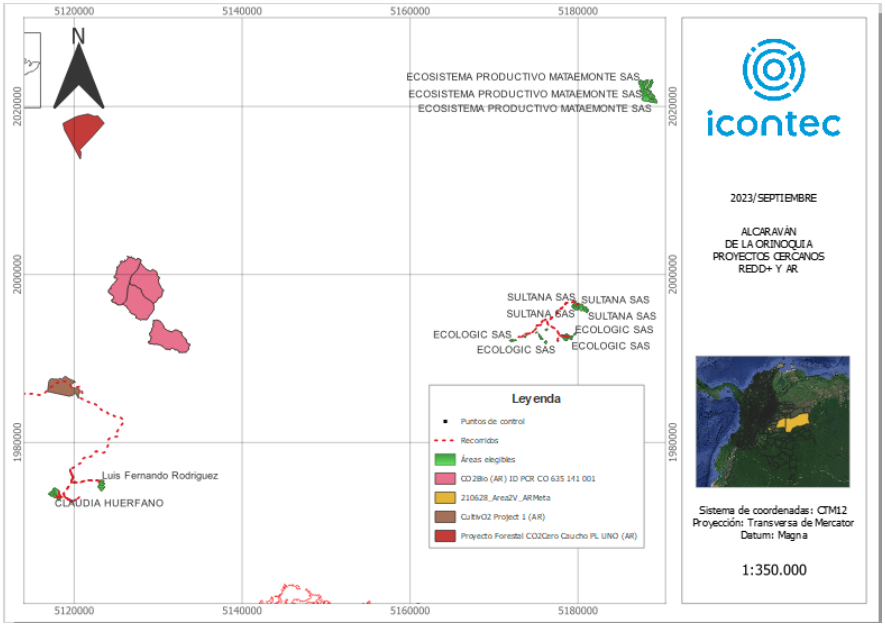


Map 4. Nearby Mitigation Projects 2

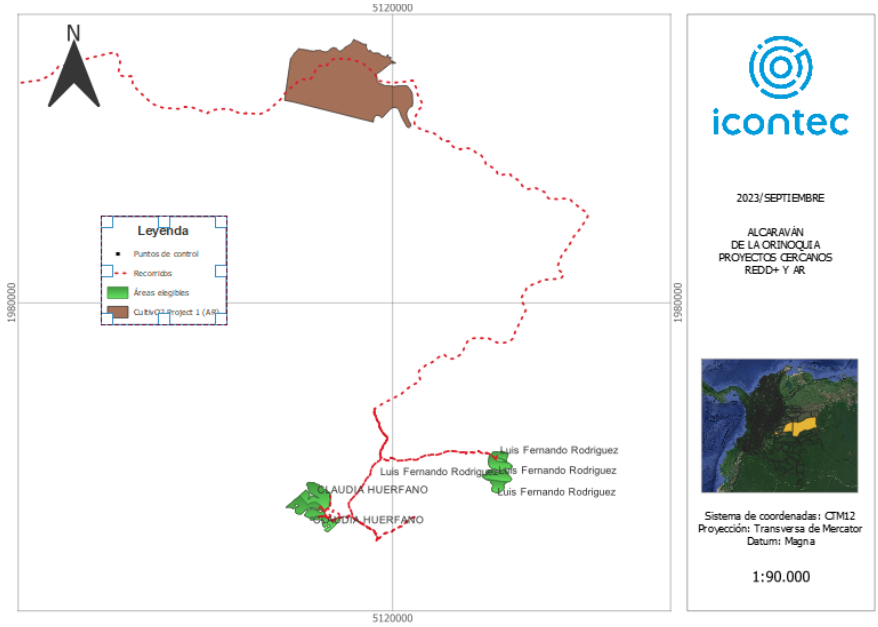


Map 5. Nearby Mitigation Projects 3

It is close to a project of the same development company called " Proyecto Forestal Núcleo Vichada-Meta (AR) CO2CERO" that have proximity and even areas within the project area but are not part of the eligible areas of the project. Therefore, they are separate projects.

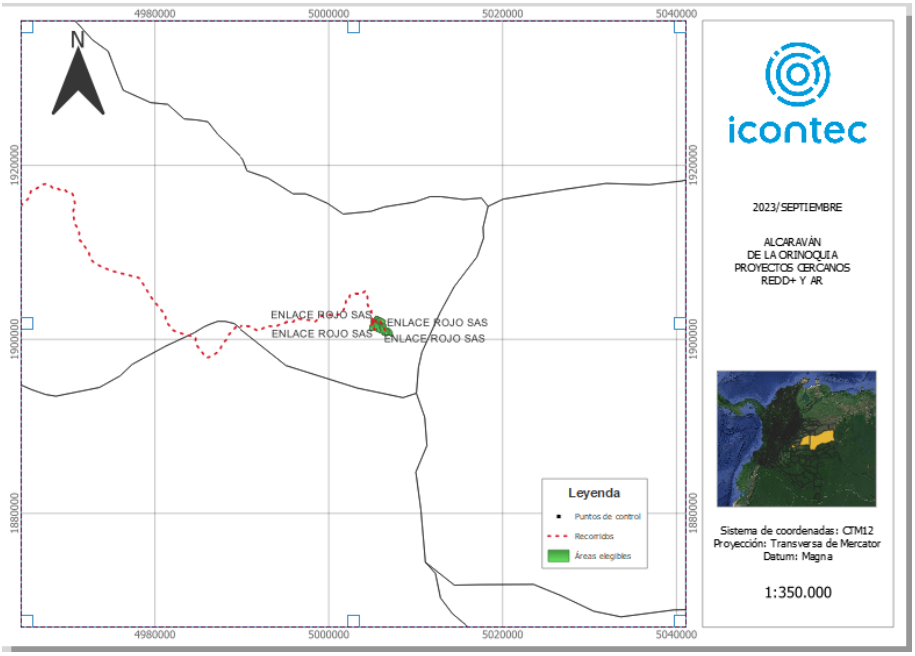


Map 6. Nearby Mitigation Projects 4



Map 7. Nearby Mitigation Projects 5

In these three plantations blocks we observed only one nearby project named "CULTIVO2 project1" but it does not have proximity to the project areas, for the next block of "Enlace Rojo", we did not find proximity to any project as observed below:



Map 8. Nearby Mitigation Projects 6

In conclusion, ICONTEC found no evidence of double accounting by the project, verifying that the same ton of CO2e was not accounted for more than once, that the project in the same sense is not registered with any other GHG program, that the verification periods are consistent and that the GHG removals attributable to the project have not been included in another mechanism that trades GHG emission rights.

The audit team confirms the information contained in the PD and the Monitoring Report that the project complies with the BCR guidelines, where the possible overlap found with one of the identified projects where the correction of the project areas was requested is recorded in ANNEX 2 so as not to find this type of inconsistencies in the future. ICONTEC verifies that the project complies with the procedure and does not present double accounting.

To avoid double counting the developer submitted the following evidence in compliance with numeral No 8.1 of the double counting avoidance tools:

1. *Project and project holder information, this information is clear in the PD and the MR.*
2. *GHG registration authorization, the evidence is presented on the page with the project registration in the following Link: https://globalcarbontrace.io/projects/53*
3. *Project Description Document (PD), the PD version 9 is presented.*
4. *Monitoring Report (MR), the MR version 9 is presented.*
5. *Additional information is the result of the verification process of the project.*

In addition, the audit team was able to corroborate the information presented in the project documentation and in the cartography that delimits the project areas, for which the following information was analyzed.

The audit team verified 100% of the legal information provided by the project proponent and contrasted the information with the Geodatabase, confirming that the sources of information used for its construction were the official ones. Therefore, it considers that the information provided allows concluding that the project follows the legal requirements.

The audit team was able to corroborate the information presented in the project documentation and in the cartography that delimits the project areas, for which the following information was analyzed.

In addition, the developer provided geographic documentary evidence that justifies the non-overlap with natural parks or indigenous reserves or with other ARR or REDD+ projects.

6.9 Stakeholders' Consultation

The Proyecto Forestal Alcaraván Orinoquía ensures in accordance with Cancun safeguards, the flow of information, as it does not contemplate the participation of ethnic communities and therefore is developed on private land with the support of legal tenure protected by deeds and alignment. Among the project participants, letters of intent and temporary contracts were signed with the different actors, the details of the folders and contracts are found in the developer's annexes, in chapter 10 of the project document, and within the documentation reviewed by the audit team. The socialization of the project with the owners of the forest plantations was carried out, establishing communication ties between the parties, there is also a system of Petitions, Complaints and Claims (PQR), where through the mail PQRS.Forestal@co2cero.co, attention is given to any participant and/or actor, and its purpose is to address the questions, complaints, claims and/or suggestions of the participants directly linked to the development of the Forestry Projects (A/R), obtaining the appropriate response, which allows the records, commitments and actions to be kept over time.

Stakeholders are consulted through interviews with the project without identifying adverse actions.

6.9.1 Public Consultation

There project was in public consultation of the 03/10/2023 to 02/11/2023. However, the proponent has the official website of the PQR project to be able to make enquiries about the document at any time.

7 Internal quality control

During the audit, ICONTEC verified the evaluation of the evidence collection activities to evaluate the design and effectiveness of the information and data control system. Considering:

- Selection and management of GHG data and information;

- Procedures for collecting, processing, consolidating, and reporting GHG data and information;

- Control systems and processes to ensure the validity and accuracy of GHG data and information;

- Design and maintenance of the GHG information system;

- Systems, processes, and specialized personnel that support the GHG information system to ensure data quality;

- Maintenance and calibration of measuring equipment and instruments;

- Compliance with legal requirements related to the implementation of the forestry project;

- Evaluation of the project's contribution to the fulfillment of the SDGs

ICONTEC reviewed the monitoring documentation, as part of the PD, in addition to the GIS database a considered that they are in accordance with the procedures described in the monitoring plan and checked if there were any differences that could cause an increase in the estimations.

ICONTEC has confirmed that there are no significant material discrepancies between the actual monitoring system and the monitoring plan established in the PD and the methodology applied, so there is no overestimation of the requested reductions. In addition, the project proponent effectively monitors the parameters required to determine the project removals as required by the monitoring plan and applicable methodology.

The reported parameters, including their source, monitoring frequency and review criteria, as indicated in the PD, were verified as correct. The knowledge of personnel associated with the project monitoring activities was found to be satisfactory by the audit team.

8 Validation and verification opinion

ICONTEC has validated and verified Proyecto Forestal Alcaraván Orinoquía and considers that it meets the benchmarks of the BCR Standard, version 3.2 of September 23, 2023, and

"Methodological Documents AFOLU SECTOR BCR0001 Quantifications of GHG removals. Afforestation, Reforestation and Revegetation. Version 4.0 from February 9, 2024". The findings of this report demonstrate that the project, as described in this report and the documentation declared by the developer, is in line with all applicable guidelines for the validation and verification of GHG mitigation projects.

The following phases: 1) Documentary review of the Project Document and Monitoring Report and ex ante and ex post estimation of GHG emissions removal; 2) On-site documentary corroboration and evaluation of compliance; 3) Issuance of non-conformities by the audit team and resolution of non-conformities by the development team; 4) Evaluation of responses to non-conformities by the audit team; (5) Technical review; 6) Issuance of draft audit report and final opinion for validation and joint verification. All requests made by the audit team were successfully closed as indicated in ANNEX 2 of this report.

In addition, the GHG mitigation project is also in line with BCR tools and guidelines:

- *BCR Tool. Sustainable Development Goals (SDGs) Version 1.0 of July 27, 2023*
- *BCR Tool. Avoiding Double Counting (ADC) Version 1.0 as of March 09, 2023*
- *BCR Tool. Monitoring, Reporting and Verification (MRV) Version 1.0 as of February 13, 2023*
- *Biocarbon Guidelines Baseline and Additionality. GHG Project generate Verified Carbon Credits (VCC) that represent emissions reductions, avoidance, or removals that are additional V1.2 of September 27, 2023*
- *BCR Tool. Not net harm environmental and social safeguards (NNH) Versión 1.0 de marzo 7 de 2023*
- *BCR Tool. Permanence and risk management Version 1.0 of March 07, 2023*

The ex-ante projection of the project's GHG emission reductions/removals, during the 20-year accreditation period (11.04.2018 to 10.04.2037), has been carried out in a concrete, precise, transparent, and conservative manner, estimated at a total of 517,005 tCO2e[2].

The ex-post estimation of the project's GHG emission reductions/removals, during the verification period from 11.04.2018 to 02.12.2022, has been carried out in a concrete, precise, transparent, and conservative manner, estimating a total of 33,030 tCO2e[2].

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[2] *"… for the AFOLU projects, once the GHG emission removals or reductions (estimated based on the selected quantification methodology) have been registered, the system will automatically discount and maintain a reserve of 20% of the total quantified GHG emission reductions or removals for each verified period." BioCarbon Registry. 2023. BCR Standard. From differentiated responsibility to common responsibility. Version 3.2. September 23.2023.66p.*

The audit team confirms that all activities defined in the audit plan have been completed and that the GHG statement is free of material and material discrepancies, so that the assurance level used in this audit was not less than 95%, i.e. the maximum material discrepancy in the data accepted was 5 % as described in section 1.4 of this report.

Table 32. Calculation of GHG emission reduction/removal

Year	Ex-Ante Removals (tCO2e)	Leakage Emissions (tCO2e)	Total ExPost Removals (tCO2e)	Reserve 20%	Verified Carbon Units Eligible for Emission
2018	636	0	4.247	849	3.398
2019	2.490	0	4.430	886	3.544
2020	5.161	0	6.800	1.360	5.440
2021	10.044	0	8.776	1.755	7.021
2022	15.611	0	8.776	1.755	7.021
Total	**33.942**	**0**	**33.030**	**6.606**	**26.424**

9 Validation statement

The project validation statement can be found as an attachment.

10 Verification statement

The project verification statement can be found as an attachment.

11 Annexes

11.1 Annex 1. Competence of team members and technical reviewers

Provide documentation justifying the required competency of verification team members and technical reviewers.

Table 33. Competence of members of the audit team.

Last Name First Names	Email	Profession	Regional	Current Qualification	Initial Qualification Date	Lead Auditor	Auditor	Technical Expert	AT/sector	Remarks
Carreño Cucaita Angie Carolina	acarrenoc@icontec.org	Forestry Engineering	Center	GHG Inventory Assessor - ISO 14064-1:2018 GHG Program for Mexico's National Emissions Registry	7/07/2021		X		INDUSTRIALS subsector METAL PRODUCTION	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarrenoc@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3C Aggregate Sources	15/09/2021	X	X	X	14.1	* Qualified as a technical reviewer on 25/04/2023Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarrenoc@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3B Land Use-REDD	15/09/2021	X	X	X	14.1	* Qualified as a technical reviewer on 25/04/2023Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarrenoc@icontec.org	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Cercarbono	15/09/2021	X	X	X	14.1	* Qualified as a technical reviewer on 25/04/2023Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarrenoc@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Biocarbon Registry	15/09/2021	X	X	X	14.1	* Qualified as a technical reviewer on 25/04/2023Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarrenoc@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation VCS	15/09/2021	X	X	X	14.1	* Qualified as a technical reviewer on 25/04/2023Authorized to provide services under the scope of ISO/IEC

Last Name First Names	Email	Profession	Regional	Current Qualification	Initial Qualification Date	Lead Auditor	Auditor	Technical Expert	AT/sector	Remarks
										17029:2019 and ISO 14065:2020
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioquia	Lead Auditor Sustainability Seal - ICONTEC	12/10/2017					
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioquia	EFR	1/01/2016					
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioquia	ISO 26000 Social Responsibility Assessor	1/10/2014					
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioquia	ISO 20400 Sustainable Procurement Assessor	2/09/2019					
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioquia	Evaluator Equips	28/10/2019					
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioquia	GRI Sustainability Memory Checker	27/07/2015			X		
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioquia	Lead Auditor Poultry Sustainability Seal	9/09/2022					
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3C Aggregate Sources	5/02/2021	X	X	X	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
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García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Cercarbono	21/05/2021	X	X	X	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020

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Henao Arieta Juan Pablo	jphenao@icontec.org	Forestry Engineer Geographic Information Systems Specialist	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation VCS	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Henao Arieta Juan Pablo	jphenao@icontec.org	Forestry Engineer Geographic Information Systems Specialist	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Biocarbon Registry	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Henao Arieta Juan Pablo	jphenao@icontec.org	Forestry Engineer Geographic Information Systems Specialist	Antioquia	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Cercarbono	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Henao Arieta Juan Pablo	jphenao@icontec.org	Forestry Engineer Geographic Information Systems Specialist	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3B Land Use-REDD	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Henao Arieta Juan Pablo	jphenao@icontec.org	Forestry Engineer Geographic Information Systems Specialist	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3C Aggregate Sources	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020

Last Name First Names	Email	Profession	Regional	Current Qualification	Initial Qualification Date	Lead Auditor	Auditor	Technical Expert	AT/sector	Remarks
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3C Aggregate Sources	2/02/2021	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3B Land Use-REDD	2/02/2021	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Cercarbono	21/05/2021	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Biocarbon Registry	21/05/2021	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation VCS	14/04/2020	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Torres Gomez Maria Alejandra	mtorres@icontec.org	Ing. Forestal	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation VCS	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Torres Gomez Maria Alejandra	mtorres@icontec.org	Ing. Forestal	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Biocarbon Registry	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Torres Gomez Maria Alejandra	mtorres@icontec.org	Ing. Forestal	Antioquia	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector Afforestation and reforestation Cercarbono	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Torres Gomez Maria Alejandra	mtorres@icontec.org	Ing. Forestal	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3B Land Use-REDD	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Torres Gomez Maria Alejandra	mtorres@icontec.org	Ing. Forestal	Antioquia	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019	12/01/2023	X	X	X	14.1	Authorized to provide services under the scope of ISO/IEC

Last Name First Names	Email	Profession	Regional	Current Qualification	Initial Qualification Date	Lead Auditor	Auditor	Technical Expert	AT/sector	Remarks
				Sector AFOLU 3C Aggregate Sources						17029:2019 and ISO 14065:2020

Table 34. Competence of members Technical Reviewers

Surnames and First Names	Correo electronico	Profession	Regional	Current Qualification as Speaker/Technical Reviewer	Date of qualification as Speaker/Technical Reviewer	AT/sector	Remarks
Carreño Cucaita Angie Carolina	acarreno@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Forestry Sector. Icontec Forestry Project Guide	25/04/2023	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarreno@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Forestry Sector. NTC 6208:2016	25/04/2023	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarreno@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Sector AFOLU 3C Aggregate Sources	25/04/2023	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarreno@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 2006 and 2019 Sector AFOLU 3B Land Use-REDD	25/04/2023	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarreno@icontec.net	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 CERCARBONO Program - Carbon Certifier	25/04/2023	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarreno@icontec.net	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 - PROCLIMA.	25/04/2023	14,1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carreño Cucaita Angie Carolina	acarreno@icontec.net	Forestry Engineering	Center	Validator and verifier of GHG mitigation projects under ISO 14064-2:2006 and 2019 VCS	25/04/2023	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Carvajal Guerra Camilo Andres	CCRVajal@iContec.org	Ing. Ambiental	Antioch	Sustainability Seal	1/09/2017		
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Forestry Sector. Icontec Forestry Project Guide	23/05/2022		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and	23/05/2022		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020

Surnames and First Names	Correo electronico	Profession	Regional	Current Qualification as Speaker/Technical Reviewer	Date of qualification as Speaker/Technical Reviewer	AT/sector	Remarks
				2019 Forestry Sector. NTC 6208:2016			
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 2006 and 2019 Sector AFOLU 3C Aggregate Sources	23/05/2022		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 2006 and 2019 Sector AFOLU 3B Land Use-REDD	23/05/2022		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 CERCARBONO Program - Carbon Certifier	23/05/2022		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 - PROCLIMA.	23/05/2022		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator and verifier of GHG mitigation projects under ISO 14064-2:2006 and 2019 VCS	23/05/2022		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Forestry Sector. Icontec Forestry Project Guide	5/02/2021	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Forestry Sector. NTC 6208:2016	5/02/2021	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 2006 and 2019 Sector AFOLU 3C Aggregate Sources	5/02/2021	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 2006 and 2019 Sector AFOLU 3B Land Use-REDD	5/02/2021	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 CERCARBONO Program - Carbon Certifier	21/05/2021	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 - PROCLIMA.	21/05/2021	14,1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
García Murillo Laura María	lmgarciam@icontec.org	Forestry Engineering	Center	Validator and verifier of GHG mitigation projects under ISO 14064-2:2006 and 2019 VCS	5/02/2021	14.1	Qualified as technical rev on 23/05/2022Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020

Surnames and First Names	Correo electronico	Profession	Regional	Current Qualification as Speaker/Technical Reviewer	Date of qualification as Speaker/Technical Reviewer	AT/sector	Remarks
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2 Forestry Sector. Icontec Forestry Project Guide	19/12/2019		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 Sector AFOLU 3B Land Use-REDD	2/02/2021		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 Sector AFOLU 3C Aggregate Sources	2/02/2021		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator / Verifier in GHG mitigation projects in 14064-2 Forestry Sector. NTC 6208	19/12/2019		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Forestry Sector. Icontec Forestry Project Guide	19/12/2019	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 2006 and 2019 Sector AFOLU 3C Aggregate Sources	2/02/2021	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2 2006 and 2019 Sector AFOLU 3B Land Use-REDD	2/02/2021	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator/Verifier in GHG mitigation projects in 14064-2: 2006 and 2019 Forestry Sector. NTC 6208:2016	19/12/2019	14.1	Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020
Nieto Rodriguez Victor Manuel	vnieto@icontec.net	Forestry Engineering	Center	Validator and verifier of GHG mitigation projects under ISO 14064-2:2006 and 2019 - VCS	14/04/2020		Authorized to provide services under the scope of ISO/IEC 17029:2019 and ISO 14065:2020

11.2 Annex 2. Clarification requests, corrective action requests and forward action requests

The table below explains how ICONTEC has dealt with the Request for Corrective Action (SAC), Request for Clarification (SA) or Request for Future Action (SAF) describing how the PP has modified the design of the *GHG Project*, corrected the PD, the monitoring report, or provided additional explanations or evidence that satisfied ICONTEC's requests.

This table also explains the issues related to the findings, the responses provided by the *GHG Project* holder, the means of validation/verification of such responses and their documentary references, as well as the changes that resulted to the PD or monitoring report or its accompanying documents:

CAR No.	*01*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *12*	***Date:*** *25-01-2023*
Description of the CAR				

Considering the following text of the standard,

"Project owners must demonstrate carbon rights, with agreements and documents ensuring that the requirement is met, with at least the following information:

(a) Parties signing the agreement(s);
(b) Purpose of the agreement;
(c) Date of agreement;
(d) Name of the GHG project;
(e) Quantification period of GHG emission removals/reductions;
(f) Responsibilities, obligations and rights of each of the signatory parties.

...."

1. *It is requested that the contracts be reviewed, since in several documents such as the contract 01_ECOLOGIC SAS and 01_OtroSi_ECOLOGIC SAS and the other documents signed with the other owners, it is necessary to:*

3. Los proyectos de carbono desarrollados por CO2CERO se hacen basados en la GUIA PARA LA FORMULACION, VALIDACION Y VERIFICACION DE PROYECTOS FORESTALES DE MITIGACION DE CAMBIO CLIMATICO VERSION: 2.0 del ICONTEC. El responsable del proyecto de mitigación debe asegurar la permanencia de la actividad forestal, por el tiempo de duración del proyecto. En este sentido, las auditorias de seguimiento y verificación permitirán evaluar la permanencia de la actividad forestal. El responsable del proyecto de mitigación debe estimar y mantener una reserva del 15% del total de las reducciones/remociones verificadas. Este porcentaje permite cubrir los aspectos relacionados con permanencia, riesgo e incertidumbre. En todos los casos, este porcentaje deberá ser descontado de los bonos de carbono certificados, no podrá comercializarse y estará bajo la custodia de la entidad certificadora.

CUARTA. Por el cual se aclara el contrato anexado una consideración de la siguiente manera: CONSIDERACIÓN 3 - Los proyectos de carbono desarrollados por CO2CERO se hacen basados en la GUIA PARA LA FORMULACION, VALIDACION Y VERIFICACION DE PROYECTOS FORESTALES DE MITIGACION DE CAMBIO CLIMATICO VERSION: 2.0 del ICONTEC.

Where, according to the market, not all projects apply for the Guide, and more so considering what is mentioned by ONAC under the 2022-005-GEI act, where this document loses viability, therefore, it is necessary to modify, and more so when the project that is in validation and verification is proposed with other guidelines.

2. *The contractual object, as shown in the following image, does not correspond to the audited project for any of the signed contracts, The signed contracts have different names of the project and none of them are directly linked to the name of the project that is currently being audited which is called "Forest Project Ecological Corridors of the Orinoquia"*

PRIMERA. OBJETO CONTRACTUAL: El presente contrato tiene como objeto la vinculación de la plantación de **EL CLIENTE** al PROYECTO FORESTAL DE COMPENSACIÓN DE EMISIONES DE GASES EFECTO INVERNADERO – GEI, PROYECTO FORESTAL CO2CERO, cuya administración estará a cargo de CO2CERO, quien se encargará de la gestión administrativa técnica y de comercialización, para garantizar no solo la certificación del PROYECTO DE CARBONO sino también la cuantificación y certificación de los BONOS DE CARBONO generados por el proyecto, para que luego puedan ser vendidos en el mercado nacional de BONOS DE CARBONO, gestión por la que EL CLIENTE pagará a CO2CERO una remuneración económica que queda establecida en el presente contrato junto con las demás disposiciones del caso.

PRIMERA. OBJETO CONTRACTUAL: Establecer las reglas y condiciones que se deberán tener en cuenta para que ECOLOGIC haga la vinculacion del proyecto forestal del cliente al programa forestal CO2CERO Vichada, lo administre y comercialice en el mercado los BONOS DE CARBONO que la plantación del cliente produzca. Asimismo se regulará la remuneración y la forma de pago a favor de ECOLOGIC por la ejecución de las actividades establecidas en el presente contrato.

PRIMERA. Por la cual se modifica la cláusula primera del contrato, la cual quedará de la siguiente manera: OBJETO CONTRACTUAL: Establecer las reglas y condiciones que se deberán tener en cuenta para que CO2CERO haga la vinculacion del PROYECTO FORESTAL DE CLIENTE al programa forestal de Compensacion de Emisiones de GEI de CO2CERO, lo administre comercialice en el mercado de los BONOS DE CARBONO que la plantación del CLIENTE produzca Asimismo, se regulará la remuneración y la forma de pago a favor de ECOLOGIC por la ejecucion de las actividades establecidas en el presente contrato.

Appropriate modifications need to be made.

Project Developer's Response	***Date:*** *17-02-2023*
The corresponding modifications are made with a new contract for the development, administration, and commercialization of carbon credits, *signed between CO2CERO S.A.S as provider and owner of the project, and the Client or participant. Clarity is given regarding the name of the initiative, the methodology and the program selected for the development of the project.*	

Documentation submitted by the project developer
AUDITORIA_VERIFICACION_2022\1_Acuerdos

Evaluation of the audit team	***Date:*** *27-02-2023*
Giving clarity in the first instance, that the project, once started, decides to change the name of the project from "Orinoquia Ecological Corridors Forest Project" to "Orinoquía Alcaraván Forest Project", so all the findings will be reviewed with the new name of the project. *The 9 new documents are reviewed, where the BCR standard is complied with.* *CAR Closed*	

CAR No.	*02*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2*	***Date:*** *25-01-2023*
Description of the CAR				

The role of the client within the contract is unclear, as it is understood that it is the client who must pay for a full value of bonds. The clarification should be made by differentiating the different participants by ha, since the amounts should be differentiated by the different participants and not a general amount.

6.1. HONORARIOS POR CERTIFICACIÓN DEL PROYECTO FORESTAL Y EL PROGRAMA SOMBRILLA:

EL CLIENTE pagará a CO2CERO la suma de cien mil pesos m/c ($100.000) + el IVA correspondiente, por cada cien bonos de carbono generados en su primera certificación hasta un tope máximo de veinte millones ($20.000.000) + IVA, a título de honorarios y por una sola vez, por concepto de la elaboración y diseño del PROGRAMA SOMBRILLA durante los 20 años del contrato, que permita a ORGANISMO CERTIFICADOR su certificación bajo las normas del PROTOCOLO PARA PROGRAMAS DE COMPENSACION DE EMISIONES DE GASES EFECTO INVERNADERO MEDIANTE LA EJECUCION DE ACTIVIDADES EN EL SECTOR FORESTAL.

Si el proyecto vinculado genera 1.000 o menos bonos de carbono en su primera certificación, estará exento del pago de dichos honorarios.

Project Developer's Response	***Fecha:*** *17-02-2023*
The corresponding modifications are made with a new contract for the development, administration and commercialization of carbon credits*, signed between CO2CERO S.A.S as provider and owner of the project, and the Client or participant.* *It is clarified that individual contracts are made with each of the participants, each of them receives a* report with the amount of carbon credits that they certified *according to the results of the forest inventory carried out in each plantation and property. Clause 6.1 of the contract refers to a single charge that is made to each of the participants in the first certification for fees, this charge is linked to the number of vouchers certified by the participant, not by the overall project.*	
Documentation submitted by the project developer	
AUDITORIA_VERIFICACION_2022\1_Acuerdos	
Evaluation of the audit team	***Date:*** *27-02-2023*
The information submitted by the developer is reviewed and the finding is complied with. *CAR Closed*	

CAR No.	*03*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *12*	***Date:*** *25-01-2023*
Description of the CAR				

Among the participants of the project, there is ECOLOGIC as owner of land (Galapagos) and as a service provider (forest inventory, field methodologies, etc.).

Where is the form of contracting a third party (ECOLOGIC) for the collection of field information (Forest inventory) and what would that remuneration be, who is responsible for paying for this service or in what document is it immersed, along with the responsibility of each of the parties?

Project Developer's Response	***Date:*** *17-02-2023*

ECOLOGIC SAS, as a company that develops agroforestry services, has worked in several activities of the forestry sector in Colombia, one of them is in the monitoring of forest cover of plantations and forests. On the other hand, it has its own commercial reforestation project of Acacia mangium, in the department of Puerto López (Meta), taking care of the establishment, management and control of the plantations, for their subsequent transformation into timber products, this is the case of the Galapagos property.

Understanding that ECOLOGIC SAS is in the role of participant of the Orinoquía Alcaraván Forestry Project, it has rights and duties established in the contract for the development, administration and commercialization of carbon credits, *signed between CO2CERO S.A.S as provider and owner of the project, and the Client, in this case ECOLOGIC SAS; in this clause it is indicated as obligations of the client (iii.* Assume the expenses regarding the Forest Inventory ... once CO2CERO S.A.S sells the bonds, an invoice will be sent for that value), in this way it is understood that ECOLOGIC SAS and each of the participants of the project will pay the value concerning the Forest Inventory, which will be discounted according to the number of plots raised by each participant and the unit value of these, once the bonds are marketed, through an invoice from CO2CERO S.A.S. *to the participant; This is related to the fact that CO2CERO S.A.S. will finance the survey of the plots, until the moment in which the bonds are marketed.*

*On the other hand, in consideration number iv, "*CO2CERO S.A.S. reserves the right to choose the entity in charge of the development of the forest inventory, when it bases its reasons on aspects such as economic or technical convenience in favor*". To this end, CO2CERO S.A.S generates a request for quotation for the survey of plots in the desired areas to be monitored, sent to those suppliers who, for various reasons, have worked and delivered products of this work to CO2CERO S.A.S. The latter will choose the provider that meets the technical and economic requirements, to obtain the greatest benefit and rigor of the project. Understanding this and that ECOLOGIC SAS is a leading company in the survey of plots, its selection was given for the Orinoquía Alcaraván Forestry Project.*

This relationship is covered by a "Contract for the provision of professional services for the execution of forest monitoring" in which *CO2CERO S.A.S contracts ECOLOGIC SAS for the execution of forest monitoring of the Sombrilla Orinoquia project, now Alcaraván de la Orinoquia, in which the execution of 139 plots corresponding to 1,117 hectares planted with forest plantations with a unit price per plot is evidenced; these correspond to the total number of plots made in the project, including those of the Galapagos property (ECOLOGIC SAS), both in the total number of plots and in the corresponding total value to be paid.*

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\1_Acuerdos\01_ECOLOGIC SAS.pdf*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\01_Inventario Forestry\CONTRATOCO2CERO S.A.S-ECOLOGIC_PF_AlcaravánOrinoquía.pdf*

Evaluation of the audit team	***Date:*** *27-02-2023*

The developer has made the pertinent clarifications by attaching the necessary documents to solve the finding.

CAR Closed

CAR No.	04	**Requirement No.**	BCR TOOL ODS	**Date:** 25-01-2023

Description of the CAR

To provide traceability to the related information in the SDG tool template, it is necessary to support the source of the reference values used in the tool for the different SDGs, taking the following image as a reference:

	Objetivo	Indicador	Unidad	Meta	Valor de referencia
1.3	Implementar a nivel nacional sistemas y medidas apropiados de protección social para todos, incluidos niveles mínimos, y, de aquí a 2030, lograr una amplia cobertura de las personas pobres y vulnerables.	1.3.1 Proporción de la población cubierta por niveles mínimos o sistemas de protección social, desglosada por sexo, distinguiendo entre los niños, los desempleados, los ancianos, las personas con discapacidad, las mujeres embarazadas, los recién nacidos, las víctimas de accidentes de trabajo y los pobres y los grupos vulnerables	%	Aumentar	
1.4	De aquí a 2030, garantizar que todos los hombres y mujeres, en particular los pobres y los vulnerables, tengan los mismos derechos a los recursos económicos y acceso a los servicios básicos, la propiedad y el control de la tierra y otros bienes, la herencia, los recursos naturales, las nuevas tecnologías apropiadas y los servicios financieros, incluida la micro financiación.	1.4.1 Proporción de la población que vive en hogares con acceso a servicios básicos	%	Aumentar	55
		1.4.2 Proporción del total de la población adulta con derechos seguros de tenencia de la tierra: a) que posee documentación reconocida legalmente al respecto y b) considera seguros sus derechos, desglosada por sexo y tipo de tenencia	%	Aumentar	7

Project Developer's Response	***Date:*** 17-02-2023

In the quest to demonstrate the SDGs that positively impact the Alcaraván Orinoquía Forestry Project, CO2CERO S.A.S. made the request to the different participants of the project, supporting documentation that points out and supports the indicators indicated by the SDG tool of Biocarbon Registry; Since the response to the request varied in time, the base information was taken into account, based on those who socialized this information.

In this way, the "reference value" corresponds to the average of the information provided by the participants, found in the year of the start of the project (2018) and/or one year before it started (2017); However, corrective modifications were made with respect to the correspondence with the unit of measurement.

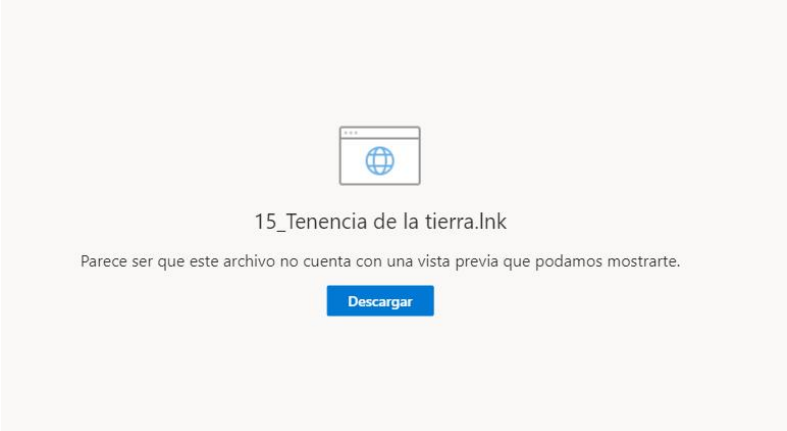
Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS*

Evaluation of the audit team	***Date:*** 27-02-2023

Conducting a detailed review of each SDG, it is found that:

1. *For SDG 1-1.4.1 "Proportion of the population living in households with access to basic services", it is found that the response is addressed to only 1 of the 9 project participants, so the proportion that is evidenced in the email of the document "ResponseofPoint1" and the Excel "SDG Support", is not enough to sustain the value, unless the participation that this participant has within the project is first calculated and in this way if the representation that he or she has within the entire project is calculated, it is also important to mention that the percentage that is being applied, was the one calculated for* ***Proportion of people who went from having an informal job, to formal employment: People who were hired on a daily basis and went on to have an employment contract.*** *Take into account the headline goal of SDG 1.4 which is "By 2030, ensure that all men and women, in particular the poor and vulnerable, have equal rights to economic resources and access to basic services, ownership and control over land and other assets. Heritage, natural resources, new appropriate technologies and financial services, including microfinance." And this analysis should be presented for the project as a whole.*
2. *For SDG1-1.4.2 "Proportion of the total adult population with secure land tenure rights: (a) possessing legally recognized land tenure documentation and (b) considering their rights secure, disaggregated by sex and type of tenure" the information is not accessible, as shown below:*



3. *For SDG 1-1.5.4 "Proportion of local governments adopting and implementing local disaster risk reduction strategies in line with national disaster risk reduction strategies", the related information for the 2 municipalities that are part of the department of Meta in document "PDGRD_Meta_2018" is welcomed.*
4. *For SDG 2-2.4.1 "Proportion of agricultural area where productive and sustainable agriculture is practiced", it is necessary to adjust the formula of the Excel document "SDG Support" as follows:*

G	H	I
Año	**Cantidad de departamentos con PDGRD**	
	Número	**%**
2017	0	#¡DIV/0!
2018	0	#¡DIV/0!
2019	0	#¡DIV/0!
2020	4000	#¡DIV/0!
2021	80000	#¡DIV/0!
2022	100000	#¡DIV/0!
2023	300000	#¡DIV/0!
2024	300000	#¡DIV/0!
2025	300000	#¡DIV/0!
2026	300000	#¡DIV/0!
2027	300000	#¡DIV/0!

However, the data can be found in the document that is reported as "PDEA_Vichada", where, as in the previous comments, a percentage should be generated where it is evidenced according to the surface area that is managed in each of the municipalities the percentage that it represents within the total and report and include what is mentioned in the document "PDEA_Meta" to contemplate the entire area of the project.

5. *For SDG 8-8.3.1 "proportion of informal employment with respect to total employment, disaggregated by sector and sex", the document "BD_Empleados_Galápagos_2022" does not show dates of entry of workers, and the women described in the document "AnswerthePoint2" are not evidenced, in the same way, it is found that the response is addressed only to 1 of the 9 participants of the project, so the proportion that is evidenced should have an analysis of the whole project in general and not of just 1 participant.*

6. *For SDG 8-8.5.1 "Average hourly income of employed women and men, disaggregated by occupation, age and people with disabilities", the documents provided "Galapagos Contributions", "AnswerthePoint3" and "Current Legal Minimum Monthly Wage", do not comply with the indicator, since it is not demonstrating the average hourly income, but the value of the minimum wage in each of the years. Therefore, the respective discount must be made, on the other hand it is not possible to identify occupation, age and the people with disabilities to which the indicator refers.*
7. *For SDG 12-12.1.1, the provisions of the documents "LAW 1844 OF 2017", "Ley_1931_de_2018" and "RES 1447 OF 2018" are complied with*
8. *For SDG 12-12.6.1 "Number of companies that publish sustainability reports", the documents "221027_REPORTE DE SOSTENIBILIDAD_ECOLOGIC_2018 (1)", "221027_REPORTE DE SOSTENIBILIDAD_CO2CERO S.A.S_2019", "221027_REPORTE DE SOSTENIBILIDAD_CO2CERO S.A.S_2020" and "221213_REPORTE DE SOSTENIBILIDAD_ECOLOGIC_2019" are complied with.*
9. *For SDG 13-13.2.2 "Total GHG emissions per year", the following documents are reviewed: "BUR3 - COLOMBIA 2019", "Eva. of the Vic Cattle Heads", where the emissions reported for the Vichada are evidenced, where, as in the previous comments, a percentage should be generated where it is evidenced according to the area that is managed in each of the municipalities the percentage that it represents within the total.*
10. *For SDG 13-13.3.1 "To the extent that (i) global citizenship education and (ii) education for sustainable development is mainstreamed into (a) national education policies, (b) curricula, (c) teacher education and (d) student assessment." The documents attached to the folder "AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS/SDG 13/13.3.1" were reviewed where all the trainings have been focused on 1 participant and not on the 9, as an improvement action, the need to work with all project participants in the fulfillment of the project's SDGs will be left in writing within the document.*
11. *For SDG 15-15.1.1 "Forest area as a proportion of total area", the total area of the project should be considered and not just the eligible area of the project, as there is a bias in the values from the outset.*
12. *For SDG 15-15.2.1 "Progress in sustainable forest management" with respect to planting and harvesting plans within the participating farms, evidence the progress that has been made in relation to what was in place before the start date of the project and what has been improved in the project verification period.*

Open SAC

Project Developer's Response	***Date:*** *10-03-2023*

The requirements are solved in the following way:

1. *A percentage assessment of participation in the SDGs is carried out, taking into account the contribution in the eligible area with respect to the total project, in order to establish the relative value of each participant's contribution; In order to determine the value of indicator 1.4.1, taking into account the databases of workers provided by the participants, which shows the year of affiliation and the public services present on the property, it is necessary to mention that all the participants who responded have pumped water, electricity from solar panels or gasoline and gas from pipettes. It is understood that they are present from the year of attachment of the first person, who will act as the person in charge of the care of the forest heritage. For each participant, a percentage value was generated with respect to the total number of workers estimated to present themselves by 2027, this value was multiplied by the relative contribution value of each participant, in such a way that the sum of this evidenced the value of the indicator.*
2. *The contents of the folder are adjusted to present the Certificates of Tradition and Freedom of the participants, recognized as legal documentation that evidences the clear tenure of the land, in the same way it is differentiated by sex.*
3. *The Departmental Disaster Risk Management Plan of the municipality of Vichada is added, thus adjusting the values for this indicator.*
4. *Adjustments are made in the formulas, as well as the proportion of the agricultural area in which sustainable agriculture is practiced, in the department of Meta. In order to generate a percentage that evidences the surface area contributed by the municipalities that are part of the project, a percentage assessment of participation is made with respect to the departmental total; this value was multiplied with respect to the area proposed by the Agricultural Extension Plans, in such a way that the sum represents the area of participation of the municipalities with its respective percentage value that will correspond to the indicator.*
5. *The information in the databases of workers provided by the participants is added, which shows the year of employment, gender and type of contract they have; the women described in the document "AnswerthePoint2" who do not appear in the Database correspond to those who suffered some type of disengagement. In the same way, to obtain the value of the indicate for the entire project, the percentage assessment of participation in the SDGs is considered, considering the contribution in eligible planted area with respect to the total of the project, generated for the indicated 1.4.1.*
6. *The average hourly income of employed women and men is calculated, taking as a conservative scenario, based on official sources, that all workers are paid 1 SMLV, without differentiation by age, sex, or type of contract. In terms of occupation, according to what was reported and evidenced in the field audit, women frequently work in General Services or Administrative personnel, while men frequently work in Forestry Care and Management; It is necessary to mention that the SDG is established by default according to the sector and type of activity.*
7. *Full compliance is given.*
8. *Full compliance is given.*
9. *Given that the objective is to incorporate measures related to climate change, having as an indicator the reduction of total greenhouse gas emissions per year, the area of influence in which reduction/removal activities would be generated corresponds to the project area, in this way it is evaluated according to the identification of land use alternatives of the baseline scenario. The one that generates emissions corresponds to extensive livestock farming, for this the emissions that would have occurred in the scenario without the project are determined, counting the assumption of having 1.5 head of cattle in a hectare left unplanted. However, the national emissions reduction scenario is based on the information of the BUR 2019, projecting the reduction of emissions according to the average rate of decrease given in the last 10 years, while to evidence the emissions given in the municipal area, the percentage of municipal participation is generated with respect to the total area of the country and is related as a percentage with respect to the base year. while for the other years, the same rate of decline determined by the BUR is considered.*
10. *It is expected that for the next certification, the project owner will have a compendium of training that establishes education focused on sustainable development for the interested participants belonging to the project, under the environmental, social, and economic approaches.*
11. *Relevant changes are made, including the total planted areas within the project boundaries.*
12. *It is evaluated in the form of a timeline, in which the coverage at the beginning or previous year (2018 or 2017) in which the project begins is evidenced by satellite images, contrasted with images from 2022 or 2023, in which the progress of sustainable forest management is evidenced, based on the establishment and management of forest plantations, with acclimatized commercial species, in the same way, good sustainable planting practices and environmental protection can be evidenced in the Forest Establishment and Management Plans.*

It is necessary to mention that ECOLOGIC SAS acts as an administrative company in charge of the maintenance, care, and protection of the planted area of SULTANA SAS, therefore, the contributions to the SDGs related to workers, have an impact on both participants.

Documentation submitted by the project developer

The requirements are solved in the following way:

1. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 1\1.4.1 and AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Sheet 1.4.1*
2. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 1\1.4.2 and AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Sheet 1.4.2*
3. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 1\1.5.4 and AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Sheet 1.5.4*
4. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 2\2.4.1 and AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Sheet 2.4.1*
5. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 8\8.3.1 and AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Sheet 8.3.1*
6. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 8\8.5.1 and AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Sheet 8.5.1*
7. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12\12.1.1*
8. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12\12.6.1*
9. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12\12.6.1 and AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Sheet 12.6.1*
10. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12\13.3.1*
11. *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12\15.2.1 and AUDITORIA_VERIFICACION_2022\12_Plan of Forest Establishment and Management\PEMF*

For all numerals:

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia_V3*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support*

To demonstrate the administration of ECOLOGIC SAS with SULTANA

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ECOLOGIC-SULTANA Support*

Evaluation of the audit team	***Date:*** *21-03-2023*

Conducting a detailed review of each SDG, it is found that:

- *For SDG 1-1.4.1 "Proportion of the population living in households with access to basic services", the review is closed.*
- *For SDG1-1.4.2 "Proportion of the total adult population with secure land tenure rights: (a) possessing legally recognized documentation and (b) considering their rights secure, disaggregated by sex and type of tenure", the review is considered complete.*
- *For SDG 1-1.5.4 "Proportion of local governments adopting and implementing local disaster risk reduction strategies in line with national disaster risk reduction strategies" The review is closed*
- *For SDG 2-2.4.1 "Proportion of agricultural area under productive and sustainable agriculture" The review is closed.*
- *For SDG 8-8.3.1 "ratio of informal employment to total employment, disaggregated by sector and sex", the revision is finalized.*
- *For SDG 8-8.5.1 "Average hourly earnings of employed women and men, disaggregated by occupation, age and persons with disabilities", the revision is concluded.*
- *For SDG 13-13.2.2 "Total GHG emissions per year", the review is finalized.*
- *For SDG 13-13.3.1 "To the extent that (i) global citizenship education and (ii) education for sustainable development is mainstreamed into (a) national education policies, (b) curricula, (c) teacher education and (d) student assessment." The review is closed.*
- *For SDG 15-15.1.1 "Forest area as a proportion of total area", the review is closed.*
- *For SDG 15-15.2.1 "Progress in sustainable forest management", the review is closed.*

CAR Closed

CAR No.	*05*	***Requirement No.***	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities* *11.2* *Step 3*	***Date:*** *25-01-2023*

Description of the CAR

The barrier analysis mentioned within the DP and established within the programmed methodology, as indicated below, is not found:

"Once you demonstrate the list of likely land-use alternatives, go to step 2 (Investment Analysis) or Step 3 (Barrier Analysis), as at least one of these two steps is necessary to demonstrate the additionality of the project."

Project Developer's Response	***Date:*** *17-02-2023*

The demonstration of the additionality of the Orinoquía Alcaraván Forest Project is justified under the analysis of barriers that prevent or limit the implementation of a GHG removal project. This analysis follows the step-by-step methodology set out in the BCR0001 V 3.0 Document, for which the analysis of barriers is presented in the document Adicionalidad_*EcoOrinoquia Corridors.xlsx in the Barriers Analysis sheet, which exposes the identified barriers that would prevent the implementation of a productive project; those with pale yellow color will correspond to the identified barriers, that in the case of commercial reforestation land use, it identifies 9 barriers, characterized by being the one with the most, which due to the implementation of a PRGEI in the participation of the carbon market exceeds 7, leaving only 2 of them as a remainder; Their justification is presented as a commentary in each of the cells.*

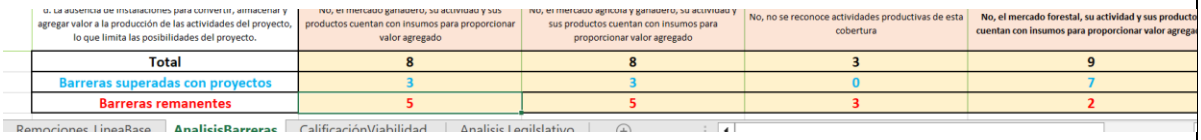
*In section "*3.2.3.2. Barriers that would impede the implementation of the *project" of the DDA, the methodology used and the step-by-step for the determination of the situational status and in terms of barriers of the project are indicated, which is complemented by further explanation of the process.*

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\2_Adicionalidad\Adicionalidad_AlcaravanOrinoquia.xlsx*
- *Project AUDITORIA_VERIFICACION_2022\7_Documento\PD_Alcaravan_Orinoquia.docx*

Evaluation of the audit team	***Date:*** *27-02-2023*

The totals evidenced in the document are not related to the results presented for the resolution of this finding, as observed below:



	d. La ausencia de instalaciones para convertir, almacenar y agregar valor a la producción de las actividades del proyecto, lo que limita las posibilidades del proyecto.	No, el mercado ganadero, su actividad y sus productos cuentan con insumos para proporcionar valor agregado	No, el mercado agrícola y ganadero, su actividad y sus productos cuentan con insumos para proporcionar valor agregado	No, no se reconoce actividades productivas de esta cobertura	No, el mercado forestal, su actividad y sus producto cuentan con insumos para proporcionar valor agrega
Total		8	8	3	9
Barreras superadas con proyectos		3	3	0	7
Barreras remanentes		5	5	3	2

Remociones_LineaBase | AnalisisBarreras | CalificaciónViabilidad | Analisis Legislativo

Resulting in:

Pastures for total livestock: 6, barriers overcome: 1 and remaining barriers: 5

Mosaic of pastures, crops and natural spaces: total: 6, barriers overcome: 3 and remaining barriers: 3

Unproductive pastures: total: 2, barriers overcome: 0 and remaining barriers: 2

Commercial reforestation that may include PRGEI: total: 7, barriers overcome: 6 and remaining barriers: 1

Open CAR

Project Developer's Response	***Date:*** *10-03-2023*

Corresponding adjustments are made for total barriers, exceeded barriers, and remaining barriers, in the file and the corresponding ones.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\2_Adicionalidad\Adicionalidad_AlcaravanOrinoquia_V2.xlsx*
- *AUDITORIA_VERIFICACION_2022\Project 7_Documento\PD_Alcaravan_Orinoquia_V3.docx*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\02_Reporte Monitoring\RM_AlcaravanOrinoquia_V3.docx*

Evaluation of the audit team	***Date:*** *21-03-2023*

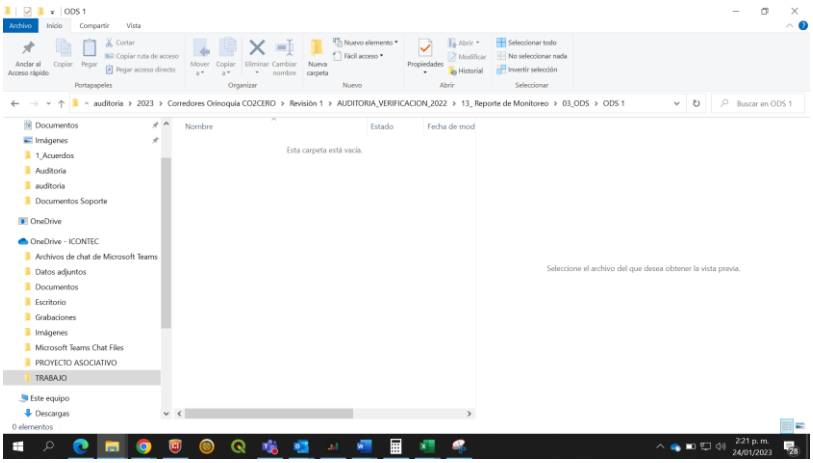
The review of the new documentation is carried out, where the pertinent modifications were made.

CAR Closed

CAR No.	*06*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	***Date:*** *25-01-2023*

Description of the CAR

The SDG1 folder is empty within the project annexes:



Project Developer's Response	***Date:*** *17-02-2023*

Numbered subfolders are added to the folder with the impact indicators, which present supporting documents of the reference value and the years of implementation.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 1*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx*

Evaluation of the audit team	***Date:*** *27-02-2023*

You can find all the documentation regarding SDG1.

CAR Closed

CAR No.	*07*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	***Date:*** *25-01-2023*

Description of the CAR

SDG number 2 should have reference values associated with the regions where the projects are established and not with the company (CO2CERO S.A.S.).

Project Developer's Response	***Date:*** *17-02-2023*

The reference values and for the years of implementation of the project are adjusted, orienting themselves towards the official information provided in the agricultural extension plans of the departments that contain properties in this verification.

It is necessary to note that this SDG is classified by default of compliance according to the focus and sector in which the project is implemented.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 2\2.4.1*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx*

Evaluation of the audit team	***Date:*** *27-02-2023*

For SDG 2-2.4.1 "Proportion of agricultural area where productive and sustainable agriculture is practiced", it is necessary to adjust the formula of the Excel document "SDG Support" as follows:

	G	H	I
	Año	**Cantidad de departamentos con PDGRD**	
		Número	**%**
	2017	0	#¡DIV/0!
	2018	0	#¡DIV/0!
	2019	0	#¡DIV/0!
	2020	4000	#¡DIV/0!
	2021	80000	#¡DIV/0!
	2022	100000	#¡DIV/0!
	2023	300000	#¡DIV/0!
	2024	300000	#¡DIV/0!
	2025	300000	#¡DIV/0!
	2026	300000	#¡DIV/0!
	2027	300000	#¡DIV/0!

However, the data can be found in the document that is reported as "PDEA_Vichada", where, as in the previous comments, a percentage should be generated where it is evidenced according to the surface area that is managed in each of the municipalities the percentage that it represents within the total and report and include what is mentioned in the document "PDEA_Meta" to contemplate the entire area of the project.

Open CAR

Project Developer's Response	***Date:*** *10-03-2023*

Adjustments are made in the formulas, as well as the proportion of the agricultural area in which sustainable agriculture is practiced, in the department of Meta. In order to generate a percentage that evidences the surface area contributed by the municipalities that are part of the project, a percentage assessment of participation is made with respect to the departmental total; this value was multiplied with respect to the area proposed by the Agricultural Extension Plans, in such a way that the sum represents the area of participation of the municipalities with its respective percentage value that will correspond to the indicator.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 2\2.4.1*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Fact Sheet 2.4.1*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia_V3*

Evaluation of the audit team	***Date:*** *21-03-2023*

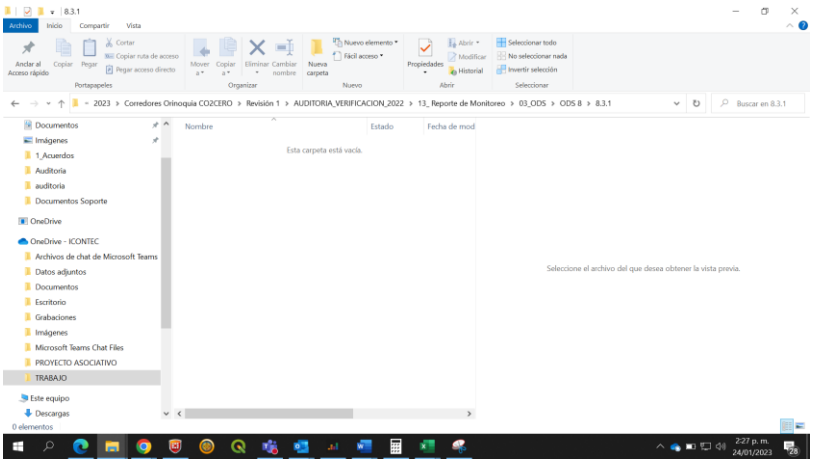
- *For SDG 2-2.4.1 "Proportion of agricultural area under productive and sustainable agriculture" the formula in box M of sheet 2.4.1 of the "ODSs_V2 Support" document should include all results where the formula would be: =+L3/($H$14+$J$14+$K$14)*

CAR Closed

CAR No.	*08*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	***Date:*** *25-01-2023*

Description of the CAR

SDG 8.3.1 does not have any information to support the data:



Project Developer's Response	***Date:*** *17-02-2023*

It is added to the numbered subfolder of the impact indicator, which presents supporting documents of the reference value and the years of implementation.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 8\8.3.1*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx*

Evaluation of the audit team	***Date:*** *27-02-2023*

For SDG 8-8.3.1 "proportion of informal employment with respect to total employment, disaggregated by sector and sex", the document "BD_Empleados_Galápagos_2022" does not show dates of entry of workers, and the women described in the document "AnswerthePoint2" are not evidenced, in the same way, it is found that the response is addressed only to 1 of the 9 participants of the project, so the proportion that is evidenced should have an analysis of the whole project in general and not of just 1 participant.

Open CAR

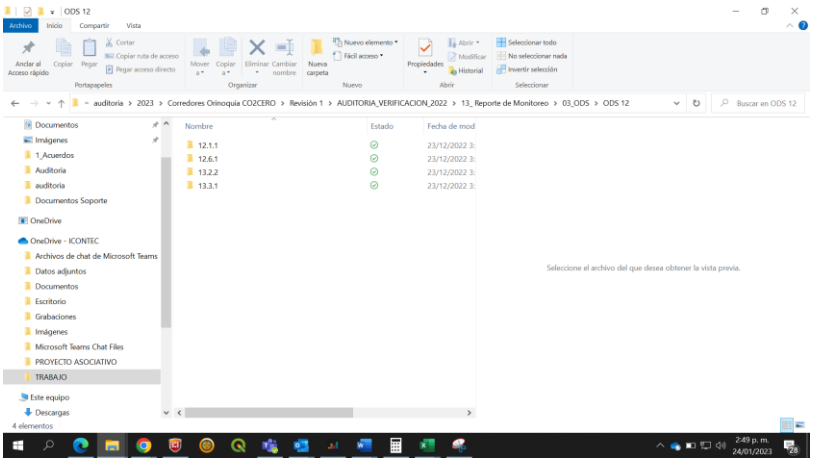
Project Developer's Response	Date: 10-03-2023
The information in the databases of workers provided by the participants is added, which shows the year of employment, gender and type of contract they have; the women described in the document "AnswerthePoint2" who do not appear in the Database correspond to those who suffered some type of disengagement. In the same way, to obtain the value of the indicate for the entire project, the percentage assessment of participation in the SDGs is taken into account, taking into account the contribution in eligible planted area with respect to the total of the project, generated for the indicated 1.4.1.	
Documentation submitted by the project developer	
• AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 8\8.3.1 • AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Fact Sheet 8.3.1 • AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia_V3	
Evaluation of the audit team	**Date:** 21-03-2023
For SDG 8-8.3.1 "ratio of informal employment to total employment, disaggregated by sector and sex", the revision is finalized. CAR Closed	

CAR No.	09	Requirement No.	Standard for the Voluntary Carbon Market Standard_BCR V3.2 17	Date: 25-01-2023
Description of the SAC				
For SDG 8.5.1, there is no evidence from years prior to 2022 to be able to provide traceability to the information.				
Project Developer's Response				**Date:** 17-02-2023
It is added to the numbered subfolder of the impact indicator, which presents supporting documents of the reference value and the years of implementation. In this you can see the values prior to 2022 of the Minimum Legal Wage (SMLV), a value that is paid to most people who work with the project area, while the salary increase for the years after 2022 contains a percentage increase according to expected inflation.				
Documentation submitted by the project developer				
• AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 8\8.5.1 • AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs • AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx				
Evaluation of the audit team				**Date:** 27-02-2023
For SDG 8-8.5.1 "Average hourly income of employed women and men, disaggregated by occupation, age and people with disabilities", the documents provided "Galapagos Contributions", "AnswerthePoint3" and "Minimum Legal Monthly Wage in Force", do not comply with the indicator, since they are not demonstrating the average hourly income, but the value of the minimum wage in each of the years. Therefore, the respective discount must be made, on the other hand it is not possible to identify occupation, age and the people with disabilities to which the indicator refers. Open CAR				
Project Developer's Response				**Date:** 10-03-2023

The average hourly income of employed women and men is calculated, taking as a conservative scenario, based on official sources, that all workers are paid 1 SMLV, without differentiation by age, sex or type of contract. In terms of occupation, according to what was reported and evidenced in the field audit, women frequently work in General Services or Administrative personnel, while men frequently work in Forestry Care and Management; It is necessary to mention that the SDG is established by default according to the sector and type of activity.
Documentation submitted by the project developer
• *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 8\8.5.1* • *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Fact Sheet 8.5.1* • *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia_V3*
Evaluation of the audit team — ***Date:*** *21-03-2023*
For SDG 8-8.5.1 "Average hourly earnings of employed women and men, disaggregated by occupation, age and persons with disabilities", the revision is concluded. *CAR Closed*

CAR No.	*10*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	***Date:*** *25-01-2023*
Description of the CAR				
Because Resolution 1447 of 2018 is the document that applies to SDG 12.2.1, being that the indicator applies to: number of countries as observed below. 12.1.1 Número de países que elaboran, adoptan o aplican instrumentos de política destinados a apoyar la transición hacia modalidades de consumo y producción sostenibles				
Project Developer's Response				***Date:*** *17-02-2023*
A corresponding adjustment is made, aimed at demonstrating the development, adoption and implementation of policy instruments aimed at supporting the transition with a sustainable approach. *Understanding that the project is being developed in Colombia, it is based on Law 1844 of 2017, which adopts the Paris Agreement, generating actions in response to climate change, under the stabilization of GHG concentrations in the atmosphere through actions that seek the transition towards sustainable consumption and production patterns.* *Although this marks a milestone in terms of policy, other laws such as 1931* of 2018 "Establishing guidelines for the management of climate change" and Resolution 1447 of 2018 "Establishing guidelines for the management of climate change*" and Resolution 1447 of 2018* "Regulating the monitoring, reporting and mitigation system of mitigation actions...*", generate a compendium of policies and regulations that generate clearer guidelines towards sustainable consumption and production.*				
Documentation submitted by the project developer				
• *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12\12.1.1* • *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx*				

Evaluation of the audit team	***Date:*** *27-02-2023*
For SDG 12-12.1.1, the provisions of the documents "LAW 1844 OF 2017", "Ley_1931_de_2018" and "RES 1447 OF 2018" are complied with the documents. *CAR Closed*	

CAR No.	*11*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	***Date:*** *25-01-2023*
Description of the CAR				
Modify the SDG 12 folder, as it has information from SDG 13 as shown below: 				
Project Developer's Response				***Date:*** *17-02-2023*
The corresponding adjustment is made, so that the folder only shows the impact indicators of this SDG.				
Documentation submitted by the project developer				
• *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12*				
Evaluation of the audit team				***Date:*** *27-02-2023*
The information is modified, leaving each SDG in its respective folder. *CAR Closed.*				

CAR No.	12	Requirement No.	Standard for the Voluntary Carbon Market Standard_BCR V3.2 17	Date: 25-01-2023

Description of the SAC

SDG 13.2 is framed in measures related to climate change in national policies, strategies and plans, however, the indicator is aimed at total GHG emissions per year, where the evidence should be demonstrated with national information and is not compared with that of the project areas to show the contribution that is made by the project.

Project Developer's Response — **Date:** 17-02-2023

These values are adjusted, adding the values of emissions accounted for Colombia, it is valid to mention that information is available until 2018, in this way the emissions were estimated based on the determination of the trend rate evidenced ten years earlier, for which it is multiplied with the last issues counted. In the same way, the value of the expected emissions to be generated in the project area, associated with the presence of livestock, within the current planted areas, is maintained.

Documentation submitted by the project developer

- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 13\13.2.2\13.2.2.xlsx
- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 13\13.2.2\ BUR3 - COLOMBIA 2019.pdf\ Page 63
- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 13\13.2.2\ Eva. of Cattle Vic.pdf\ Page 30
- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx
- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs

Evaluation of the audit team — **Date:** 27-02-2023

For SDG 13-13.2.2 "Total GHG emissions per year", the following documents are reviewed: "BUR3 - COLOMBIA 2019", "Eva. of the Vic Cattle Heads", where the emissions reported for the Vichada are evidenced, where, as in the previous comments, a percentage should be generated where it is evidenced according to the area that is managed in each of the municipalities the percentage that it represents within the total.

Open CAR

Project Developer's Response — **Date:** 10-03-2023

Given that the objective is to incorporate measures related to climate change, having as an indicator the reduction of total greenhouse gas emissions per year, the area of influence in which reduction/removal activities would be generated corresponds to the project area, in this way it is evaluated according to the identification of land use alternatives of the baseline scenario. The one that generates emissions corresponds to extensive livestock farming, for this the emissions that would have occurred in the scenario without the project are determined, counting the assumption of having 1.5 head of cattle in a hectare left unplanted. However, the national emissions reduction scenario is based on the information of the BUR 2019, projecting the reduction of emissions according to the average rate of decrease given in the last 10 years, while to evidence the emissions given in the municipal area, the percentage of municipal participation is generated with respect to the total area of the country and is related as a percentage with respect to the base year. while for the other years, the same rate of decline determined by the BUR is considered.

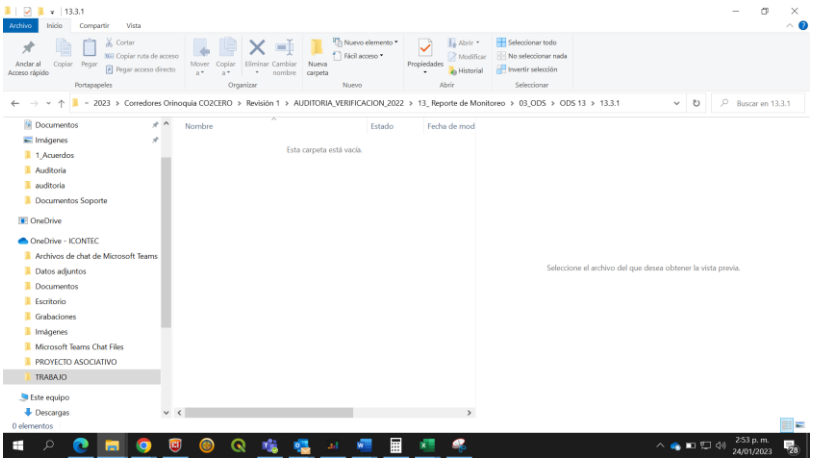
Documentation submitted by the project developer

- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 12\12.6.1
- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs\ODSs_V2 Support, Fact Sheet 12.6.1
- AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia_V3

Evaluation of the audit team — **Date:** 21-03-2023

For SDG 13-13.2.2 "Total GHG emissions per year", the review is finalized. *CAR Closed*

CAR No.	*13*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	***Date:*** *25-01-2023*

Description of the CAR
SDG 13.3.1 is found without any evidence, as shown below: 

Project Developer's Response	***Date:*** *17-02-2023*
It is added to the numbered subfolder of the impact indicator, which presents supporting documents of the reference value and the years of implementation.	

Documentation submitted by the project developer
• *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 13\13.3.1* • *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\General SDGs* • *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx*

Evaluation of the audit team	***Date:*** *27-02-2023*
For SDG 13-13.3.1 "To the extent that (i) global citizenship education and (ii) education for sustainable development is mainstreamed into (a) national education policies, (b) curricula, (c) teacher education and (d) student assessment." The documents attached to the folder "AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS/SDG 13/13.3.1" were reviewed where all the trainings have been focused on 1 participant and not on the 9, as an improvement action, the need to work with all project participants in the fulfillment of the project's SDGs will be left in writing within the document. *CAR Closed*	

CAR No.	14	**Requirement No.**	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	**Date:** 25-01-2023

Description of the CAR

For SDG 15.1.1 it should be demonstrated with the forest area as a proportion of the total area, for example, in 2017 (before the start date) there was X amount of hectares planted within the project area, and in 2018 there were 49.20% of the total area planted, with mapping if necessary to demonstrate compliance with the SDG, Similarly, for SDG 15.2.1, demonstrate the progress that has been made within these same areas with the planting of plantations.

Project Developer's Response	**Date:** 17-02-2023

To demonstrate more evidence of compliance with SDG 15.1.1, a shapefile is added with the coverage before the start of the project (2017), evidencing that there was no forest plantation and as evidenced by the planting plans for the first year 2018, a planting of 49.2% of the total area of the project is carried out.

Documentation submitted by the project developer

AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 15\15.1.1\Cobertura_Antes2017.shp

Evaluation of the audit team	**Date:** 27-02-2023

For SDG 15-15.1.1 "Forest area as a proportion of total area", the total area of the project should be considered and not just the eligible area of the project, as there is a bias in the values from the outset.

Open CAR

Project Developer's Response	**Date:** 10-03-2023

Relevant changes are made, including the total planted areas within the project boundaries.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 15\15.1.1\Area_Plantada_PFAlcaravanOrinoquia.xlsx*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 15\15.1.1\PlanSiembra_PF_AlcaravanOrinoq.xlsx*

Evaluation of the audit team	**Date:** 21-03-2023

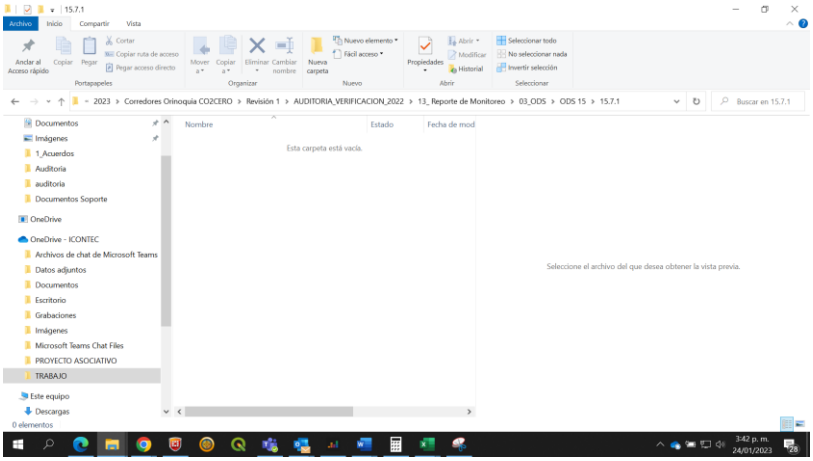
For SDG 15-15.1.1 "Forest area as a proportion of total area", the review is closed.

CAR Closed

CAR No.	15	**Requirement No.**	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *17*	**Date:** 25-01-2023

Description of the CAR

There is no evidence to support the value provided in SDG 15.7.1 as shown below:



Project Developer's Response	**Date:** 17-02-2023

It was not possible to obtain reliable information about the proportion of traded wildlife that has been poached or illegally trafficked for the project area, therefore it differs from the indicators subject to be demonstrated in the SDG. However, from the stories of the people living and/or associated with the project area, they demonstrate activities against commercialization and poaching, as evidenced in the field, along with training on environmental care and biodiversity present in the Galapagos farm, by the participant ECOLOGIC SAS.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\BCR TOOL ODS_AlcaravanOrinoquia.xlsx*
- *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\03_ODS\SDG 13\13.3.1\Minutes\Chap. Biodiversity*

Evaluation of the audit team	**Date:** 27-02-2023

The BCR TOOL ODS is reviewed, and the withdrawal of the SDG in question is evidenced.

CAR Closed

CAR No.	16	**Requirement No.**	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities*	**Date:** 25-01-2023

Description of the CAR

The carbon monitoring methodology document, which was delivered in the field, is not part of the annexes submitted to the audit.

Project Developer's Response	**Date:** 17-02-2023
The methodological document of carbon monitoring executed in the sampled plots of the Alcaraván Orinoquía forest project is added, with the corresponding adjustments.	

Documentation submitted by the project developer
• *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\01_Inventario ForestalPF_AlcaravanOrinoquia_Informe_inventario.pdf*

Evaluation of the audit team	**Date:** 27-02-2023
The relevant document is annexed to the annexes to the project. *CAR Closed*	

CAR No.	17	**Requirement No.**	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities*	**Date:** 25-01-2023

Description of the CAR
Within the above-mentioned document "Carbon Monitoring Methodology. Orinoquia 2022" the following findings have been found: *1. The total number of plots is 139 plots and No. 109* *2. Review the wording of the paragraphs along with their punctuation marks and repeated words.* *3. There was no evidence of the use of NIKON Forestry Pro II hypsometers within the plots or within the site visits carried out.* *4. Among the information storage elements, an application for smartphone devices is named that is not identified within the documents.* *5. Within the calibration of the equipment, it is not clear the use of the equipment that is part of this process, which manages to guarantee the calibration of these.* *6. For the specific project, the size of the plots that can be found (400 and 420 m2) is not differentiated.* *7. The forms delivered (forest inventories) do not have the differentiation of DAPs (DAP 1 and DAP2, for nodes, for example) as mentioned in the document.*

Project Developer's Response	**Date:** 17-02-2023

A solution is provided to the requirements, adjusting the methodological document of carbon monitoring executed in the sampled plots of the Alcaraván Orinoquía forestry project as follows: 1. *The respective correction is made.* 2. *Both the wording and spelling of the document were revised and corrected.* 3. *Vertex Haglof IV, Nikon Forestry Pro II, Trupulse 200L Laser Hypsometer and Haglöf EC II were used for height measurement. In the methodological document section "Measuring instruments and equipment" (page 2), the operation of these instruments and equipment is detailed. The diversity of measuring instruments corresponded to the availability of those in the field, however, all of them have the objective of measuring forest heights and have the required precision and accuracy.* 4. *In the methodological document section "Measuring instruments and equipment" (page 2), the "MapitGIS" application used for data collection in the field is added.* 5. *In the methodological document, section "Measurement and capture of information", subsection "1. Calibration of Measuring Instruments" (p. 3), the methodology for calibrating on-site equipment is added and detailed* 6. *It is added in paragraph 5. Sampling plots, the specification by which two different plot sizes are found, strongly associated with the prevention of the possibility of finding the same limitations present in the plantations of another participant with the same stratum previously monitored, in this way the area of the plots is modified in order to be more representative of these.* 7. *For those individuals who had two DAPs due to the presence of knots or another condition that prevented the data from being taken at 1.3 m, their value was averaged and it was indicated in the observations column that this action was performed. ECOLOGIC recognizes that some tree individuals were not reported such action, for which the pertinent measures of personnel training and supervision of the methodology implemented in the field will be taken in order to reduce errors when marking the selected individuals within the plots.*
Documentation submitted by the project developer
• *AUDITORIA_VERIFICACION_2022\13_ Monitoring Report\01_Inventario ForestalPF_AlcaravanOrinoquia_Informe_inventario.pdf*
Evaluation of the audit team — ***Date:*** *27-02-2023*
The changes in the document in question are evident, which give traceability and response to the finding found. *CAR Closed.*

CAR No.	*18*	***Requirement No.***	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities*	***Date:*** *25-01-2023*
Description of the CAR				
The selection of individuals is not defined within the methodology, with respect to their marking within the plot, so it is possible to find that there are individuals very small in height and others with very small DAP, which do not have any guideline to be or not part of the plot, the due justification of the criteria that were taken into account must be made, As are the north, the minimum height of an individual to be part of the parcel, the minimum diameter of an individual to be part of a plot, if the plot is to be assembled clockwise to make the marking or it is going to be taken pro chute and slope, etc.				
Project Developer's Response — ***Date:*** *17-02-2023*				

It is adjusted in the methodological document section "4. Marking of plot and individuals", the selection criteria of the individuals are defined considering minimum selection diameters and location within the plot. Likewise, the order and marking of the individuals within the plot is graphically related.

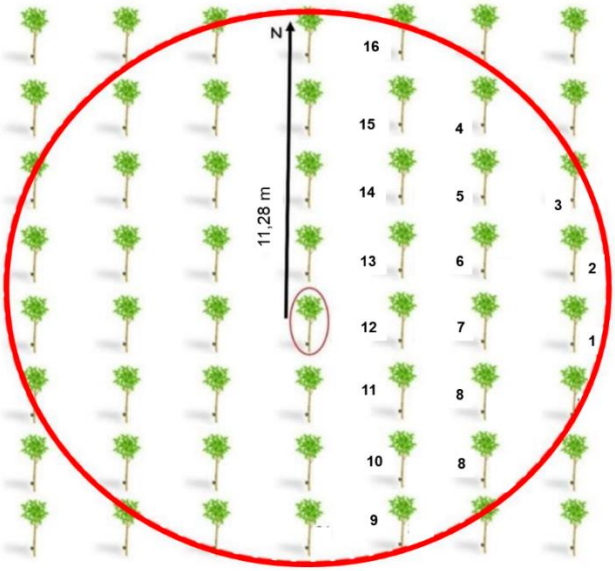


Figure 3. Monitoring Plot Scheme (Carbon Monitoring Methodological Report)

Documentation submitted by the project developer	
• *AUDITORIA_VERIFICACION_2022\13_ ForestalPF_AlcaravanOrinoquia_Informe_inventario.pdf*	*Monitoring Report\01_Inventario*
Evaluation of the audit team	***Date:*** *27-02-2023*
The changes in the document in question are evident, which give traceability and response to the finding found. *CAR Closed.*	

CAR No.	*19*	***Requirement No.***	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities*	***Date:*** *25-01-2023*
Description of the CAR				

Not all individuals complied with the methodology, as some were marked over the knots, and the methodology showed a different procedure for these cases, as shown below.

Project Developer's Response	***Date:*** *17-02-2023*

An action plan is initiated in search of continuous improvement for the monitoring process, thus minimizing errors in the field. To this end, a space assisted by information and communication technologies will be generated to learn about the observations made by the audit to the monitoring exercise in the inventory with the professional staff responsible for the collection of data by the operator; to establish a course of action for continuous improvement in forest monitoring processes.

In the same way, CO2CERO S.A.S. for subsequent certifications, the monitoring operator has been formally requested and socialized that within each plot the required DAP is identified, by marking the points at which said parameter was measured.

ECOLOGIC SAS or whoever takes its place will take the pertinent measures of personnel training and supervision of the methodology implemented in the field in order to reduce errors when marking the selected individuals within the plots, which will be supervised by CO2CERO S.A.S

In the same way, the analysis of the difference in materiality between the data collected in the forest monitoring and those taken in the audit was carried out, for those plots that had observations of taking diameter above or below 1.3 meters with respect to the floor, such as with measurements made in knots or protrusions; From this analysis it is concluded that in only 2 plots there are higher values than those collected in the monitoring, in which the maximum corresponds to a value of 1.3% difference, well below the 5% required; In this way, it is evident that these differences in the measurement do not generate overestimation of carbon, thus complying with the principle of conservatism.

Documentation submitted by the project developer

- *AUD_VERIF_3_2022\13_ Monitoring Report\Forest Inventory\Action Plan\News CO2CERO S.A.S - ECOLOGIC SAS*
- *AUDITORIA_VERIFICACION_2022\17_Auditoria\Hallazgos 30-01-2023\LgParcelas_Seleccionadas.xlsx\Hoja Analisis*

Evaluation of the audit team	***Date:****27-02-2023*

The verification of the information is carried out, resulting in an error of less than the required 5%, so an improvement action is left, in terms of the continuous improvement of the procedures.

CAR Closed

CAR No.	20	Requirement No.	Methodological document in the AFOLU sector BCR0001 Quantification of GHG Emission Reductions - Removal Activities	Date: 25-01-2023

Description of the CAR

Several individuals had the DAP marking below or above the 1.30 DAP, which is what the methodology states, as shown below.

Project Developer's Response	Date: 17-02-2023

On the part of ECOLOGIC SAS or whoever takes its place, the pertinent measures will be taken to train personnel and supervise the methodology implemented in the field in order to reduce errors when marking the selected individuals within the plots. As a measure for future action, the length (1.30 m) of the reference rod will be calibrated every day before starting field activities.

In the same way, the analysis of the difference in materiality between the data collected in the forest monitoring and those taken in the audit was carried out, for those plots that had observations of taking diameter above or below 1.3 meters with respect to the floor, such as with measurements made in knots or protrusions; From this analysis it is concluded that in only 2 plots there are higher values than those collected in the monitoring, in which the maximum corresponds to a value of 1.3% difference, well below the 5% required; In this way, it is evident that these differences in the measurement do not generate overestimation of carbon, thus complying with the principle of conservatism.

Documentation submitted by the project developer

AUDITORIA_VERIFICACION_2022\17_Auditoria\Hallazgos 30-01-2023\LgParcelas_Seleccionadas.xlsx\Hoja Analisis

Evaluation of the audit team	Date:27-02-2023

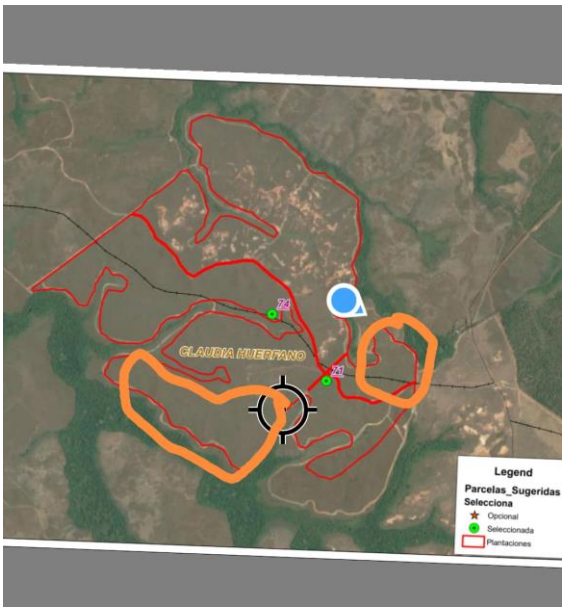
The verification of the information is carried out, resulting in an error of less than the required 5%, so an improvement action is left, in terms of the continuous improvement of the procedures.

CAR Closed

CAR No.	21	Requirement No.	Methodological document in the AFOLU sector BCR0001 Quantification of GHG Emission Reductions - Removal Activities	Date: 25-01-2023

Description of the CAR

During the on-site visit, a validation of areas within Claudia Huerfano's property was carried out, where it was evidenced in the field that these areas do not have forest plantations, so they should be excluded from the project areas for verification, as shown below.



Project Developer's Response	Date: 17-02-2023

The areas of the participant Claudia Huérfano are modified, based on the evidence in the field, making the changes in the GDB and in the shapefile.

Documentation submitted by the project developer

- *AUDITORIA_VERIFICACION_2022\3_Análisis Eligibility\Table V1.xlsx Eligibility*
- *AUDITORIA_VERIFICACION_2022\14_SIG\01_GDB\Alcaravan.gdb\ Elegibilidad_2022_V2_5*
- *AUDITORIA_VERIFICACION_2022\14_SIG\02_SHP\Elegibilidad_2022_V2_5.shp*

Evaluation of the audit team	Date: 27-02-2023

The relevant cartography is reviewed and changes in the areas identified by the audit team are evidenced.

CAR Closed

CAR No.	22	**Requirement No.**	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities*	**Date:** 25-01-2023

Description of the CAR

It is not possible to identify the parcels with their respective codes as can be seen in the Excel document, such information should be able to be supported with cartography, so it is necessary to modify the names of the parcels to the codes related in "Expost_CorredoresEcoOrinoquia_02.12.2022"

OBJECTID_1	OBJECTID	Participan	Name	Especie	Año	Y	X	Elegibilid
1	81	ENLACE ROJO S...	15	Eucalyptus pellita	2020,00000000...	NULL	NULL	Elegible
2	82	ENLACE ROJO S...	11	Eucalyptus pellita	2020,00000000...	NULL	NULL	Elegible
3	83	ENLACE ROJO S...	12	Eucalyptus pellita	2020,00000000...	NULL	NULL	Elegible
4	84	ENLACE ROJO S...	16	Eucalyptus pellita	2020,00000000...	NULL	NULL	Elegible
5	121	ENLACE ROJO S...	Parcela 6	Eucalyptus pellita	2020,00000000...	NULL	NULL	Elegible
6	19	ECOLOGIC SAS	245	Acacia mangium	2021,00000000...	3° 55' 46,842" N	3° 55' 46,842" N	Elegible
7	27	ECOLOGIC SAS	244	Acacia mangium	2021,00000000...	3° 55' 55,728" N	3° 55' 55,728" N	Elegible

Project Developer's Response	**Date:** 17-02-2023

The information corresponding to the unique code of the parcels can be related to the attribute within the shapefile named Concatenad *and the column in the database* No. *Parcel = Expost Unique Parcel Code.*

Documentation submitted by the project developer

AUDITORIA_VERIFICACION_2022\5_Carbono\Ex-Post\Expost_AlcaravanOrinoquia_02.12.2022.xlsx

AUDITORIA_VERIFICACION_2022\14_SIG\02_SHP\Parcelas_V2_1.shp

Evaluation of the audit team	**Date:** 27-02-2023

The traceability of the information is carried out, finding greater clarity with the codes handled in the different databases.

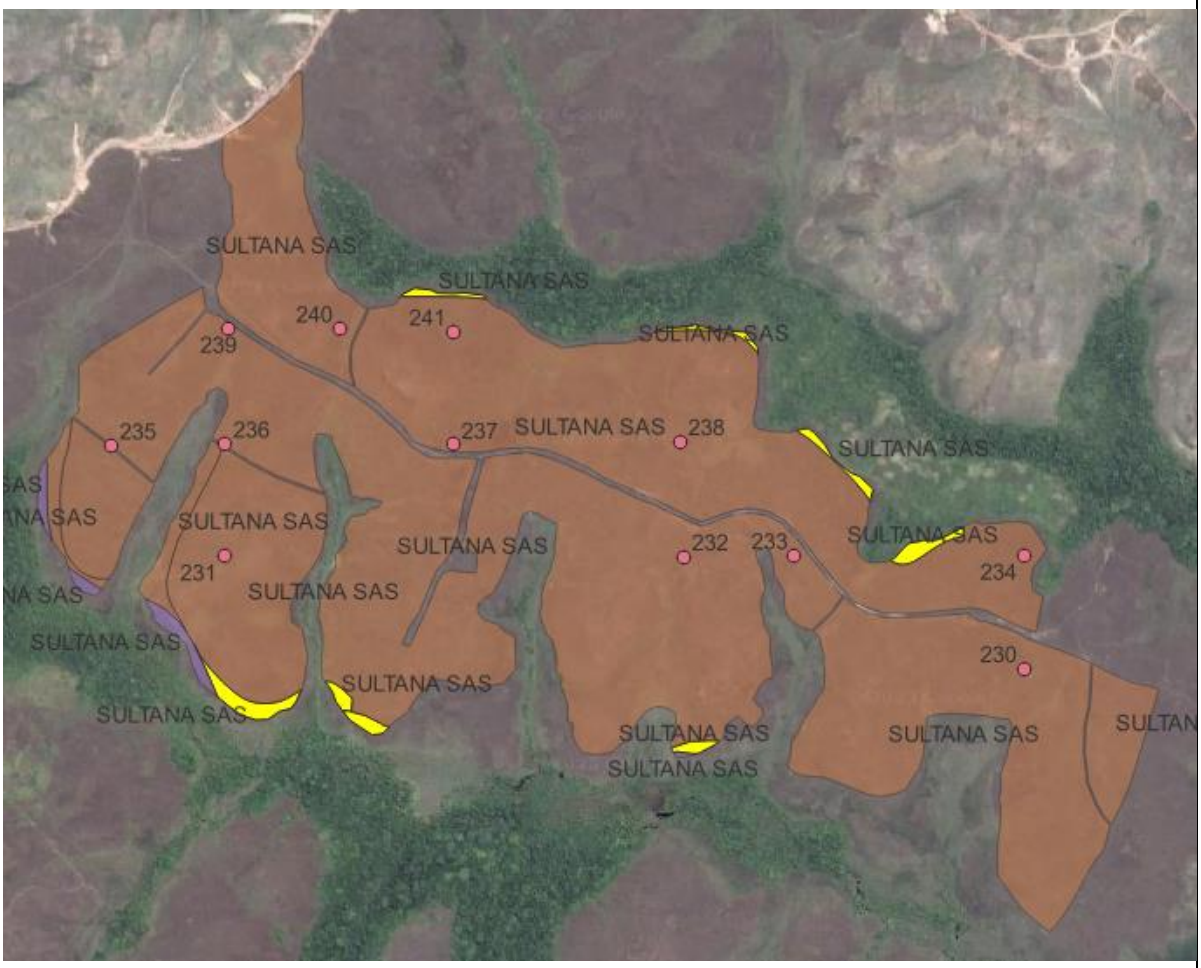
CAR Closed

CL No.	01	**Requirement No.**	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities* *11*	**Date:** 25-01-2023

Description of the CL
A folder of attachments for additionality is found: 1. Analysis of the CIF in the forest chain in Meta, is directed towards species that are not being used within the project. 2. Garcia_2006_PoliticasdelSectorGanadero 3. Colombia Erosion Protocol 4. ReforestaciónComercial_FEDEMADERAS Why are these documents relevant?
Project Developer's Response | ***Date:*** *17-02-2023*
The citation of these documents guides and justifies the analysis of barriers analyzed, and is related due to: *1. It offers a clear analysis of the low availability of access to capital markets, due to investment risks, despite the fact that there is leverage on the part of the CIF, this is evident in Figure 12 of said document, evidencing it as a problem; In the same way, the analysis takes into account the species Pinus caribaea (in the document Pino caribe), a species belonging to the project (Investment barriers, sub-barrier a).* *2. It allows us to diagnose that, for the use of pastureland, with orientation for the development of a livestock project, the Colombian government has a broad political development concerning the livestock sector, currently focused on sustainable livestock. Presenting a slow but progressive transformation, supported by the National Livestock Fund (Institutional barriers, sub-barrier b).* *3. To assess the* barriers due to local ecological conditions, *with respect to* a. Degraded soils (e.g. water/wind erosion, salinization, etc.) *It exposes as a technical input of a state entity, the zoning and evaluation of soil degradation by erosion at national, regional and local scales; allowing, together with the Soil Zoning Map by Degree of Erosion, to determine the degree of erosion of the project area.* *4. It establishes the different policies presented by the commercial reforestation sector in Colombia, evidencing the low Risk related to changes in government policies or laws (Institutional barriers, sub-barrier b)*
Documentation submitted by the project developer
• *AUDITORIA_VERIFICACION_2022\2_Adicionalidad\Adicionalidad_AlcaravanOrinoquia.xlsx* • *AUDITORIA_VERIFICACION_2022\2_Adicionalidad\Support Documents*
Evaluation of the audit team | ***Date:*** *27-02-2023*
The related evidence is clarified. *CL Closed*

CL No.	*2*	***Requirement No.***	*Methodological document in the AFOLU sector* *BCR0001 Quantification of GHG Emission Reductions - Removal Activities*	***Date:*** *25-01-2023*
Description of the CL				

What are the selection criteria of the minimum areas to be eligible areas, the above because areas with similar conditions that are eligible, and ineligible are identified within the project areas as observed below:



Areas in yellow that are eligible and areas in purple that are not eligible, clarify that situation for polygons as needed.

Project Developer's Response	***Date:*** *17-02-2023*
The selection criteria for the eligible areas are those established by the methodology of the standard, therefore, the polygons represented in purple are the ineligible areas, and for the polygons in yellow are other coverages that are eligible; although the corresponding geoprocess is adjusted to dissolve the polygons in question, and thus evidence greater clarity of the result of the eligible areas of the project.	
Documentation submitted by the project developer	
• *AUDITORIA_VERIFICACION_2022\14_SIG\01_GDB\Alcaravan.gdb\ Elegibilidad_2022_V2_5* • *AUDITORIA_VERIFICACION_2022\14_SIG\02_SHP\Elegibilidad_2022_V2_5.shp*	
Evaluation of the audit team	***Date:*** *27-02-2023*

The relevant cartography is reviewed and changes in the areas identified by the audit team are evidenced. *CL Closed*

CL No.	*03*	***Requirement No.***	*Standard for the Voluntary Carbon Market* *Standard_BCR V3.2* *12*	***Date:*** *25-01-2023*
Description of the CL				
Within the contract document some options are given regarding discounts to which some customers may apply, but it is not clear how traceability to the following information can be done. **PARÁGRAFO TERCERO**: En el evento en que el CLIENTE haya presentado al comprador de los BONOS DE CARBONO a CO2CERO, este último descontará de su ingreso por comercialización, el tres por ciento (3%) del porcentaje que le corresponda y lo entregará a favor de EL CLIENTE. En todo caso la propuesta económica presentada por el cliente deberá ser igual o superior a la oferta de CO2CERO.				
Project Developer's Response				***Date:*** *17-02-2023*
From the commercial side of CO2CERO S.A.S., they have the possibility of signing an intermediation agreement between the parties, given in the scenario in which once the participant generates contact and/or negotiation with a buyer of carbon credits and this is attractive for sale, exceeding the appraised purchase value by the buyers of CO2CERO S.A.S. Such action will be taken, and this will be presented in the Carbon Credit Inventory Report document.				
Documentation submitted by the project developer				
Evaluation of the audit team				***Date:*** *27-02-2023*
The developer has clarified the request. *CL Closed*				

FAR No.	*01*	***Requirement No.***	*RENARE*	***Date:*** *24-04-2023*
Description of the SAF				

Due to the inactivity of the RENARE platform and the compliance that must be given to Resolution 1447, it is necessary for the project to be in constant review of it to register the initiative and comply with what is provided therein at the time that is necessary. *This information will be reviewed during the next verification period.*

Project Developer's Response	***Date:*** *XX-XX-XXXX*
Documentation submitted by the project developer	
Evaluation of the audit team	***Date:*** *XX-XX-XXXX*

Opportunity for improvement:

- *It is necessary that the fulfillment of the SDGs be taken into account for the 9 participants of the project, since the evidence indicates that of the 9, one is the one that complies with the majority if not in its entirety, so the trainings should be aimed at all the staff or share all the information with the participants, In order for them to be aware of it, it is also necessary to request the corresponding information from the workers so that it can be included within the respective tools and be part of the progress of the same and the fulfillment of the SDGs.*
- *With the on-site visits and the findings that are raised in the field, there is a tendency to continuous improvement for the monitoring process and in this way minimize errors in the field and comply with the chosen methodologies, which is why it is necessary to attend to the comments of the audit team during and after the audits and follow as far as possible the methodologies chosen for the performance of the different processes.*
- *There is a need to work with all project participants to meet the SDGs of the project, as the project must comply in its entirety.*

11.3 Annex 3. Audit plan.

<table>
<tr><td>GHG Mitigation Project Initiative Title</td><td colspan="4">Proyecto Forestal Alcaraván Orinoquía</td></tr>
<tr><td>Full name and job title of the project manager</td><td colspan="4">Juan Sebastián Cotrino
Position: Carbon Project Coordinator</td></tr>
<tr><td>Email</td><td>Sebastian.cotrino@CO2CERO.co</td><td>Cell Phone</td><td colspan="2">+601 6047279
3107739073</td></tr>
<tr><td>Address, including the Country.</td><td colspan="4">Cra. 45ª #104 B 16. Bogota (Colombia)</td></tr>
<tr><td>Details and job title of the contact person</td><td colspan="4">Andres Felipe Silva
Position: Carbon Project Specialist
Andres.silva@CO2CERO.co</td></tr>
<tr><td rowspan="2">Type of audit</td><td>Validation</td><td>X</td><td>Verification</td><td>X</td></tr>
<tr><td>Fully remote</td><td></td><td>Partially remote</td><td>X</td></tr>
<tr><td colspan="5">With cordial greetings, I am writing to you to submit the proposal for the audit plan to be carried out on the GHG mitigation project presented by your organization. Also, for the opening and closing meeting of the audit, I would like to thank you for inviting the relevant people from the areas that will be audited.

For the daily balance of information of the audit team, I thank you for having an agenda and a physical or remote space to hold the meeting, as well as access to the basic documentation of the GHG mitigation initiative.

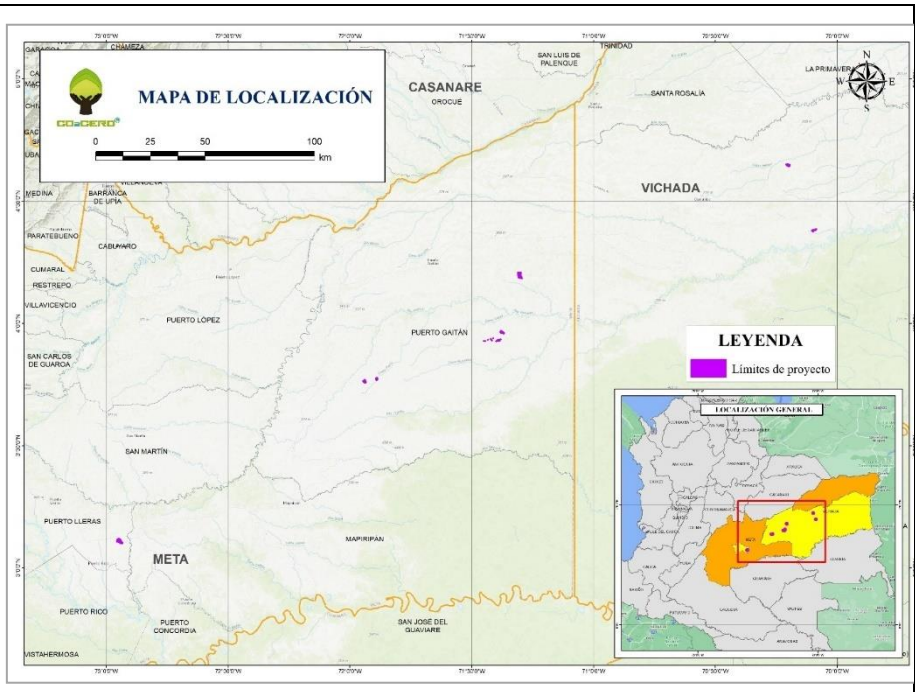
Regarding the occupational health and safety conditions applicable to your organization, please inform them before making the on-site visit so that the audit team can request the necessary personal protection elements from ICONTEC.

The information that becomes known from the execution of this audit will be treated confidentially by the audit team and Icontec. The language of the audit and its report will be in Spanish.

The conditions of this service are indicated in R-PS-012 REGULATIONS FOR VALIDATION AND VERIFICATION SERVICES.</td></tr>
<tr><td>Audit Criteria</td><td colspan="4">- ISO 14064-2:2019 (en). Greenhouse Gases – Specification with project-level guidance for quantifying, monitoring and reporting emission reductions or increases in GHG removals, or updating it</td></tr>
</table>

	- BCR Standard. From differentiated responsibility to common responsibility. Version 3.2. September 23, 2023 - METHODOLOGICAL DOCUMENT. AFOLU SECTOR. BCR0001 Quantification of GHG Emission Reductions. Removal activities. Version 3.0. April 13, 2022 - Ar-ACM0003 - Ar-am-tool-03-v2.1.0 - Ar-am-tool-12-v3.1 - Ar-am-tool-14-v4.2 - Ar-am-tool-16-v1.1.0 The validation and verification of the GHG mitigation project will be carried out by: - Auditing with the support of technological means, partially remote
Objectives of the audit	**For validation:** Assess the likelihood that the implementation of the planned GHG project will result in the GHG removals/reductions declared by the project owner, considering the following: • Compliance with applicable validation criteria, including the principles and requirements of relevant GHG standards or programs within the scope of validation. • The establishment, justification and documentation of the GHG mitigation project. • The relevance of the planned GHG project controls. **For verification:** Verify compliance in the implementation of mitigation project activities, including those associated with the methodology selected for the project, considering the following: • Compliance with applicable verification criteria, including the principles and requirements of relevant GHG standards or programs within the scope of verification.

	• Information and documentation of GHG project planning, including procedures and criteria for the project, baseline, quality control and assurance, risk management, and GHG verification documents. • The emissions, removals, emission reductions, and removal increases that are reported in the GHG baseline and project. • Any significant changes in emissions, removals, emission reductions, and increases in GHG removals since the last reporting period, or since project validation, • Compliance with the actual principles and controls of the project and the monitoring, verification and reporting system necessary to comply with its documented procedures and current legislation in accordance with the audit criteria.
Scope of the audit	• Project boundaries including its scenarios and baseline scenarios: It is a project whose objective is the removal of GHGs through 8,000 eligible hectares of forest plantations in the Colombian Orinoquia, for 20 years, and the support of 8 participants for the validation and first verification of the project, who have areas for the establishment, maintenance and strengthening of forest plantation covers through the commercialization of wood. It projects the removal of 529,042 tCO2e for the entire credit period and 26,452 tCO2e per year. For the first verification, there is a removal of 33,164 tCO2e with a 20% discount corresponding to 4,974.6 tCO2e. Itis located in the east of the country in the departments of Meta and Vichada, in a total of three (3) municipalities that correspond to Puerto Lleras and Puerto Gaitán in Meta and Cumaribo in Vichada:



Taken from the developer's document.

With the establishment of 3 species which are *Acacia mangium, Eucalyptus pellita and Pinus caribaea,* in the establishment of 139 plots in the field. The plots were established according to the parameters established with the sample design section of the BCR00001 V3.0 methodology. The average sampling error calculated for the plots was 8.65 % with a 95% confidence level. The size of the plots was 400 m2, except for the participant Punta de Garzas Inversiones Forestales with 420 m2, for this verification.

- GHG sources, sinks and/or reservoirs

Reservoirs considered for the project

Reservoir	Scenario of Baseline	Scenario of project	Justification
Aboveground Biomass (BA)	Yes	Yes	It is the main sink as it represents the increase in the carbon stock in the forest cover of the project area. It covers both tree and non-tree biomass. For the Baseline scenario, the AR-TOOL14 tool specifies that according

			to the carbon content can be counted as zero, if the conditions described in numeral 5 are met.
Groundwater Biomass (BS)	Yes	Yes	The sinkhole is included as it is the second most important reservoir, and is expected to increase as a result of the project. For the Baseline scenario, the AR-TOOL14 tool specifies that according to the carbon content can be counted as zero, if the conditions described in numeral 5 are met.
Dead Wood (MM)	Yes	Yes	This carbon reservoir is expected to increase, due to the execution of the project activities. In the baseline scenario, the carbon in these reservoirs is equivalent to a proportion of the aboveground biomass. Therefore, for the project, it is counted as zero.
Hojarasca (HJ)	Yes	Yes	This carbon reservoir is expected to increase, due to the execution of the project activities. In the baseline scenario, the carbon in these reservoirs is equivalent to a proportion of the aboveground biomass. Therefore, for the project, it is counted as zero.
Soil Organic Carbon (SOC)	Yes	Yes	It is expected that throughout the life of the project the content will increase due to the permanent presence of tree cover

Emission Sources

Source	Baseline Scenario			Project Scenario		
	CO2	CH4	N2O	CO2	CH4	N2O
Combustion of woody biomass	No	Yes	Yes	Yes	Yes	Yes

- Defined time periods to execute the project activity:

20 years ranging from 11-04-2018 to 10-04-2037 for validation

11-04-2018 to 2-12-2022 for verification.

Level of Assurance	Resolution 1447 of 2018 – 95%	**Materiality - Materiality**	Resolution 1447 of 2018 – 5%

Sampling Plan / Evidence Collection Plan

Information and documentation of GHG mitigation project planning, including procedures and criteria for the project, baseline, quality control and assurance, risk management, and verification documents, are listed in the following table:

Parameters	Sampling (%)	Assurance Level (100%)
Methodologies and tools used for the calculation of removals	100	100
Formulas for Calculating Removals	100	100
Review of the plots	20	0.5 % 14 plots

Stratum	Options	Quantity
2018 Eucalyptus pellita	Plot 40 of LUIS FERNANDO RODRIGUEZ Eucalyptus pellita Aug 2018	3
	Plot 30 of ENLACE ROJO SAS Eucalyptus pellita de 2018	
	Plot 10 of ENLACE ROJO SAS Eucalyptus pellita Aug 2018	
	Plot 9 of ENLACE ROJO SAS Eucalyptus pellita de 2018	
Pinus caribaea de 2018	Plot 74 of CLAUDIA HUERFANO Pinus caribaea Aug 2018	2
	Plot 71 of CLAUDIA HUERFANO Pinus caribaea Aug 2018	
	Plot 6 of PUNTA DE GARZA FOREST INVESTMENTS Pinus caribaea Aug 2018	
	Plot 13 of PUNTA DE GARZA FOREST INVESTMENTS Pinus caribaea Aug 2018	

	Acacia mangium de 2020	2020 ECOLOGIC SAS Acacia Mangium Installment 232	2	X
		ECOLOGIC SAS Acacia mangium Installment 239 2020		X
	Acacia mangium de 2021	Plot 22 of ECOSISTEMA PRODUCTIVO MATAEMONTE SAS Acacia mangium Aug 2021	3	
		Plot 23 of PRODUCTIVE ECOSYSTEM MATAEMONTE SAS Acacia mangium Aug 2021		
		Plot 18 of ECOSISTEMA PRODUCTIVO MATAEMONTE SAS Acacia mangium Aug 2021		
		Plot 12 of PRODUCTIVE ECOSYSTEM MATAEMONTE SAS Acacia mangium Aug 2021		X
		2021 SULTANA SAS Acacia mangium Installment 240		X
		2021 SULTANA SAS Acacia mangium Plot 239		X
		2021 SULTANA SAS Acacia mangium Installment 241		
	2019 Eucalyptus pellita	Plot 25 of ENLACE ROJO SAS Eucalyptus pellita de 2019	2	X
		Plot 23 of ENLACE ROJO SAS Eucalyptus pellita de 2019		X
	2020 Eucalyptus pellita	Plot 6 of ENLACE ROJO SAS Eucalyptus pellita de 2020	2	X
		Plot 11 of ENLACE ROJO SAS Eucalyptus pellita de 2020		X
	For this verification, only 14 plots will be visited.			

Name of Lead Auditor	Laura María García Murillo - LG	**Email**	lmgarciam@icontec.org
Auditor		**Technical Expert**	
Opening meeting	13-01-2023	**Hour**	4:00 pm
Closing Meeting	24-01-2023	**Hour**	4:00 pm

Date on which the audit plan was completed	13-01-2023

ON-SITE ACTIVITY PLAN

DATE	HOUR	REQUIREMENT TO BE AUDITED	AUDITOR	NAME & TITLE OF THE AUDITEE
16-01-2023	07:00am to 06:00pm	Bogota Trip - Project View of plots 9, 10 and 30 of ENLACE ROJO SAS of Eucalyptus 2018	LG	Samuel Medrano- Manager Carlos Cifuentes – Driver Andres Felipe Silva- Carbon Project Specialist
17-01-2023	07:00am to 06:00pm	Puerto rico- Meta Visit of plots 23 and 25 of ENLACE ROJO SAS Eucalyptus 2019 Visit of plots 6 and 11 of ENLACE ROJO SAS Eucalyptus 2020	LG	Samuel Medrano- Manager Carlos Cifuentes – Driver Andres Felipe Silva- Carbon Project Specialist
18-01-2023	07:00am to 06:00pm	Puerto Gaitán- Meta Visit of plot 40 by Luis Fernando Rodriguez of Eucalyptus 2018 Plot 71 and 74 of Claudia Huérfano de Pino 2018	LG	Carlos Cifuentes – Driver Andres Felipe Silva- Carbon Project Specialist
19-01-2023	07:00am to 06:00pm	Galapagos Visit plot 232 and 239 of Ecologic de Acacia 2020 Visit of plot 239 and 240 of Sultana SAS de Acacia of 2021	LG	Wilson Avila- Forestry Coordinator Carlos Cifuentes – Driver Andres Felipe Silva- Carbon Project Specialist
20-01-2023	07:00am to 06:00pm	Galapagos Visit plot 12 of Acacia Ecosistema Productivo Mataemonte 2021	LG	Carlos Cifuentes – Driver Andres Felipe Silva- Carbon Project Specialist

24 -01-2023	3:30 pm	Meeting on Counter-Current Issues	LG	Andres Felipe Silva-Carbon Project Specialist

Remarks:

- During the interviews, the audit team will review the documentation referenced in the project description and/or in the monitoring report.
- This business plan is flexible and can be modified in agreement with the project owner.
- All project owner personnel related to the GHG mitigation initiative must be available if requested by the audit team for the purpose of assessing any requirements
- During any phase of this evaluation process (document review, prior to the site visit, site visit, drafting of the audit report or technical review) findings may be declared, which must be resolved before the relevant documentation (project description, monitoring report, spreadsheets, audit reports, among others) is sent to the GHG program.
- The schedule of Validation/Verification activities is described in document F-GV-086 NOTIFICATION OF SERVICES VALIDATION AND VERIFICATION

11.4 Annex 4. Sampled plots.

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
10	1	ENLACE ROJO SAS	Barlovento	16,5	16,2	20,50	19,10	
10	2	ENLACE ROJO SAS	Barlovento	2,1	2,5		4,20	Smaller DAP
10	3	ENLACE ROJO SAS	Barlovento	11,8	11,6			
10	4	ENLACE ROJO SAS	Barlovento	9,0	9,0	14,20	12,20	
10	5	ENLACE ROJO SAS	Barlovento	10,0	10,0			
10	6	ENLACE ROJO SAS	Barlovento	7,0	7,0			
10	7	ENLACE ROJO SAS	Barlovento	11,8	11.7 / 11.5			The IND is in a knot
10	8	ENLACE ROJO SAS	Barlovento	4,9	5,0	10,00	7,50	
10	9	ENLACE ROJO SAS	Barlovento	7,8	7,8			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
10	10	ENLACE ROJO SAS	Barlovento	14,9	14,9			
10	11	ENLACE ROJO SAS	Barlovento	4,6	4,6			
10	12	ENLACE ROJO SAS	Barlovento	18,3	18,5	18,30	17,80	Larger DAP
10	13	ENLACE ROJO SAS	Barlovento	16,0	16,1			
10	14	ENLACE ROJO SAS	Barlovento	9,8	10,0			
10	15	ENLACE ROJO SAS	Barlovento	6,4	6,4			
10	16	ENLACE ROJO SAS	Barlovento	12,9	13,1	15,70	13,30	
10	17	ENLACE ROJO SAS	Barlovento	4,8	4,9			
10	18	ENLACE ROJO SAS	Barlovento	8,4	8,4			
10	19	ENLACE ROJO SAS	Barlovento	6,0	6,0			
10	20	ENLACE ROJO SAS	Barlovento	14,5	14,6	16,10	17,00	
10	21	ENLACE ROJO SAS	Barlovento	17,0	16.7 / 17.1			The IND is in a knot
10	22	ENLACE ROJO SAS	Barlovento	15,4	15,6			
10	23	ENLACE ROJO SAS	Barlovento	15,2	15,3			
10	24	ENLACE ROJO SAS	Barlovento	6,8	6,7	10,40	9,90	
10	25	ENLACE ROJO SAS	Barlovento	6,9	7,0			
10	26	ENLACE ROJO SAS	Barlovento	14,9	14,7			
10	27	ENLACE ROJO SAS	Barlovento	6,1	6,0			
10	28	ENLACE ROJO SAS	Barlovento	14,8	14,2	18,30	17,00	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
10	29	ENLACE ROJO SAS	Barlovento	14,6	14,6			
10	30	ENLACE ROJO SAS	Barlovento	11,7	11,7			
10	31	ENLACE ROJO SAS	Barlovento	9,2	9,1			
10	32	ENLACE ROJO SAS	Barlovento	7,1	7,3	11,60	9,90	
10	33	ENLACE ROJO SAS	Barlovento	12,6	12,8			
10	35	ENLACE ROJO SAS	Barlovento	4,8	4,8			
10	36	ENLACE ROJO SAS	Barlovento	11,0	11,0	16,20	14,00	
10	37	ENLACE ROJO SAS	Barlovento	8,8	8,8			
10	38	ENLACE ROJO SAS	Barlovento	6,5	6,5			
10	39	ENLACE ROJO SAS	Barlovento	11,7	11,7			
10	40	ENLACE ROJO SAS	Barlovento	18,0	18,3	18,30	16,90	
10	41	ENLACE ROJO SAS	Barlovento	16,9	16,6			
10	42	ENLACE ROJO SAS	Barlovento	11,1	11,3			
10	34.1	ENLACE ROJO SAS	Barlovento	6,8	6,2			
10	34.2	ENLACE ROJO SAS	Barlovento	6,7	6,8			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
9	1	ENLACE ROJO SAS	Barlovento	5,8	5,8	8,10	7,40	The whole plot has the DAP wrong below 5 cm
9	2	ENLACE ROJO SAS	Barlovento	11,1	10,7			There is no evidence of marking from the center point
9	3	ENLACE ROJO SAS	Barlovento	5,9	5,7			
9	4	ENLACE ROJO SAS	Barlovento	7,5	8,0	11,90	12,10	
9	5	ENLACE ROJO SAS	Barlovento	12,4	12,1			
9	6	ENLACE ROJO SAS	Barlovento	7,2	6,8			
9	7	ENLACE ROJO SAS	Barlovento	10,9	10,7			
9	8	ENLACE ROJO SAS	Barlovento	13,6	13,7	13,90	14,20	
9	9	ENLACE ROJO SAS	Barlovento	8,5	8,2			
9	10	ENLACE ROJO SAS	Barlovento	13,8	13,6			
9	11	ENLACE ROJO SAS	Barlovento	17,2	16,4			
9	12	ENLACE ROJO SAS	Barlovento	17,5	17,6	14,10	13,80	
9	13	ENLACE ROJO SAS	Barlovento	17,8	15,6			
9	14	ENLACE ROJO SAS	Barlovento	5,3	4,7			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
9	15	ENLACE ROJO SAS	Barlovento	9,6	9,8			
9	16	ENLACE ROJO SAS	Barlovento	8,9	9,0	10,90	13,60	
9	17	ENLACE ROJO SAS	Barlovento	11,8	11,4			
9	18	ENLACE ROJO SAS	Barlovento	8,3	8,3			
9	19	ENLACE ROJO SAS	Barlovento	13,0	13,0			
9	20	ENLACE ROJO SAS	Barlovento	12,9	13,1	16,00	15,60	
9	21	ENLACE ROJO SAS	Barlovento	6,3	6,1			
9	22	ENLACE ROJO SAS	Barlovento	7,7	7,6			
9	23	ENLACE ROJO SAS	Barlovento	6,4	6,0			
9	24	ENLACE ROJO SAS	Barlovento	15,7	16. 2	15,70	16,10	
9	25	ENLACE ROJO SAS	Barlovento	10,8	10,5			
9	26	ENLACE ROJO SAS	Barlovento	17,0	17,0			
9	27	ENLACE ROJO SAS	Barlovento	17,1	16,2			
9	28	ENLACE ROJO SAS	Barlovento	11,3	11,4	8,80	13,10	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
9	29	ENLACE ROJO SAS	Barlovento	4,2	4,0			
9	30	ENLACE ROJO SAS	Barlovento	12,8	13,0			
9	31	ENLACE ROJO SAS	Barlovento	11,7	11,7			
9	32	ENLACE ROJO SAS	Barlovento	18,2	18,2	17,50	16,20	
9	33	ENLACE ROJO SAS	Barlovento	12,9	12,7			
9	34	ENLACE ROJO SAS	Barlovento	2,2	2,7	3,80	3,50	
9	35	ENLACE ROJO SAS	Barlovento	9,1	9,0			
9	36	ENLACE ROJO SAS	Barlovento	5,0	5,0	4,80	5,80	
9	37	ENLACE ROJO SAS	Barlovento	15,7	16,0			
9	38	ENLACE ROJO SAS	Barlovento	7,6	7,5			
9	39	ENLACE ROJO SAS	Barlovento	12,5	12,4			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
25	25	ENLACE ROJO SAS	Barlovento	2,4	2,2			
25	26	ENLACE ROJO SAS	Barlovento	6,4	6,5			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
25	27	ENLACE ROJO SAS	Barlovento	5,5	5,4			
25	28	ENLACE ROJO SAS	Barlovento	5,1	5,0	6,60	5,10	
25	29	ENLACE ROJO SAS	Barlovento	3,6	3,9			
25	30	ENLACE ROJO SAS	Barlovento	4,1	3,6			
25	31	ENLACE ROJO SAS	Barlovento	4,1	4,5			
25	32	ENLACE ROJO SAS	Barlovento	4,2	4,4	3,50	3,20	
25	33	ENLACE ROJO SAS	Barlovento	4,9	4,6			
25	34	ENLACE ROJO SAS	Barlovento	3,4	3,5			
25	35	ENLACE ROJO SAS	Barlovento	5,6	5,6			
25	36	ENLACE ROJO SAS	Barlovento	9,1	9,3	7,20	6,00	
25	37	ENLACE ROJO SAS	Barlovento	3,6	3,4			
25	38	ENLACE ROJO SAS	Barlovento	5,4	5,4			
25	39	ENLACE ROJO SAS	Barlovento	6,4	6,5			
25	40	ENLACE ROJO SAS	Barlovento	2,2	2,2	3,90	3,20	
25	41	ENLACE ROJO SAS	Barlovento	6,5	6,5			
25	42	ENLACE ROJO SAS	Barlovento	2,5	2,6			
25	43	ENLACE ROJO SAS	Barlovento	3,9	4,0			
25	1	ENLACE ROJO SAS	Barlovento	4,1	4,5	4,20	4,20	
25	10	ENLACE ROJO SAS	Barlovento	3,6	3,1			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
25	11	ENLACE ROJO SAS	Barlovento	4,2	4,2			
25	12	ENLACE ROJO SAS	Barlovento	3,7	3,6	4,70	4,40	
25	13	ENLACE ROJO SAS	Barlovento	2,9	2,8			
25	14	ENLACE ROJO SAS	Barlovento	2,9	2,8			
25	15	ENLACE ROJO SAS	Barlovento	3,8	3,7			
25	16	ENLACE ROJO SAS	Barlovento	4,1	4,1	5,80	4,10	
25	17	ENLACE ROJO SAS	Barlovento	2,9	2,9			
25	18	ENLACE ROJO SAS	Barlovento	3,3	3,3			
25	19	ENLACE ROJO SAS	Barlovento	1,6	1,4	2,20	2,20	
25	2	ENLACE ROJO SAS	Barlovento	4,0	5,9			
25	20	ENLACE ROJO SAS	Barlovento	5,5	5,5	5,30	4,80	
25	21	ENLACE ROJO SAS	Barlovento	4,7	2,7			
25	22	ENLACE ROJO SAS	Barlovento	4,3	4,2			
25	23	ENLACE ROJO SAS	Barlovento	3,5	3,6			
25	24	ENLACE ROJO SAS	Barlovento	4,2	4,4	5,20	3,80	
25	3	ENLACE ROJO SAS	Barlovento	5,0	5,5			
25	4	ENLACE ROJO SAS	Barlovento	1,9	1,5	2,50	2,20	
25	5	ENLACE ROJO SAS	Barlovento	6,6	6,5			
25	6	ENLACE ROJO SAS	Barlovento	5,6	5,4			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
25	7	ENLACE ROJO SAS	Barlovento	5,7	5,8			
25	8	ENLACE ROJO SAS	Barlovento	5,7	5,5	6,50	5,10	
25	9	ENLACE ROJO SAS	Barlovento	6,5	6,6			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
23	1	ENLACE ROJO SAS	Barlovento	4,5	4,3	3,70	3,70	All DAPs are below
23	10	ENLACE ROJO SAS	Barlovento	6,7	6,9			
23	11	ENLACE ROJO SAS	Barlovento	8,0	7,6	5,60	5,90	
23	12	ENLACE ROJO SAS	Barlovento	3,8	4,0	4,00	4,00	
23	13	ENLACE ROJO SAS	Barlovento	4,4	4,4			
23	14	ENLACE ROJO SAS	Barlovento	5,3	5,4			
23	15	ENLACE ROJO SAS	Barlovento	2,9	3,1			
23	16	ENLACE ROJO SAS	Barlovento	6,3	6,5	5,20	4,90	
23	17	ENLACE ROJO SAS	Barlovento	4,6	4,4			
23	18	ENLACE ROJO SAS	Barlovento	4,2	4.9/3		Bifurcated in the nude in sound 2 dap	DAP AVERAGE 4.5 and 3.9

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
23	19	ENLACE ROJO SAS	Barlovento	7,0	6,9			
23	2	ENLACE ROJO SAS	Barlovento	6,5	6,7			
23	20	ENLACE ROJO SAS	Barlovento	5,7	5,2	4,50	4,60	
23	21	ENLACE ROJO SAS	Barlovento	2,9	2,7			
23	22	ENLACE ROJO SAS	Barlovento	4,9	4,7			
23	23	ENLACE ROJO SAS	Barlovento	3,0	3,0			
23	24	ENLACE ROJO SAS	Barlovento	2,1	2,1	1,90	2,20	
23	25	ENLACE ROJO SAS	Barlovento	3,3	3,2			
23	26	ENLACE ROJO SAS	Barlovento	5,8	5,9			
23	27	ENLACE ROJO SAS	Barlovento	2,0	2,1	2,30	2,40	
23	28	ENLACE ROJO SAS	Barlovento	3,8	3,9	4,20	3,90	
23	29	ENLACE ROJO SAS	Barlovento	3,4	3,3			
23	3	ENLACE ROJO SAS	Barlovento	5,0	4,9			
23	30	ENLACE ROJO SAS	Barlovento	3,1	2,9			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
23	31	ENLACE ROJO SAS	Barlovento	2,5	2,8			
23	32	ENLACE ROJO SAS	Barlovento	6,4	6,2	3,90	5,00	
23	33	ENLACE ROJO SAS	Barlovento	3,9	3,8			
23	34	ENLACE ROJO SAS	Barlovento	4,2	4,5			
23	35	ENLACE ROJO SAS	Barlovento	4,7	4,7			
23	36	ENLACE ROJO SAS	Barlovento	2,4	2,4			
23	37	ENLACE ROJO SAS	Barlovento	6,2	6,4			
23	38	ENLACE ROJO SAS	Barlovento	2,6	2,5	2,50	2,80	
23	39	ENLACE ROJO SAS	Barlovento	5,1	5,2			
23	4	ENLACE ROJO SAS	Barlovento	2,8	2,8	3,40	3,10	
23	5	ENLACE ROJO SAS	Barlovento	4,1	4,0			
23	6	ENLACE ROJO SAS	Barlovento	2,8	2,8			
23	7	ENLACE ROJO SAS	Barlovento	4,8	4,7			
23	8	ENLACE ROJO SAS	Barlovento	3,4	3,3	4,60	3,90	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
23	9	ENLACE ROJO SAS	Barlovento	3,9	3,7			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
11	1	ENLACE ROJO SAS	Barlovento	1,4	1,5	2,00	1,90	
11	2	ENLACE ROJO SAS	Barlovento	2,3	2,1			
11	3	ENLACE ROJO SAS	Barlovento	2,4	2 5			
11	4	ENLACE ROJO SAS	Barlovento	3,9	4,1	3,70	3,50	
11	5	ENLACE ROJO SAS	Barlovento	5,0	5,3			
11	6	ENLACE ROJO SAS	Barlovento	1,6	1,8			
11	7	ENLACE ROJO SAS	Barlovento	4,9	5,3			
11	8	ENLACE ROJO SAS	Barlovento	3,0	3,2	3,00	3,00	
11	9	ENLACE ROJO SAS	Barlovento	2,1	2,5			
11	10	ENLACE ROJO SAS	Barlovento	3,8	4,0			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
11	11	ENLACE ROJO SAS	Barlovento	4,5	4,9			
11	12	ENLACE ROJO SAS	Barlovento	3,8	4,0	3,70	3,90	
11	13	ENLACE ROJO SAS	Barlovento	2,3	2,6			
11	14	ENLACE ROJO SAS	Barlovento	0,9	1,0			
11	15	ENLACE ROJO SAS	Barlovento	2,9	2,9			
11	16	ENLACE ROJO SAS	Barlovento	3,4	3,7	3,20	3,20	
11	17	ENLACE ROJO SAS	Barlovento	4,2	4,5			
11	18	ENLACE ROJO SAS	Barlovento	2,5	2,4			
11	19	ENLACE ROJO SAS	Barlovento	2,2	2,8			
11	20	ENLACE ROJO SAS	Barlovento	3,5	4,0	3,70	3,20	
11	21	ENLACE ROJO SAS	Barlovento	2,2	2,5			
11	22	ENLACE ROJO SAS	Barlovento	2,5	2,8			
11	23	ENLACE ROJO SAS	Barlovento	2,1	2,4			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
11	24	ENLACE ROJO SAS	Barlovento	2,0	2,3	2,60	2,00	
11	25	ENLACE ROJO SAS	Barlovento	3,3	3,7			
11	26	ENLACE ROJO SAS	Barlovento	2,3	2,7			
11	27	ENLACE ROJO SAS	Barlovento	3,1	3,7			
11	28	ENLACE ROJO SAS	Barlovento	2,6	3,0	3,10	2,50	
11	29	ENLACE ROJO SAS	Barlovento	2,6	3,0			
11	30	ENLACE ROJO SAS	Barlovento	3,0	3,3			
11	31	ENLACE ROJO SAS	Barlovento	4,5	5,0			
11	32	ENLACE ROJO SAS	Barlovento	3,8	4,5	3,70	3,70	
11	33	ENLACE ROJO SAS	Barlovento	5,2	5,6	4,50	4,50	Larger DAP

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
6	1	ENLACE ROJO SAS	Barlovento	1,5	1,7	2,70	2,10	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
6	2	ENLACE ROJO SAS	Barlovento	3,5	3,5			DAP Below Measurement
6	3	ENLACE ROJO SAS	Barlovento	3,2	3,8			
6	4	ENLACE ROJO SAS	Barlovento	5,2	5,3	3,20	4,60	
6	5	ENLACE ROJO SAS	Barlovento	1,9	1,9			
6	6	ENLACE ROJO SAS	Barlovento	2,5	2,8			
6	20	ENLACE ROJO SAS	Barlovento	4,2	4 4	4,40	4,20	
6	21	ENLACE ROJO SAS	Barlovento	1,9	1,8			
6	22	ENLACE ROJO SAS	Barlovento	4,2	4,2			
6	23	ENLACE ROJO SAS	Barlovento	4,3	4,5			
6	24	ENLACE ROJO SAS	Barlovento	5,0	5,2	4,50	4,20	
6	25	ENLACE ROJO SAS	Barlovento	2,6	2,8			
6	26	ENLACE ROJO SAS	Barlovento	3,1	3,3			
6	27	ENLACE ROJO SAS	Barlovento	2,6	2,6			
6	28	ENLACE ROJO SAS	Barlovento	2,9	3,0	4,20	3,60	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
6	29	ENLACE ROJO SAS	Barlovento	2,1	2,0			
6	30	ENLACE ROJO SAS	Barlovento	3,8	4,0			
6	31	ENLACE ROJO SAS	Barlovento	4,9	5,0			
6	32	ENLACE ROJO SAS	Barlovento	4,0	4,0	4 4	4,10	
6	33	ENLACE ROJO SAS	Barlovento	3,6	4,0			
6	34	ENLACE ROJO SAS	Barlovento	5,1	5,5			
6	35	ENLACE ROJO SAS	Barlovento	4,6	5,0			
6	36	ENLACE ROJO SAS	Barlovento	5,2	5,1	6,00	5,80	
6	37	ENLACE ROJO SAS	Barlovento	3,4	3,3			
6	38	ENLACE ROJO SAS	Barlovento	5,4	5,5			
6	39	ENLACE ROJO SAS	Barlovento	3,1	3,3			
6	10	ENLACE ROJO SAS	Barlovento	4,8	5,1			
6	11	ENLACE ROJO SAS	Barlovento	2,7	2,5			DAP Below Measurement
6	12	ENLACE ROJO SAS	Barlovento	3,1	2,4	3,10	2,70	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
6	13	ENLACE ROJO SAS	Barlovento	1,8	1,5			
6	14	ENLACE ROJO SAS	Barlovento	2,7	2,6			DAP Below Measurement
6	15	ENLACE ROJO SAS	Barlovento	3,3	3,7			
6	16	ENLACE ROJO SAS	Barlovento	6,0	6,4	5,20	4,50	DAP Below Measurement
6	17	ENLACE ROJO SAS	Barlovento	2,7	2,7			
6	18	ENLACE ROJO SAS	Barlovento	4,3	4,5			
6	19	ENLACE ROJO SAS	Barlovento	3,2	3,3			
6	7	ENLACE ROJO SAS	Barlovento	1,9	1,9			
6	8	ENLACE ROJO SAS	Barlovento	3,6	3 5	4,00	3,80	
6	9	ENLACE ROJO SAS	Barlovento	4,6	4,9			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
40	1	LUIS FERNANDO RODRIGUEZ	Naranjales	6,5	6,5	6,50	6,30	
40	2	LUIS FERNANDO RODRIGUEZ	Naranjales	8,6	9,1			DAP Below

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
40	3	LUIS FERNANDO RODRIGUEZ	Naranjales	7,1	7,3			
40	4	LUIS FERNANDO RODRIGUEZ	Naranjales	7,5	7,7		5,10	
40	5	LUIS FERNANDO RODRIGUEZ	Naranjales	6,4	6,6	6,60		
40	6	LUIS FERNANDO RODRIGUEZ	Naranjales	6,1	6,4			
40	7	LUIS FERNANDO RODRIGUEZ	Naranjales	7,9	7,9			
40	8	LUIS FERNANDO RODRIGUEZ	Naranjales	6,9	6,8	6,30	5,60	
40	9	LUIS FERNANDO RODRIGUEZ	Naranjales	6,9	7,4			
40	10	LUIS FERNANDO RODRIGUEZ	Naranjales	11,2	11,8	9,10	9,10	
40	11	LUIS FERNANDO RODRIGUEZ	Naranjales	6,3	6,7			
40	12	LUIS FERNANDO RODRIGUEZ	Naranjales	6,6	6.2 / 6.5	5,90	4,70	Tree with dap in knot
40	13	LUIS FERNANDO RODRIGUEZ	Naranjales	5,6	5,8			
40	14	LUIS FERNANDO RODRIGUEZ	Naranjales	9,7	10,0			
40	15	LUIS FERNANDO RODRIGUEZ	Naranjales	7,1	7,6			
40	16	LUIS FERNANDO RODRIGUEZ	Naranjales	5,6	6,5	4,50	3,20	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
40	17	LUIS FERNANDO RODRIGUEZ	Naranjales	6,2	5,7			
40	18	LUIS FERNANDO RODRIGUEZ	Naranjales	6,8	7,2			
40	19	LUIS FERNANDO RODRIGUEZ	Naranjales	6,3	6,5			
40	20	LUIS FERNANDO RODRIGUEZ	Naranjales	6,8	7,1	5,30	4,90	
40	21	LUIS FERNANDO RODRIGUEZ	Naranjales	5,4	5,6			
40	22	LUIS FERNANDO RODRIGUEZ	Naranjales	7,6	8,0			
40	23	LUIS FERNANDO RODRIGUEZ	Naranjales	9,4	9,8			
40	24	LUIS FERNANDO RODRIGUEZ	Naranjales	6,9	6,6	5,10	3,80	
40	25	LUIS FERNANDO RODRIGUEZ	Naranjales	4,5	4,5	5,00	3,80	
40	26	LUIS FERNANDO RODRIGUEZ	Naranjales	4,6	4,7			
40	27	LUIS FERNANDO RODRIGUEZ	Naranjales	5,7	6,4			
40	28	LUIS FERNANDO RODRIGUEZ	Naranjales	6,2	6,2	6,30	3,70	
40	29	LUIS FERNANDO RODRIGUEZ	Naranjales	5,6	5,7			
40	30	LUIS FERNANDO RODRIGUEZ	Naranjales	8,5	8,8			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
40	31	LUIS FERNANDO RODRIGUEZ	Naranjales	7,5	8,0			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
71	1	CLAUDIA HUERFANO	Villa Claudia	3,5	4,2	2,60	2,00	The plot left out 2 ind
71	2	CLAUDIA HUERFANO	Villa Claudia	1,0	1,3			The marking of the IND. It's wrong because the furrows weren't followed
71	3	CLAUDIA HUERFANO	Villa Claudia	3,2	3,7			
71	4	CLAUDIA HUERFANO	Villa Claudia	2,5	3,1	2,40	1,80	
71	5	CLAUDIA HUERFANO	Villa Claudia	1,0	2,1			It has no dialing
71	6	CLAUDIA HUERFANO	Villa Claudia	2,3	3,1			
71	7	CLAUDIA HUERFANO	Villa Claudia	5,2	5,1			
71	8	CLAUDIA HUERFANO	Villa Claudia	3,1	3,6	2,20	1,70	
71	9	CLAUDIA HUERFANO	Villa Claudia	3,3	4,0			
71	10	CLAUDIA HUERFANO	Villa Claudia	3,3	3,6			
71	11	CLAUDIA HUERFANO	Villa Claudia	3,3	3,7			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
71	12	CLAUDIA HUERFANO	Villa Claudia	2,9	3,5	2,40	1,80	
71	13	CLAUDIA HUERFANO	Villa Claudia	3,0	3,5			
71	14	CLAUDIA HUERFANO	Villa Claudia	2,2	2,7			
71	15	CLAUDIA HUERFANO	Villa Claudia	1,0				
71	16				1,0	1,40		new
71	17				2,0			New
71	18				2,0			New

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
74	1	CLAUDIA HUERFANO	Villa Claudia	1,5	1,0	1,70	1,32	2IND new to the plot that were not taken into account
74	2	CLAUDIA HUERFANO	Villa Claudia	4,5	5,0			The plot is wrongly numbered, there are no furrows
74	3	CLAUDIA HUERFANO	Villa Claudia	5,2	5 3			
74	4	CLAUDIA HUERFANO	Villa Claudia	3,4	4,1	2,30	2,00	
74	5	CLAUDIA HUERFANO	Villa Claudia	2,0	2,5			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
74	6	CLAUDIA HUERFANO	Villa Claudia	2,5	3,2			
74	7	CLAUDIA HUERFANO	Villa Claudia	4,6	5,1			
74	8	CLAUDIA HUERFANO	Villa Claudia	3,5	3,9	2,60	2,30	
74	9	CLAUDIA HUERFANO	Villa Claudia	4,0	4,3			
74	10	CLAUDIA HUERFANO	Villa Claudia	3,7	4,5			
74	11	CLAUDIA HUERFANO	Villa Claudia	4,0	4,6			
74	12	CLAUDIA HUERFANO	Villa Claudia	3,3	3,9	2,40	2,10	
74	13	CLAUDIA HUERFANO	Villa Claudia	2,8	3,4			
74	14	CLAUDIA HUERFANO	Villa Claudia	2,0	2,5			
74	15	CLAUDIA HUERFANO	Villa Claudia	3,5	4,0			
74	16	CLAUDIA HUERFANO	Villa Claudia	1,4	1,8	1,80	1,60	
74	17				1,2			new
74	18				3,6			new

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
232	1	ECOLOGIC SAS	Galapagos	9,5	9,7	9,60	7,80	
232	2	ECOLOGIC SAS	Galapagos	11,1	11,7	10,90	9,50	
232	3	ECOLOGIC SAS	Galapagos	9,4	9,7			
232	4	ECOLOGIC SAS	Galapagos	8,9	9,2	9,50	8,60	
232	5	ECOLOGIC SAS	Galapagos	8,5	9,0			
232	6	ECOLOGIC SAS	Galapagos	7,8	8,1			
232	7	ECOLOGIC SAS	Galapagos	10,4	11,0			DAP Above the Dial
232	8	ECOLOGIC SAS	Galapagos	5,9	6,0	7,50	6,30	
232	9	ECOLOGIC SAS	Galapagos	8,6	9,1			
232	10	ECOLOGIC SAS	Galapagos	9,5	9,6			
232	11	ECOLOGIC SAS	Galapagos	8,9	9,4			
232	12	ECOLOGIC SAS	Galapagos	9,8	10,4	9,80	8,30	
232	13	ECOLOGIC SAS	Galapagos	8,9	9,3			
232	14	ECOLOGIC SAS	Galapagos	11,0	11,1			
232	15	ECOLOGIC SAS	Galapagos	6,8	7,0			
232	23	ECOLOGIC SAS	Galapagos	9,9	10,4			
232	24	ECOLOGIC SAS	Galapagos	9,2	9,5	10,40	9,20	
232	25	ECOLOGIC SAS	Galapagos	8,4	8,4			
232	26	ECOLOGIC SAS	Galapagos	9,6	9,9			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
232	27	ECOLOGIC SAS	Galapagos	9,6	9,9			
232	28	ECOLOGIC SAS	Galapagos	8,9	9,9	8,90	7,50	
232	29	ECOLOGIC SAS	Galapagos	9,8	9,4			
232	30	ECOLOGIC SAS	Galapagos	8,9	9,2			
232	31	ECOLOGIC SAS	Galapagos	7,3	9,3			
232	32	ECOLOGIC SAS	Galapagos	8,9	9,0	10,50	9,20	
232	33	ECOLOGIC SAS	Galapagos	6,9	6,9			
232	34	ECOLOGIC SAS	Galapagos	9,8	10,2			
232	35	ECOLOGIC SAS	Galapagos	8,4	8,5			
232	36	ECOLOGIC SAS	Galapagos	8,4	8,4	9,70	8,30	
232	37	ECOLOGIC SAS	Galapagos	11,1	11,5			
232	38	ECOLOGIC SAS	Galapagos	8,6	8,8			
232	39	ECOLOGIC SAS	Galapagos	10,3	10,6			
232	40	ECOLOGIC SAS	Galapagos	7,5	7,8	9,20	7,80	
232	41	ECOLOGIC SAS	Galapagos	8,5	9,0			
232	42	ECOLOGIC SAS	Galapagos	10,0	8,5			
232	43	ECOLOGIC SAS	Galapagos	8,2	10,3			
232	16	ECOLOGIC SAS	Galapagos	8,1	8,2	9,20	8,00	
232	17	ECOLOGIC SAS	Galapagos	9,5	9,7			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
232	18	ECOLOGIC SAS	Galapagos	10,0	10,4			
232	19	ECOLOGIC SAS	Galapagos	10,6	11,0			
232	20	ECOLOGIC SAS	Galapagos	8,6	8,9	11,30	8,40	
232	21	ECOLOGIC SAS	Galapagos	7,9	8,1			
232	22	ECOLOGIC SAS	Galapagos	7,1	7,3			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
239	1	ECOLOGIC SAS	Galapagos	6,2	6,7	7,60	6,60	
239	10	ECOLOGIC SAS	Galapagos	7,4	8,0			
239	11	ECOLOGIC SAS	Galapagos	7,3	7,9			
239	12	ECOLOGIC SAS	Galapagos	5,3	6,0	5,80	6,20	
239	13	ECOLOGIC SAS	Galapagos	6,1	7,1			
239	14	ECOLOGIC SAS	Galapagos	5,8	6,5			
239	15	ECOLOGIC SAS	Galapagos	4,8	5,5			
239	16	ECOLOGIC SAS	Galapagos	6,4	7,1	7,30	7,40	
239	17	ECOLOGIC SAS	Galapagos	6,7	7,4			
239	18	ECOLOGIC SAS	Galapagos	6,8	7,1			
239	19	ECOLOGIC SAS	Galapagos	6,7	8,7			
239	2	ECOLOGIC SAS	Galapagos	6,4	7,0			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
239	20	ECOLOGIC SAS	Galapagos	6,6	7,2	5,10	7,40	
239	21	ECOLOGIC SAS	Galapagos	7,7	8,0			
239	22	ECOLOGIC SAS	Galapagos	7,7	7,6			
239	23	ECOLOGIC SAS	Galapagos	7,6	8,0			
239	24	ECOLOGIC SAS	Galapagos	8,4	9,0	4,70	8,10	Reciente Route Cup
239	25	ECOLOGIC SAS	Galapagos	6,5	6,7			
239	26	ECOLOGIC SAS	Galapagos	7,5	8,0			
239	27	ECOLOGIC SAS	Galapagos	7,0	7,1			
239	28	ECOLOGIC SAS	Galapagos	6,8	5,9	5,20	5,70	
239	29	ECOLOGIC SAS	Galapagos	6,7	7,4			
239	3	ECOLOGIC SAS	Galapagos	7,8	8,3			
239	30	ECOLOGIC SAS	Galapagos	5,2	5,6			
239	31	ECOLOGIC SAS	Galapagos	5,9	6,2			
239	32	ECOLOGIC SAS	Galapagos	5,8	6,1	4,90	6,40	
239	33	ECOLOGIC SAS	Galapagos	6,4	7,3			
239	34	ECOLOGIC SAS	Galapagos	5,4	4,8			
239	35	ECOLOGIC SAS	Galapagos	4,4	5 6			
239	36	ECOLOGIC SAS	Galapagos	7,3	7,8	5,60	7,30	
239	37	ECOLOGIC SAS	Galapagos	4,1	4,3	4,40	5,10	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
239	38	ECOLOGIC SAS	Galapagos	4,2	4,9			
239	39	ECOLOGIC SAS	Galapagos	6,5	7,4			
239	4	ECOLOGIC SAS	Galapagos	6,4	6,9	5,70	6,50	
239	40	ECOLOGIC SAS	Galapagos	5,8	6,5	5,70	5,50	
239	41	ECOLOGIC SAS	Galapagos	6,0	6,5			
239	42	ECOLOGIC SAS	Galapagos	5,1	6,0			
239	43	ECOLOGIC SAS	Galapagos	5,9	6,9			
239	44	ECOLOGIC SAS	Galapagos	4,5	5,3	5,40	4,90	
239	45	ECOLOGIC SAS	Galapagos	7,0	7,6			
239	5	ECOLOGIC SAS	Galapagos	5,2	5,4			
239	6	ECOLOGIC SAS	Galapagos	7,2	7,6			
239	7	ECOLOGIC SAS	Galapagos	8,3	8,1			
239	8	ECOLOGIC SAS	Galapagos	5,6	6,2	5,90	6,90	
239	9	ECOLOGIC SAS	Galapagos	7,0	7,3			
239	1	SULTANA SAS	The Sultana	6,6	7,2	7,30	5,80	
239	2	SULTANA SAS	The Sultana	5,5	6,8			
239	3	SULTANA SAS	The Sultana	6,7	7,8			
239	4	SULTANA SAS	The Sultana	6,3	7,1	7,30	5,20	
239	5	SULTANA SAS	The Sultana	7,5	8,9			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
239	6	SULTANA SAS	The Sultana	6,7	7,7			
239	7	SULTANA SAS	The Sultana	7,1	7,8			
239	8	SULTANA SAS	The Sultana	7,0	7,4	6,70	6,00	
239	9	SULTANA SAS	The Sultana	7,7	8,8			
239	10	SULTANA SAS	The Sultana	6,7	7,8			
239	11	SULTANA SAS	The Sultana	8,0	9,5			
239	12	SULTANA SAS	The Sultana	5,4	6,4	6,20	5,10	
239	13	SULTANA SAS	The Sultana	8,1	8,2			
239	14	SULTANA SAS	The Sultana	6,8	7,8			
239	15	SULTANA SAS	The Sultana	6,6	7,6			
239	16	SULTANA SAS	The Sultana	6,5	7,2	6,60	5,60	
239	17	SULTANA SAS	The Sultana	6,7	7,5			
239	18	SULTANA SAS	The Sultana	6,4	7,0			
239	19	SULTANA SAS	The Sultana	6,9	7,9			
239	20	SULTANA SAS	The Sultana	5,4	6,2	4,10	3,00	
239	21	SULTANA SAS	The Sultana	6,9	8,1			
239	22	SULTANA SAS	The Sultana	5,9	7,0			
239	23	SULTANA SAS	The Sultana	6,4	6,2			
239	24	SULTANA SAS	The Sultana	7,4	8,7	7,20	5,70	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
239	25	SULTANA SAS	The Sultana	5,5	6,1			
239	26	SULTANA SAS	The Sultana	5,7	6,5			
239	27	SULTANA SAS	The Sultana	6,2	5,3			
239	28	SULTANA SAS	The Sultana	6,3	6,6	6,60	5,00	
239	29	SULTANA SAS	The Sultana	7,2	8,4			
239	30	SULTANA SAS	The Sultana	6,1	7,4			
239	31	SULTANA SAS	The Sultana	6,4	8,0			
239	32	SULTANA SAS	The Sultana	5,5	6,4	5,20	5,00	
239	33	SULTANA SAS	The Sultana	7,1	8,4			
239	34	SULTANA SAS	The Sultana	5,4	5,8			
239	35	SULTANA SAS	The Sultana	6,0	7,0			
239	36	SULTANA SAS	The Sultana	6,4	7,0	6,90	5,20	
239	37	SULTANA SAS	The Sultana	6,2	7,0			
239	38	SULTANA SAS	The Sultana	6,7	8,0			
239	39	SULTANA SAS	The Sultana	6,1	6,9			
239	40	SULTANA SAS	The Sultana	6,8	7,9	5,80	5,60	
239	41	SULTANA SAS	The Sultana	6,8	8,1			
239	42	SULTANA SAS	The Sultana	6,7	7,5			
239	43	SULTANA SAS	The Sultana	6,3	8,0			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
239	44	SULTANA SAS	The Sultana	6,4	7,3	6,50	5,60	
239	45	SULTANA SAS	The Sultana	6,5	7,4			
239	46	SULTANA SAS	The Sultana	6,1	6,9			
239	47	SULTANA SAS	The Sultana	6,7	7,8			
239	48	SULTANA SAS	The Sultana	6,3	7,3	6,60	5,50	
239	49	SULTANA SAS	The Sultana	5,6	6,4			
239	50	SULTANA SAS	The Sultana	6,0	6,8			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
240	7	SULTANA SAS	The Sultana	6,0	7,4			
240	8	SULTANA SAS	The Sultana	6,9	7,9	8,30	5,60	
240	9	SULTANA SAS	The Sultana	6,0	8,3			
240	10	SULTANA SAS	The Sultana	6,9	8,9			
240	11	SULTANA SAS	The Sultana	7,4	8,6			
240	12	SULTANA SAS	The Sultana	7,3	8,5	8,40	6,30	
240	13	SULTANA SAS	The Sultana	6,7	8,0			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
240	14	SULTANA SAS	The Sultana	4,6	5,4			
240	15	SULTANA SAS	The Sultana	6,6	7,7			
240	16	SULTANA SAS	The Sultana	7,5	8,6	8,90	5,80	
240	17	SULTANA SAS	The Sultana	7,0	8,4			
240	18	SULTANA SAS	The Sultana	6,9	8,5			
240	19	SULTANA SAS	The Sultana	6,3	7,4			
240	20	SULTANA SAS	The Sultana	6,0	7,0	7,00	6,30	
240	21	SULTANA SAS	The Sultana	7,2	8,4			
240	22	SULTANA SAS	The Sultana	6,5	7,3			
240	23	SULTANA SAS	The Sultana	6,8	8,0			
240	24	SULTANA SAS	The Sultana	7,1	8,2	8,20	5,20	
240	25	SULTANA SAS	The Sultana	5,9	6.5 / 6.7			DAP in Poorly Marked Knot
240	26	SULTANA SAS	The Sultana	7,4	8,4			
240	27	SULTANA SAS	The Sultana	6,0	7,1			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
240	28	SULTANA SAS	The Sultana	7,0	8,1	8,60	5,80	
240	29	SULTANA SAS	The Sultana	7,4	8,7			
240	30	SULTANA SAS	The Sultana	7,0	8,3			
240	31	SULTANA SAS	The Sultana	7,0	8,0			
240	32	SULTANA SAS	The Sultana	8,0	9,4	8,90	6,60	
240	33	SULTANA SAS	The Sultana	6,1	7,1			
240	34	SULTANA SAS	The Sultana	6,0	7,1			
240	35	SULTANA SAS	The Sultana	5,4	6,3			
240	36	SULTANA SAS	The Sultana	7,0	8,4	8,30	5,80	
240	37	SULTANA SAS	The Sultana	7,7	8,8			
240	38	SULTANA SAS	The Sultana	6,3	7,0			
240	39	SULTANA SAS	The Sultana	6,9	7,9			
240	40	SULTANA SAS	The Sultana	7,1	8,0	8,20	6,20	
240	41	SULTANA SAS	The Sultana	7,6	8,7			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
240	42	SULTANA SAS	The Sultana	7,6	8,7			
240	43	SULTANA SAS	The Sultana	6,6	7.3 / 7.7			DAP in Badly Tied Knot
240	44	SULTANA SAS	The Sultana	7,6	8,6	8,40	6,90	
240	45	SULTANA SAS	The Sultana	7,8	8,9			
240	46	SULTANA SAS	The Sultana	7,9	9,4			
240	47	SULTANA SAS	The Sultana	7,1				outside the plot
240	1	SULTANA SAS	The Sultana	5,5	6,6	6,60	5,10	
240	2	SULTANA SAS	The Sultana	6,9	8 / 8.3			DAP in Poorly Marked Knot
240	3	SULTANA SAS	The Sultana	6,2	7,2			
240	4	SULTANA SAS	The Sultana	6,5	7,4	8,00	5,90	
240	5	SULTANA SAS	The Sultana	7,1	8,4			
240	6	SULTANA SAS	The Sultana	6,2	7.2/ 7.5			Dap Mal and Nudo

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
241	1	SULTANA SAS	The Sultana	7,8	8,9	7,50	5,90	Measured over a knot

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
241	2	SULTANA SAS	The Sultana	7,2	8,3			
241	3	SULTANA SAS	The Sultana	8,2	9,6			
241	4	SULTANA SAS	The Sultana	5,8	6,6	6,50	4,80	
241	5	SULTANA SAS	The Sultana	7,1	8,5			DAP is wrong
241	6	SULTANA SAS	The Sultana	7,7	8,9			
241	16	SULTANA SAS	The Sultana	7,4	8,1	7,50	5,30	
241	17	SULTANA SAS	The Sultana	6,9	8,0			
241	18	SULTANA SAS	The Sultana	7,0	7,9			
241	19	SULTANA SAS	The Sultana	5,3	7,7			
241	20	SULTANA SAS	The Sultana	6,9	7,8	7,40	5,30	
241	21	SULTANA SAS	The Sultana	6,6	7,8			
241	22	SULTANA SAS	The Sultana	6,6	7,6			
241	23	SULTANA SAS	The Sultana	2,9	3,4			
241	24	SULTANA SAS	The Sultana	7,7	8,5	7,90	5,50	
241	25	SULTANA SAS	The Sultana	6,0	6,8			
241	26	SULTANA SAS	The Sultana	8,0	9,0			
241	27	SULTANA SAS	The Sultana	6,7	7,5			
241	28	SULTANA SAS	The Sultana	7,8	8,0	8,50	6,10	
241	29	SULTANA SAS	The Sultana	6,5	7,4			

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
241	30	SULTANA SAS	The Sultana	7,2	8,2			
241	31	SULTANA SAS	The Sultana	6,3	6,8			
241	32	SULTANA SAS	The Sultana	7,7	7,4	9,10	6,00	DAP on Nudo
241	33	SULTANA SAS	The Sultana	7,8	8,8			
241	34	SULTANA SAS	The Sultana	8,1	9,2			
241	35	SULTANA SAS	The Sultana	7,2	8,0			
241	36	SULTANA SAS	The Sultana	4,3	5,5	5,30	4,10	
241	37	SULTANA SAS	The Sultana	4,4	5 3			
241	38	SULTANA SAS	The Sultana	6,2	7,3			
241	39	SULTANA SAS	The Sultana	6,3	7,2			
241	40	SULTANA SAS	The Sultana	6,0	6,8	8,30	4,70	
241	41	SULTANA SAS	The Sultana	5,8	6,9			
241	42	SULTANA SAS	The Sultana	5,6	6,4			
241	43	SULTANA SAS	The Sultana	7,4	7,7			
241	44	SULTANA SAS	The Sultana	4,0	4,6	8,50	5,00	
241	45	SULTANA SAS	The Sultana	5,1	6,0			
241	46	SULTANA SAS	The Sultana	6,0	7,5			
241	47	SULTANA SAS	The Sultana	5,5	6,0			
241	48	SULTANA SAS	The Sultana	2,8	2,9	5,70	3,90	

Plot	No. Tree	Enterprise	Property	Diameter (cm)	Field Diameter	Pitch height	Height (m)	Remarks
241	10	SULTANA SAS	The Sultana	6,4	7,3			
241	11	SULTANA SAS	The Sultana	6,9	7,7			
241	12	SULTANA SAS	The Sultana	6,9	7,7	7,20	5,40	
241	13	SULTANA SAS	The Sultana	8,0	9,0			
241	14	SULTANA SAS	The Sultana	3,1	6,6			
241	15	SULTANA SAS	The Sultana	5,9	6,5			DAP Mal
241	7	SULTANA SAS	The Sultana	6,7	7,5			
241	8	SULTANA SAS	The Sultana	1,9	2,0			Suppressed
241	9	SULTANA SAS	The Sultana	7,6	8,5	7,10	5,60	

11.5 Annex 5. Document Review

Use the table to list all documents reviewed and referenced during verification, including BCR or CDM documents. For each document, indicate the following:

a) *Title: Provide the title of the document. Include the version number, if applicable.*
b) *Author: Provide the name of the author(s). When the author(s) belong to the organization(s) publishing the document, indicate only the name of the organization(s);*
c) *Document references: Where applicable, provide the relevant reference to the document, such as completion/publication dates and URL.*
d) *Vendor: Choose one of the following options to indicate who provided the document to the CAB for review.*

ID	File Description	File Name	Author(s) format	Reference
/1/	Environmental Legal Matrix	Environmental legal matrix_ AlcaravanOrinoquia.xlsx	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/2/	Puerto Gaitán Development Plan	Agreement No. 006 of 2020 PD Puerto Gaitan.pdf	Puerto Gaitán Mayor's Office	Official Secondary School
/3/	Puerto López Development Plan	Agreement No. 006 of 2020 PD Puerto Lopez.pdf	Puerto López Mayor's Office	Official Secondary School
/4/	Puerto Gaitán Territorial Planning Scheme	Agreement No. 017 of 2009 EOT Puerto Gaitan.PDF	Puerto Gaitán Mayor's Office	Official Secondary School
/5/	Water Consumption Module Agreement	ACUERDO_200.3.2.19-001_MODULOS_DE_CONSUMO.pdf	Corporinoquia	Official Secondary School
/6/	Convention concerning the Protection of the World Cultural and Natural Heritage	Convention concerning the Protection of the World Cultural and natural.pdf Heritage	UNESCO	Official Secondary School
/7/	Decree 1071 of 2015	Decree 1071 of 2015.pdf	National Executive Branch	Official Secondary School
/8/	Decree 1076 of 2015	Decree 1076 of 2015_MADS.docx	National Executive Branch	Official Secondary School
/9/	DECREE 1791 OF 1996	DECREE 1791 OF 1996.pdf	National Executive Branch	Official Secondary School
/10/	DECREE 926 OF JUNE 1	DECREE 926 OF JUNE 1, D.pdf	National Executive Branch	Official Secondary School
/11/	Decree 1449 of 1977	Decreto_1449_de_1977.pdf	National Executive Branch	Official Secondary School
/12/	Decree 2372 of 2010	Decreto_2372_de_2010.pdf	National Executive Branch	Official Secondary School
/13/	Decree 2811 of 1974	Decreto_2811_de_1974.pdf	National Executive Branch	Official Secondary School

ID	File Description	File Name	Author(s) format	Reference
/14/	Law 1450 of 2011	Law 1450 of 2011.pdf	National Executive Branch	Official Secondary School
/15/	Ley 2da de 1959	Ley 2da de 1959.pdf	National Executive Branch	Official Secondary School
/16/	Law 1377 of 2010	Ley_1377_de_2010.pdf	National Executive Branch	Official Secondary School
/17/	Law 164 of 1994	Ley_164_de_1994.pdf	National Executive Branch	Official Secondary School
/18/	Law 1931 of 2018	Ley_1931_de_2018.pdf	National Executive Branch	Official Secondary School
/19/	Law 299 of 1996	Ley_299_de_1996.pdf	National Executive Branch	Official Secondary School
/20/	Law 357 of 1997	Ley_357_de_1997.pdf	National Executive Branch	Official Secondary School
/21/	Cumaribo Development Plan	PD_Cumaribo.pdf	Cumaribo Mayor's Office	Official Secondary School
/22/	Puerto Lleras Development Plan	PD_Puerto Lleras.pdf	Puerto Lleras Mayor's Office	Official Secondary School
/23/	National Forestry Development Plan	PNDFORESTAL.pdf	National Executive Branch	Official Secondary School
/24/	Resolution of Environmental Determinants	Res PS-GJ 1.2.6.18.2053_2018.pdf	Cormacarena	Official Secondary School
/25/	Resolution of open and controlled burns	Beef PS-GJ.1.2.6.15.0018_2015.pdf	Cormacarena	Official Secondary School

ID	File Description	File Name	Author(s) format	Reference
/26/	Enlargement Resolution	Res PS-GJ.1.2.6.16.0336.pdf	Cormacarena	Official Secondary School
/27/	Enlargement Resolution	Res PS-GJ.1.2.6.18.0633.pdf	Cormacarena	Official Secondary School
/28/	Resolution 1447 of 2018	Res1447_2018_MinAmbiente.pdf	National Executive Branch	Official Secondary School
/29/	ICA Registration	2_ICA SULTANA S.A.S.pdf	ICA	Official Secondary School
/30/	ICA Registration	3_ICA_ENLACE RED SAS.pdf	ICA	Official Secondary School
/31/	ICA Registration	5_ICA_LUIS FERNANDO RODRIGUEZ.pdf	ICA	Official Secondary School
/32/	ICA Registration	7_ICA_CLAUDIA HUERFANO.pdf	ICA	Official Secondary School
/33/	ICA Registration	8_ICA_PUNTA OF GARZAS.pdf	ICA	Official Secondary School
/34/	ICA visit report	1_ActaVisita2022_Ecologic.pdf	ICA	Official Secondary School
/35/	ICA Registration Management Evidence	2_SolicitudRegistro_Ecologic.pdf	ECOLOGIC	Elaboration of the project
/36/	Forest Establishment and Management Plan	1_PEMF_ECOLOGICS. A.S.pdf	ECOLOGIC	Official Secondary School
/37/	CIF Forest Establishment and Management Plan Form	2_PEMF_SULTANAS.xlsx	Min Agriculture	Completed the project

ID	File Description	File Name	Author(s) format	Reference
/38/	CIF Forest Establishment and Management Plan Form	SAS.xlsx of the 3_PEMF_ENLACE ROJO	Min Agriculture	Completed the project
/39/	CIF Forest Establishment and Management Plan Form	4_PEMF_ECOSISTEMAPRODUCTIVOMATAEMONTE.xlsx	Min Agriculture	Completed the project
/40/	CIF Forest Establishment and Management Plan Form	5_PEMF_LUIS RODRIGUEZ.xlsx	Min Agriculture	Completed the project
/41/	CIF Forest Establishment and Management Plan Form	6_PEMF_INVERSIONES COLOMBIA_PC.xlsx RANGER	Min Agriculture	Completed the project
/42/	CIF Forest Establishment and Management Plan Form	7_PEMF_CLAUDIA HUERFANO.xlsx	Min Agriculture	Completed the project
/43/	CIF Forest Establishment and Management Plan Form	8_PEMF_PUNTA OF GARZA_IF.xlsx	Min Agriculture	Completed the project
/44/	CIF Forest Establishment and Management Plan Form	8_PEMF_PUNTA OF GARZA_IF_EP.xlsx	Min Agriculture	Completed the project
/45/	Planting Plan	Planting_plan_AlcaravanOrinoq.xlsx	CO2CERO	Elaboration of the project
/46/	Agreement or contract	Contract_CO2CERO-ECOLOGIC_FP_AlcaravánOrinoquía.pdf	CO2CERO	Elaboration of the project
/47/	Forest Inventory Database	DB_AlcaravanOrinoquia_22.xlsx	CO2CERO and others	Elaboration of the project
/48/	Forest Monitoring Methodology	FP_AlcaravanOrinoquia_Forest_inventory_V2.pdf	ECOLOGIC	Elaboration of the project
/49/	What's new in forest monitoring	What'CO2CERO SAS News - ECOLOGIC SAS.pdf	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/50/	Monitoring Report	MR_AlcaravanOrinoquia_V7.docx	CO2CERO	Completed the project
/51/	Monitoring Report	MR_AlcaravanOrinoquia_V8.docx	CO2CERO	Completed the project
/52/	Monitoring Report	MR_AlcaravanOrinoquia_V7.pdf	CO2CERO	Completed the project
/53/	Monitoring Report	RM_AlcaravanOrinoquia_V2.docx	CO2CERO	Completed the project
/54/	Monitoring Report	RM_AlcaravanOrinoquia_V2.pdf	CO2CERO	Completed the project
/55/	Monitoring Report	RM_AlcaravanOrinoquia_V3.docx	CO2CERO	Completed the project
/56/	Monitoring Report	RM_AlcaravanOrinoquia_V3_Antiguo.docx	CO2CERO	Completed the project
/57/	Monitoring Report	RM_AlcaravanOrinoquia_V4.docx	CO2CERO	Completed the project
/58/	Monitoring Report	RM_AlcaravanOrinoquia_V5.docx	CO2CERO	Completed the project
/59/	Monitoring Report	RM_AlcaravanOrinoquia_V5_Desajustada.docx	CO2CERO	Completed the project
/60/	Monitoring Report	RM_AlcaravanOrinoquia_V6.pdf	CO2CERO	Completed the project
/61/	ODS Tool Support	BCR TOOL SDG_AlcaravanOrinoquia_V3_1.xlsm	BCR	Completed the project

ID	File Description	File Name	Author(s) format	Reference
/62/	Leadership Workshop Attendance	Attendance at 17032022.xlsx Leadership Workshop	CO2CERO and others	Elaboration of the project
/63/	Certificate of Freedom and Tradition	01_CTL_ECOLOGIC.pdf	Superintendence of Notaries and Registry	Official Secondary School
/64/	Forestry Operation Format	79. The Sultana - Operation OCT - DEC 2022.pdf	ECOLOGIC	Elaboration of the project
/65/	Forestry Operation Format	Sultana Report (April - June 2022).pdf	ECOLOGIC	Elaboration of the project
/66/	Forestry Operation Format	Sultana Report (July - September 2022).pdf	ECOLOGIC	Elaboration of the project
/67/	Forestry Operation Format	Sultana Report (October-November and December).pdf	ECOLOGIC	Elaboration of the project
/68/	ODS Tool Support	BCR TOOL ODS_AlcaravanOrinoquia_V2.xlsm	BCR	Completed the project
/69/	ODS Tool Support	BCR TOOL ODS_AlcaravanOrinoquia_V3.xlsm	BCR	Completed the project
/70/	Forest Inventory by Owner Database	1&2_DB_Employees_Ecologic & Sultana_2022.xlsx	CO2CERO	Elaboration of the project
/71/	Forest Inventory by Owner Database	1&2_RespuestadelPunto1_Ecologic & Sultana.pdf	CO2CERO	Elaboration of the project
/72/	Forest Inventory by Owner Database	3_DB_EnlaceRojo_2022.xlsx	CO2CERO	Elaboration of the project
/73/	Forest Inventory by Owner Database	5_DB_LuisRodriguez_2022.xlsx	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/74/	Forest Inventory by Owner Database	6_DB_InverGuarBos_2022.xlsx	CO2CERO	Elaboration of the project
/75/	Forest Inventory by Owner Database	7_DB_ClaudiaHuerfano_2022.xlsx	CO2CERO	Elaboration of the project
/76/	Work Contract	CONTRACT JUAN CARLOS NAVARRO.pdf	Temporary Integral SAS	Elaboration of the project
/77/	Work Contract	CONTRACT MARIBELQUINTERO.pdf	Temporary Integral SAS	Elaboration of the project
/78/	Work Contract	CONTRACT_JOSE GALVIS.pdf	Temporary Integral SAS	Elaboration of the project
/79/	Work Contract	WORK CONTRACT_WILSON ALVARADO.pdf	Temporary Integral SAS	Elaboration of the project
/80/	Reforesters' Contract Form	01_ECOLOGIC SAS_V1.pdf	CO2CERO	Elaboration of the project
/81/	Reforesters' Contract Form	01_ECOLOGIC SAS_V2.pdf	CO2CERO	Elaboration of the project
/82/	Other if reforesters link format	01_OtroSi_ECOLOGIC SAS_V1.pdf	CO2CERO	Elaboration of the project
/83/	Reforesters' Contract Form	02_ SULTANA SAS_V2.pdf	CO2CERO	Elaboration of the project
/84/	Certificate of Freedom and Tradition	02_CTL_SULTANA.pdf	Superintendence of Notaries and Registry	Official Secondary School
/85/	Reforesters' Contract Form	02_SULTANA SAS_V1.pdf	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/86/	Forestry Operation Format	03. SULTANA - Forestry Operation ENERO.pdf	ECOLOGIC	Elaboration of the project
/87/	Reforesters' Contract Form	03_ ENLACE ROJO SAS _V2.pdf	Superintendence of Notaries and Registry	Official Secondary School
/88/	Departmental Plan for Disaster Risk Management Target	PDGRD_Meta_2018.pdf	UDGRD	Official Secondary School
/89/	Departmental Plan for Disaster Risk Management Vichada	PDGRD_Vichada_2012.pdf	UDGRD	Official Secondary School
/90/	LAW 1844 OF 2017	LAW 1844 OF 2017.pdf	National Executive Branch	Official Secondary School
/91/	Law 1931 of 2018	Ley_1931_de_2018.pdf	National Executive Branch	Official Secondary School
/92/	Corporate Sustainability Report	221027_SUSTAINABILITY REPORT_CO2CERO_2019.pdf	CO2CERO	High school
/93/	Corporate Sustainability Report	221027_SUSTAINABILITY REPORT_CO2CERO_2020.pdf	CO2CERO	High school
/94/	Corporate Sustainability Report	221027_SUSTAINABILITY REPORT_ECOLOGIC_2018 (1).pdf	CO2CERO	High school
/95/	Corporate Sustainability Report	221213_SUSTAINABILITY REPORT_ECOLOGIC_2019.pdf	CO2CERO	High school
/96/	Biennial Report on Climate Change in Colombia	BUR3 - COLOMBIA 2019.pdf	IDEAM and others	Official Secondary School
/97/	Evaluation of cattle farming in Vichada	Eve. of the Heads of Cattle Vic.pdf	University of the Plains	High school
/98/	Galapagos Farm Operational Plan	2_PEMF_ECOLOGICS. A.S.pdf	ECOLOGIC	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/99/	Training and socialization in environmental management	Talks & Trainings Ambiental.xlsx Management	CO2CERO	Elaboration of the project
/100/	Forest Protection Plan	Plan de manejo forestal PFF.pdf	ECOLOGIC	Elaboration of the project
/101/	Reporte Fauna	Carried over from Fauna ECOLOGIC SAS.XLS	ECOLOGIC	Elaboration of the project
/102/	Training, use of resources	Utilization of existing waste 17122020.pdf	ECOLOGIC	Elaboration of the project
/103/	Environmental Awareness Training	Chapter Environmental Awareness 01092022.pdf	ECOLOGIC	Elaboration of the project
/104/	Environment Talk	Talk Environment 11042022.pdf	ECOLOGIC	Elaboration of the project
/105/	Waste Sorting Training	Waste Sorting 15092021.pdf	ECOLOGIC	Elaboration of the project
/106/	Waste Sorting Training	Waste Sorting 15042020.pdf	ECOLOGIC	Elaboration of the project
/107/	Environmental Awareness Training	Environmental Awareness 02122022.pdf	ECOLOGIC	Elaboration of the project
/108/	Waste Management Training	Waste Management 01072020.pdf	ECOLOGIC	Elaboration of the project
/109/	Waste Management Training	Waste Management 22082020.pdf	ECOLOGIC	Elaboration of the project
/110/	Organic Waste Management Training	Organic Waste Management 09072020.pdf	ECOLOGIC	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/111/	Resource management training	Cleanliness Saves Water 27092021.pdf	ECOLOGIC	Elaboration of the project
/112/	Environmental Management Program Training	Environmental Management Program 29022021.pdf	ECOLOGIC	Elaboration of the project
/113/	Environmental Protection Training	Environmental Protection 06072022.pdf	ECOLOGIC	Elaboration of the project
/114/	Physical Risk Training	Physical Risk - Separation of Waste 04112022.pdf	ECOLOGIC	Elaboration of the project
/115/	Training Evaluation	Evaluation Carlos Ramírez, Luis Treco .pdf	ECOLOGIC	Elaboration of the project
/116/	Training Evaluation	Evaluation Daniel Delgado .pdf	ECOLOGIC	Elaboration of the project
/117/	Training Evaluation	Evaluation Danilson José, Carlos Gómez, Leonardo Oyola .pdf	ECOLOGIC	Elaboration of the project
/118/	Training Evaluation	Evaluation Darwin Tapia, Pablo Vertel .pdf	ECOLOGIC	Elaboration of the project
/119/	Training Evaluation	Evaluation Diana Bohórquez, Rubén Manjarrez .pdf	ECOLOGIC	Elaboration of the project
/120/	Training Evaluation	Evaluation Fredy Sánchez, Luis Bertel.pdf	ECOLOGIC	Elaboration of the project
/121/	Training Evaluation	Evaluation Jerson Daniel, Joan Useche .pdf	ECOLOGIC	Elaboration of the project
/122/	Training Evaluation	Evaluation Jesús Zornosa, Eduardo Ramírez, Luis Zurita .pdf	ECOLOGIC	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/123/	Training Evaluation	Evaluation Jhonar Vargas, Domingo Priolo .pdf	ECOLOGIC	Elaboration of the project
/124/	Training Evaluation	Evaluation José Armando, Andrés Sánchez .pdf	ECOLOGIC	Elaboration of the project
/125/	Training Evaluation	Evaluation José Luis .pdf	ECOLOGIC	Elaboration of the project
/126/	Training Evaluation	Evaluation Leonardo Oyola, Nilson Gonzáles .pdf	ECOLOGIC	Elaboration of the project
/127/	Training Evaluation	Evaluation Marlon Goyeneche, Jorge Carrascal .pdf	ECOLOGIC	Elaboration of the project
/128/	Training Evaluation	Evaluation Nando Oyola, Wilfrido Ubarnes.pdf	ECOLOGIC	Elaboration of the project
/129/	Training Evaluation	Evaluation Yasmany Parra, Herney Zambrano .pdf	ECOLOGIC	Elaboration of the project
/130/	Training Evaluation	Review, Deider Garcés .pdf	ECOLOGIC	Elaboration of the project
/131/	Training Evaluation	Evaluation, Polo Baldiris and Sebastian Herrera .pdf	ECOLOGIC	Elaboration of the project
/132/	Effective Planting Area	Area_Plantada_PFAlcaravanOrinoquia.xlsx	CO2CERO	Elaboration of the project
/133/	Base line coverage	Cobertura_Antes2017.shp	CO2CERO	Elaboration of the project
/134/	Plantation Timeline	Tiempo.pptx Line	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/135/	Municipal cartography Meta and Vichada	Muni_Meta&Vichada.shp	CO2CERO	Elaboration of the project
/136/	Departmental Plan for Agricultural Extension Meta	PDEA_Meta.pdf	Meta Governorate	Official Secondary School
/137/	Vichada Departmental Agricultural Extension Plan	PDEA_Vichada.pdf	Vichada Governorate	Official Secondary School
/138/	Employee Database	1&2_DB_Employees_Ecologic & Sultana_2022.xlsx	ECOLOGIC and others	High school
/139/	Employee Database	3_DB_EnlaceRojo_2022.xlsx	ECOLOGIC and others	High school
/140/	Employee Database	5_DB_LuisRodriguez_2022.xlsx	ECOLOGIC and others	High school
/141/	Employee Database	6_DB_InverGuarBos_2022.xlsx	ECOLOGIC and others	High school
/142/	Employee Database	7_DB_ClaudiaHuerfano_2022.xlsx	ECOLOGIC and others	High school
/143/	Work Contract	CONTRACT JOSE GALVIS.pdf	Temporary Integral SAS	Elaboration of the project
/144/	Work Contract	CONTRACT JUAN CARLOS NAVARRO.pdf	Temporary Integral SAS	Elaboration of the project
/145/	Work Contract	CONTRACT MARIBELQUINTERO.pdf	Temporary Integral SAS	Elaboration of the project
/146/	Work Contract	WORK CONTRACT_WILSON ALVARADO.pdf	Temporary Integral SAS	Elaboration of the project
/147/	Employee Database	BD_Empleados_Galápagos_2022.xlsx	ECOLOGIC and others	High school
/148/	Environmental Assessment	Environmental_evaluation_Alcaravan_V1.xlsx	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/149/	SOCIAL AND ECONOMIC CHARACTERIZATION OF THE VILLAGE OF SANTA HELENA, Puerto Gaitán	Characterization_socioeconomic_Santa Helena.pdf.pdf	Dar Igual a Receive Foundation	High school
/150/	Socio-economic assessment	Socioeconomic_evaluation_Alcaravan_V3.xlsx	CO2CERO	Elaboration of the project
/151/	Socio-economic assessment	Evaluación_socioeconómica_Alcaravan_V2.xlsx	CO2CERO	Elaboration of the project
/152/	Risk Management	Risk_Management_Alcaravan_V1.xlsx	BCR	Completed the project
/153/	Project Eligibility	Elegibilidad_2022_V2_5.shp	CO2CERO	Elaboration of the project
/154/	Location of monitoring plots	Parcelas_V2_1.shp	CO2CERO	Elaboration of the project
/155/	Project Eligibility	Elegibilidad_2022_V3.shp	CO2CERO	Elaboration of the project
/156/	Location of monitoring plots	Parcelas_V2.shp	CO2CERO	Elaboration of the project
/157/	Mapping Protected Areas	Protected Areas.mxd	CO2CERO	Elaboration of the project
/158/	Cartography Environmental Restricted Areas	Areas_restriccion ambiental.mxd	CO2CERO	Elaboration of the project
/159/	Location of the project	Localization.mxd	CO2CERO	Elaboration of the project
/160/	Land Tenure Matrix	PC-P07-F03 Land Tenure Matrix Format PMCC.xlsx	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/161/	ECOLOGIC Chamber of Commerce	CamComercio_Ecologic.pdf	Chamber of Commerce	Official Secondary School
/162/	FedericoLopez ID	CC_FedericoLopez.pdf	Registrar	Official Secondary School
/163/	Cédula RodríguezMauricio	CC_RodriguezMauricio.pdf	Registrar	Official Secondary School
/164/	Certificate of Freedom and Tradition	CTL_ECOLOGIC.pdf	Superintendence of Notaries and Registry	Official Secondary School
/165/	RUT ECOLOGIC	RUT_Ecologic.pdf	DIAN	Official Secondary School
/166/	LaSultanaSAS Chamber of Commerce	CamComercio_LaSultanaSAS.pdf	Chamber of Commerce	Official Secondary School
/167/	Cédula Pablo Macias	CC_PabloMacias.pdf	Registrar	Official Secondary School
/168/	Certificate of Freedom and Tradition	CTL_SULTANA.pdf	Superintendence of Notaries and Registry	Official Secondary School
/169/	RUT_Sultana	RUT_Sultana.pdf	DIAN	Official Secondary School
/170/	Certificate of Freedom and Tradition	CTL_Sultana.pdf	Superintendence of Notaries and Registry	Official Secondary School
/171/	Camera of Comercio_EnlaceRojoSAS	CamComercio_EnlaceRojoSAS.pdf	Chamber of Commerce	Official Secondary School
/172/	Identity card Néstor Hurtado	CC_NéstorHurtado.pdf	Registrar	Official Secondary School

ID	File Description	File Name	Author(s) format	Reference
/173/	Certificate of Freedom and Tradition	CTL_Barlovento.pdf	Superintendence of Notaries and Registry	Official Secondary School
/174/	RUT_ENLACE RED SAS_CONTRASEÑA	RUT_ENLACE RED SAS_CONTRASEÑA 1.pdf	DIAN	Official Secondary School
/175/	Comercio_Mat Camera	CamComercio_Mat.pdf	Chamber of Commerce	Official Secondary School
/176/	Jeronimo Torres ID	CC_JeronimoTorres.pdf	Registrar	Official Secondary School
/177/	Lease Agreement	CoA_Botereña.pdf	CO2CERO	Elaboration of the project
/178/	CTL_Botereña	CTL_Botereña.pdf	Superintendence of Notaries and Registry	Official Secondary School
/179/	CC_LUIS FERNANDO RODRIGUEZ	CC_LUIS FERNANDO RODRIGUEZ.pdf	Registrar	Official Secondary School
/180/	CTL_ luis Fernando Rodriguez	CTL_ luis Fernando Rodriguez.pdf	Superintendence of Notaries and Registry	Official Secondary School
/181/	RUT_Luis Fernando Rodriguez	RUT_Luis Fernando Rodriguez.pdf	DIAN	Official Secondary School
/182/	CC_LopezWilliam	CC_LopezWilliam.pdf	Registrar	Official Secondary School
/183/	CTL_LaCabaña	CTL_LaCabaña.pdf	Superintendence of Notaries and Registry	Official Secondary School
/184/	RUT_Inversiones Ranger	RUT_Inversiones Guardabosques.pdf	DIAN	Official Secondary School

ID	File Description	File Name	Author(s) format	Reference
/185/	CC_HuerfanoClaudia	CC_HuerfanoClaudia.pdf	Registrar	Official Secondary School
/186/	CTL_Claudia Huérfano and Fabio Reyes	CTL_Claudia Huérfano and Fabio Reyes.pdf	Superintendence of Notaries and Registry	Official Secondary School
/187/	RUT_HuerfanoClaudia	RUT_HuerfanoClaudia.pdf	DIAN	Official Secondary School
/188/	CIF visit minutes	ActaVisitaCIF_VillaClaudia.pdf	Min Agriculture	Official Secondary School
/189/	Identity cards	Cedulas.pdf	Registrar	Official Secondary School
/190/	Certificate of Freedom and Tradition	CTL_HuerfanoClaudia.pdf	Superintendence of Notaries and Registry	Official Secondary School
/191/	Contract another yes	OTROSI - Claudia Huerfano.pdf	CO2CERO	Elaboration of the project
/192/	PuntadeGarzas Chamber of Commerce	Camcomercio_PuntadeGarzas.pdf	Chamber of Commerce	Official Secondary School
/193/	BravoMaria Banknote	CC_BravoMaria.pdf	Registrar	Official Secondary School
/194/	Certificate of Freedom and Tradition	CTL_Punta of garzas.pdf	Superintendence of Notaries and Registry	Official Secondary School
/195/	RUT_PuntaDeGarzas	RUT_PuntaDeGarzas.pdf	DIAN	Official Secondary School
/196/	Documentary characterization of the project	Caracterizacion_Documental_V2.pdf	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/197/	Master Document Listing CO2CERO	Master Listing of PdC.xlsx	CO2CERO	Elaboration of the project
/198/	PC-P05 Procedure for Forest Carbon Projects	PC-P05 Procedure for Carbon Projects Forestal.pdf	CO2CERO	Elaboration of the project
/199/	PC-P06 Forest PoC Information Management Procedure	PC-P06 PoC Information Management Procedure Forestal.pdf	CO2CERO	Elaboration of the project
/200/	PC-P07 Procedure Legal Requirements and Land Tenure	PC-P07 Procedure Legal Requirements and Tenure of tierra.pdf	CO2CERO	Elaboration of the project
/201/	PC-P08 Forest PoC Quality Procedure	PC-P08 Quality Procedure PdC Forestal.pdf	CO2CERO	Elaboration of the project
/202/	Intention to participate in the project	Letter of intent_ Enlace Rojo S.A.S.pdf	CO2CERO	Elaboration of the project
/203/	Intention to participate in the project	Letter of intent_ Luis Rodriguez.pdf	CO2CERO	Elaboration of the project
/204/	Intention to participate in the project	Letter of intent_Ecosistema productivo mataemonte S.A.S.pdf	CO2CERO	Elaboration of the project
/205/	Intention to participate in the project	Letter of intent_Inversiones guardabosques de Colombia.pdf	CO2CERO	Elaboration of the project
/206/	Certificate of Freedom and Tradition	03_CTL_EnlaceRojo.pdf	Superintendence of Notaries and Registry	Official Secondary School
/207/	Reforesters' Contract Form	PRODUCTIVE 03_ECOSISTEMA MATAEMONTE_V1.pdf	CO2CERO	Elaboration of the project
/208/	Reforesters' Contract Form	03-ENLACE ROJO SAS _1.pdf	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/209/	Reforesters' Contract Form	04_ PUNTA GARZAS_V2.pdf	CO2CERO	Elaboration of the project
/210/	Certificate of Freedom and Tradition	04_CTL_EnlaceProductivoMatamonte.pdf	Superintendence of Notaries and Registry	Official Secondary School
/211/	Reforesters' Contract Form	04-MATAMONTE PRODUCTIVE ECOSYSTEM SAS_V1.pdf	CO2CERO	Elaboration of the project
/212/	Reforesters' Contract Form	04-MATAMONTE PRODUCTIVE ECOSYSTEM SAS_V2.pdf	CO2CERO	Elaboration of the project
/213/	Certificate of Freedom and Tradition	05_CTL_ Luis Rodriguez.pdf	Superintendence of Notaries and Registry	Official Secondary School
/214/	Reforesters' Contract Form	05-LUIS FERNANDO RODRIGUEZ_V1.pdf	CO2CERO	Elaboration of the project
/215/	Reforesters' Contract Form	05-LUIS FERNANDO RODRIGUEZ_V2.pdf	CO2CERO	Elaboration of the project
/216/	Certificate of Freedom and Tradition	06_CTL_InversionesGuardaBosque.pdf	Superintendence of Notaries and Registry	Official Secondary School
/217/	Reforesters' Contract Form	06_INVERSIONES COLOMBIA_V1.pdf RANGER	CO2CERO	Elaboration of the project
/218/	Reforesters' Contract Form	06_INVERSIONES COLOMBIA_V2.pdf RANGER	CO2CERO	Elaboration of the project
/219/	Reforesters' Contract Form	07_CLAUDIA HUERFANO_V1.pdf	CO2CERO	Elaboration of the project
/220/	Reforesters' Contract Form	07_CLAUDIA HUERFANO_V2.pdf	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/221/	Certificate of Freedom and Tradition	07_CTL_Claudia Huerfano.pdf	Superintendence of Notaries and Registry	Official Secondary School
/222/	Certificate of Freedom and Tradition	08_CTL_Punta of garzas.pdf	Superintendence of Notaries and Registry	Official Secondary School
/223/	Reforesters' Contract Form	08_PUNTA DE GARZAS INVERSIONES FORESTALES_V1.pdf	CO2CERO	Elaboration of the project
/224/	Reforesters' Contract Form	08_PUNTA DE GARZAS INVERSIONES FORESTALES_V2.pdf	CO2CERO	Elaboration of the project
/225/	Contract for the Linking of Reforestadores_ La Sultana_FIRMADO_V Agricultural Alcaraván_ Project	Contract for the Linking of Reforestadores_ La Sultana_FIRMADO_V1.pdf Agricultural Alcaraván_ Project	CO2CERO	Elaboration of the project
/226/	Excel Additionality Tool	Add_AlcaravanOrinoquia_V2.xlsx	BCR	Elaboration of the project
/227/	annex-en-characterization-upa-producer-2019-I	anexo-ena-caracterizacion-upa-productor-2019-I.xlsx	DANE	Official Secondary School
/228/	Analysis of the CIF in the Forest Chain in Meta	Analysis of the CIF in the forest chain in the Meta.pdf	De La Salle University	High school
/229/	National Agricultural Census	National Agricultural Census 2016.pdf	DANE et al.	Official Secondary School
/230/	Agricultural and Rural Credit Booklet	Agricultural and Rural Credit Cartilla.pdf	Finagro	Official Secondary School
/231/	Soil Erosion in Colombia	Soil Erosion in Colombia.pdf	IDEAM and others	Official Secondary School
/232/	Soil Erosion in Colombia	Soil Erosion in Colombia_2.pdf	IDEAM and others	Official Secondary School

ID	File Description	File Name	Author(s) format	Reference
/233/	Municipal Organizational Structures	Organizational Structures Municipales.pdf	Mayor's Office Puerto Gaitán, Puerto Lleras and Cumaribo	Official Secondary School
/234/	Garcia_2006_PoliticasdelSectorGanadero	Garcia_2006_PoliticasdelSectorGanadero.pdf	Banrep	Official Secondary School
/235/	Politica_nacional_de_biodiversidad	Politica_nacional_de_biodiversidad.pdf	National Executive Branch	Official Secondary School
/236/	Policies for the development of agriculture	Policies for the development of agricultura.pdf	SAC and others	Official Secondary School
/237/	ReforestaciónComercial_FEDEMADERAS	ReforestaciónComercial_FEDEMADERAS.pdf	Fedemaderas	Official Secondary School
/238/	Trujillo et_alacitación environmental awareness	Trujillo et_al.2016 Biodiversity of the Meta.pdf River Basin	Meta Governorate and others	Official Secondary School
/239/	Trujillo & Lasso (2017)	Trujillo & Lasso (2017). Biodiversity of the Bita River, Vichada.pdf	Government of Vichada and others	Official Secondary School
/240/	Project Eligibility	Eligibility_Alcaravan_V1.xlsx	CO2CERO	Elaboration of the project
/241/	ExAnte Calculations	ExAnte_AlcaravanOrinoquia_V3.xlsm	CO2CERO	Elaboration of the project
/242/	ExAnte Calculations	ExAnte_AlcaravanOrinoquia_V1.xlsm	CO2CERO	Elaboration of the project
/243/	ExAnte Calculations	ExAnte_AlcaravanOrinoquia_V2.xlsm	CO2CERO	Elaboration of the project
/244/	Differentiated_carbon_OVV_Alcaravan	Differentiated_carbon_OVV_Alcaravan_22.xlsx	CO2CERO	Elaboration of the project

ID	File Description	File Name	Author(s) format	Reference
/245/	ExPost Calculations	Expost_AlcaravanOrinoquia_V4.xlsx	CO2CERO	Elaboration of the project
/246/	ExPost Calculations	Expost_AlcaravanOrinoquia_V2.xlsx	CO2CERO	Elaboration of the project
/247/	ExPost Calculations	Expost_AlcaravanOrinoquia_V3.xlsx	CO2CERO	Elaboration of the project
/248/	ExPost Calculations	Expost_AlcaravanOrinoquia_V3_1.xlsx	CO2CERO	Elaboration of the project
/249/	BCR0001_Documento-Metodologico-AFOLU	BCR0001_Documento-metodologico-AFOLU.pdf	BCR	High school
/250/	Estándar_BCR_V_3acitación environmental awareness	Estándar_BCR_V_3.2.pdf	BCR	High school
/251/	Estándar_BCR	Estándar_BCR.pdf	BCR	High school
/252/	ar-am-tool-03-v2environmental awareness	ar-am-tool-03-v2.1.0.pdf	UNFCCC/CCNUCC	High school
/253/	ar-am-tool-12-v3environmental awareness	ar-am-tool-12-v3.1.pdf	UNFCCC/CCNUCC	High school
/254/	ar-am-tool-14-v4environmental awareness	ar-am-tool-14-v4.2.pdf	UNFCCC/CCNUCC	High school
/255/	ar-am-tool-16-v1activity environmental awareness	ar-am-tool-16-v1.1.0.pdf	UNFCCC/CCNUCC	High school
/256/	BCR Additionality Document	BCR_Additionality.pdf	BCR	High school
/257/	BCR_Monitoring-Reporting-And-Verification	BCR_Monitoring-Reporting-And-Verification.pdf	BCR	High school
/258/	BCR_No-Net-Harm	BCR_No-Net-Harm.pdf	BCR	High school

ID	File Description	File Name	Author(s) format	Reference
/259/	BCR_Tool_Avoiding-Double-Counting	BCR_Tool_Avoiding-Double-Counting.pdf	BCR	High school
/260/	BCR_PD_Alcaravan_V	BCR_PDD_Alcaravan_V7.docx	CO2CERO	Completed the project
/261/	BCR_PDD_Alcaravan_V	BCR_PDD_Alcaravan_V8.docx	CO2CERO	Completed the project
/262/	BCR_PDD_Alcaravan_V	BCR_PDD_Alcaravan_V6.docx	CO2CERO	Completed the project
/263/	BCR_PDD_Alcaravan_V	BCR_PDD_Alcaravan_V6.pdf	CO2CERO	Completed the project
/264/	BCR_PDD_Alcaravan_V	BCR_PDD_Alcaravan_V7.pdf	CO2CERO	Completed the project
/265/	BCR_Template-GHG-Projects v2acitation environmental awareness	BCR_Template-GHG-Projects v2.0.docx	BCR	Completed the project
/266/	PDD_Alcaravan_Orinoquia_V	PDD_Alcaravan_Orinoquia_V2.docx	CO2CERO	Completed the project
/267/	PDD_Alcaravan_Orinoquia_V	PDD_Alcaravan_Orinoquia_V2.pdf	CO2CERO	Completed the project
/268/	PDD_Alcaravan_Orinoquia_V	PDD_Alcaravan_Orinoquia_V3.docx	CO2CERO	Completed the project
/269/	PDD_Alcaravan_Orinoquia_V3_Antiguo	PDD_Alcaravan_Orinoquia_V3_Antiguo.docx	CO2CERO	Completed the project
/270/	PDD_Alcaravan_Orinoquia_V4acitación environmental awareness	PDD_Alcaravan_Orinoquia_V4.1.docx	CO2CERO	Completed the project
/271/	PDD_Alcaravan_Orinoquia_V4acitación environmental awareness	PDD_Alcaravan_Orinoquia_V4.1_Spa.docx	CO2CERO	Completed the project

ID	File Description	File Name	Author(s) format	Reference
/272/	PDD_Alcaravan_Orinoquia_V	PDD_Alcaravan_Orinoquia_V4.docx	CO2CERO	Completed the project
/273/	PDD_Alcaravan_Orinoquia_V	PDD_Alcaravan_Orinoquia_V4.pdf	CO2CERO	Completed the project
/274/	PDD_Alcaravan_Orinoquia_V4_ (Eng	PDD_Alcaravan_Orinoquia_V4_ (Eng) (1).docx	CO2CERO	Completed the project
/275/	PDD_Alcaravan_Orinoquia_V	PDD_Alcaravan_Orinoquia_V5.docx	CO2CERO	Completed the project
/276/	Physiological aspects and use of Acacia mangium	Physiological aspects and use of Acacia mangium Willd. A revision.pdf	GIOVANNI REYES and others	High school
/277/	Yield Prediction for Acacia Mangium Plantations	Caguasango, S_2017_Acacia Mangium.pdf	National University of Colombia and others	High school
/278/	Eucalyptus Silvicultural Guide	Cenicafé_2006_Eucalyptus grandis - urograndis.pdf	National Federation of Coffee Growers of Colombia and others	High school
/279/	Forest Growth Estimator	CONIF_1999_Pinus - Eucalyptus.pdf	CONIF and Others	High school
/280/	BCR Removal Estimation Guidelines	Directrices-estimacion-remociones_BCR_v1.1.pdf	BCR	High school
/281/	Eucalyptus pellita: Amazonia Reforestation's red mahogany	Dombro,D._2010_Eucalyptus pellita.pdf	Dexter B. Dombro et al.	High school
/282/	Impact of two sources on physical-mechanical properties	Hamlet_2006_Eucalyptus.pdf	Hamlet Ruiz et al.	High school
/283/	Evaluation of Soil Dynamics in Plantations	Isos (2003) Acacia Mangium y Pinus caribaea.pdf	University of Panama and others	High school
/284/	Caribbean pine. Forest Technology Package	ITTO, 2017_Pinus caribaea.pdf	National Institute of Forests,	High school

ID	File Description	File Name	Author(s) format	Reference
			Guatemala and others	
/285/	EFFECTS OF PROVENANCE AND GENETIC VARIATION ON THE GROWTH AND STEM FORMATION OF EUCALYPTUS PELLITA IN COLOMBIA	Nieto et al (2016) E. Pellita.pdf Equation	Víctor Nieto et al.	High school
/286/	TECHNICAL FORESTRY SHIFTS FOR Pinus caribaea	Peraza_Pinus caribaea.pdf	University of Pinar del Río	High school
/287/	INFLUENCE OF EQUILIBRIUM MOISTURE CONTENT IN SORPTION AND DESORPTION ON THE HARDNESS OF FOUR TIMBER SPECIES PLANTED IN COLOMBIA	Pino et al. (2007). Denisdad Pinus caribaea.pdf	Andrea Pino et al.	High school
/288/	Tree Cubing	REFOCOSTA (2021)Cubing formula.xlsx trees	Refocosta	High school
/289/	FOREST MANAGEMENT AND EXPLOITATION PLAN FOR Acacia Mangium	Tacha & Moreno (2017). Acacia Mangium Forest Management and Use Plan Willd.pdf	Fredy Tacha and others	High school
/290/	Protocol for the national and subnational estimation of biomass - carbon in Colombia.	Yepes_2011_General.pdf	IDEAM and others	Official Secondary School
/291/	Contract for the provision of services	3_Technical assistance contract_ ENLACE ROJO SAS ..pdf	CO2CERO	Elaboration of the project
/292/	PILE social security payments	Contributions Galápagos.pdf	ECOLOGIC	Elaboration of the project
/293/	Working Hours in Colombia	Working Hours in Colombia.pdf	NOTINET SAS	High school
/294/	Current legal minimum monthly wage	Legal Minimum Monthly Wage Vigente.pdf	NOTINET SAS	High school

11.6 Annex 6. ONAC Accreditation

ANEXO DEL CERTIFICADO

INSTITUTO COLOMBIANO DE NORMAS TÉCNICAS Y CERTIFICACIÓN – ICONTEC
23-OVV-002
ACREDITACIÓN ISO/IEC 17029:2019
Alcance de la acreditación aprobado / Documento Normativo

Para la validación y verificación, especificadas en la norma internacional ISO/IEC 17029:2019, para:

ACTIVIDAD	SECTOR	Documento Normativo o Programa
ISO 14065:2020 **VALIDACIÓN/VERIFICACIÓN DE PROYECTOS GEI** ISO 14064-2: 2019 ISO 14064-3: 2019	Forestación y reforestación	– Programa VCS (Verified Carbon Standard). – Programa CERCARBONO (Certificadora de Carbono). – Estándar para el Mercado Voluntario de Carbono BCR Estándar
	Industrias Energéticas (fuentes renovables / no renovables)	– Programa VCS (Verified Carbon Standard). – Estándar para el Mercado Voluntario de Carbono BCR Estándar – Programa CERCARBONO (Certificadora de Carbono).
	Demanda energética	– Programa VCS (Verified Carbon Standard). – Estándar para el Mercado Voluntario de Carbono BCR Estándar – Programa CERCARBONO (Certificadora de Carbono).
	Transporte	– Programa VCS (Verified Carbon Standard). – Estándar para el Mercado Voluntario de Carbono BCR Estándar – Programa CERCARBONO (Certificadora de Carbono).
	Manejo y eliminación de residuos	– Programa VCS (Verified Carbon Standard). – Estándar para el Mercado Voluntario de Carbono BCR Estándar – Programa CERCARBONO (Certificadora de Carbono).

Sitios cubiertos por la acreditación
Sede principal: Avenida Calle 26 No. 69 – 76 / Torre 4 / Piso 9 y 10 – Edificio Elemento, Bogotá D.C., Colombia

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