

Gold Standard Design Certification Report

for

Real case VPA

"GS11707 VPA-02 Reforestation Project in Colombia 01" (GS12186)

Under PoA

"BaumInvest Forest Landscape Restoration Programme (GS11707)"

Methodology: Gold Standard Afforestation/Reforestation (A/R) GHG

Emissions Reduction & Sequestration Methodology (Version 2.0)

Report No: CCIPL1761/GS/VAL/BFLRP/20230207

Revision number: 05

Report Date: 21-08-2023



I. PROJECT DATA

Project title:	GS 11707 VPA-02 Reforestation Project in Colombia 01						
Project Areas:	Veraneo, Department of Vichada, Orinoquia region, Municipality of Cumaribo (Colombia)						
Host Country	Colombia	Colombia					
Registration No. / Date:	GS ID: GS12186 Scale: Large						
Methodology:	Gold Standard Afforestation/Reforestation (A/R) GHG Emissions Reduction & Sequestration Methodology (Version 2.0)	Standard estation/Reforestation GHG Emissions ction & Sequestration odology (Version 2.0) Sectoral Scope/Technical Area: 14/14.1					
Initial VPA-DD:	Version 1.0; Dated: 25/04/2023						
Final VPA-DD:	/ersion 1.2; Dated: 18/07/2023						

Party	Project participants	Party is considereda project participant (Y/N)	Contract party (Y/N)
Colombia (Host)	BaumInvest Colombia SAS, BaumInvest AG (CME)	Y	Y

II. DESIGN CERTIFICATION TEAM

Design Certification Team							R	ole				
Full name	Affiliation	Appointed for Sectoral Scopes (Technical Areas)	Team leader	Acting/trainee Team Leader	Local Expert	Team Member (Auditor)	Technical Expert	Observer	Trainee Auditor	Technical Reviewer	Expert to TR	Trainee TR
Isha Kapoor	India	14.1	х				х					
Vikash Kumar Singh	India	1.1, 1.2, 3.1, 4.1, 7.1, 13.1, 13.2, 14.1, 15			X (lang uage exper t and exten sive work exper ience in the regio n.	Х						



Lalit Mohan Saklani	India	14.1				Х			
Amit Anand	India	1.1, 1.2, 3.1, 8.1, 13.1, 14.1, 15					х		
Dr Bryan Conrad Foster	USA	14.1						х	



Audit Team Experience:

The team composition is linked to the methodology and local experience in the host country.

Isha Kapoor: She is a forestry graduate and has knowledge & skills for the land use & forestry sector. She is a qualified lead assessor and technical expert for TA 14.1 under CDM SS categorization. She has more than 3 years of work experience in GHG mechanism including development of standards and methodology for an Indian GHG program. Currently, she is working on a variety of land use & forestry projects under different GHG programs including GS, CDM and VCS. She has relevant ecological and biodiversity expertise for assessing Mangrove ARR projects and relevant agriculture, forestry and/or other land use experience in the region.

Vikash Kumar Singh: Qualified lead assessor and internal technical reviewer for design certifications and verifications GHG mitigation projects under CDM, VCS and Gold Standard (GS) and actively been involved in the design certification and verification and internal technical review of more than 300 GHG mitigation projects. He is qualified as technical expert for TA 1.1, 1.2, 3.1,4.1,7.1, 13.1, 13.2, 14.1 and 15 under CDM SS categorization. He has undergone extensive training in the design certification and verification of carbon offset projects including the accreditation requirements for the VVBs. Currently, he is employed with Carbon Check in the capacity of Executive Director and Compliance Officer. Vikash has e work experience on working on land use & forestry projects under GS, CDM and VCS projects globally and worked extensively in central and south American countries.

Lalit Mohan Saklani: He has done his post-graduation in forestry and has been working under different GHG programs including GS, VCS and ISO under sectoral scope 14.1. He has relevant knowledge & skills for the land use & forestry sector.

Amit Anand: He is the internal technical reviewer at CCIPL. He has completed his Bachelor of Science and Master of Science degrees in Environmental Management and has been involved in Clean Development Mechanism (CDM) for the last 17 years. He is an expert for Agriculture, Forestry & Other Land Use (AFOLU) in CCIPL and has shared his experience on international platforms such as International Workshop on Capacity Building Project for MRV of GHG Emission Reductions in Africa, Latin America, Central Asia, and Eastern Europe organized by Ministry of Environment, Japan – 13 to 14 February 2012. He also serves as Executive Director and Chief Executive Officer at CCIPL.

Dr Bryan Conrad Foster: Dr. Bryan is the doctorate holder in forestry. He is expertise in forest carbon design for developers of reforestation projects in the USA and improved forest management projects for developers in Canada and in Sweden. He also serves as Director at Foster Forestry and Environmental consulting, LLC, South Burlington, VT.



III. DESIGN CERTIFICATION REPORT

Status	Verification Phases
\times	Document Review
\times	On Site Assessment
\boxtimes	Follow up interviews
\times	Corrective Actions / Clarifications Requested
\boxtimes	Resolution of outstanding issues
\boxtimes	Full Approval and Submission for registration
	Rejected

Status	Distribution Conditions
\boxtimes	No distribution without permission from the Client or responsible organizational unit
	Limited Distribution
	Unrestricted distribution

Final Approval	
Date	22/08/2023
Approved by	Amit Anand
Designation	CEO
Signature	Imilio



ABBREVIATIONS

AGB	Above Ground Biomass
ARR	Afforestation, Reforestation and Revegetation
BEF	Biomass Expansion Factor
BGB	Below Ground Biomass
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CO _{2e}	Carbon Dioxide Equivalent
CL	Clarification Request
СМЕ	Coordinating Managing Entity
DPCR	Draft Performance Certification Report
GIS	Geographical Information System
KML	Keyhole Markup Language ¹
LULC	Land Use Land Cover
LULUCF	Land use, Land-use Change, and Forestry
DR	Document review
DVR	Draft Design certification Report
EI	External Individual
FA	Final Approval

¹ an XML notation for expressing geographic annotation and visualization within two-dimensional maps and three-dimensional Earth browsers.



FAR	Forward Action Request
FVR	Final Design certification Report
GHG	Greenhouse Gas(es)
IPCC	Intergovernmental Panel on Climate Change
IR	Internal Resource
KPI	Key Project Information
MP	Monitoring Period
MR	Monitoring Report
MUs	Modelling Units
QC/QA	Quality control /Quality assurance
SOC	Soil Organic Carbon
ТА	Technical Area
TR	Technical Review
VVB	Design certification & Verification Body



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1. Introduction

The CME, <u>BaumInvest AG</u> has appointed <u>Carbon Check (India) Private Ltd. (CCIPL)</u>, a GS VVB to perform an independent design certification of the GS real case VPA^{/01/} titled "GS 11707 VPA-02 Reforestation Project in Colombia 01" (hereafter referred to as "VPA") under registered PoA "BaumInvest Forest Landscape Restoration Programme" (GS11707).

This report summarizes the findings of the design certification of the VPA, performed on the basis of Gold Standard Afforestation/Reforestation (A/R) GHG Emissions Reduction & Sequestration Methodology (Version 2.0)^{/B01/}, GS PoA Requirements and Procedures^{/B01/} and subsequent decisions by the Gold Standard Secretariat, as well as criteria given to provide for consistent project operations, monitoring and reporting and compliance with host country criteria and Gold Standard specific criteria.

This report contains the findings and resolutions of the design certification and a design certification opinion on the real case VPA.

1.1 Objective

The purpose of a design certification is to have a thorough and independent assessment of the proposed VPA against the requirement of PoA DD^{/01/}, PoA Requirements and Procedures v2.0^{/B01/} and GS4GG Land Use & Forests Activity Requirements Version 1.2.1^{/B02/} in particular, the project's baseline, additionality, and compliance with relevant Gold Standard requirements and host country requirements. Gold Standard specific conditions are validated to confirm that the real case VPA design (as documented) is complete, reasonable and meets the stated requirements and identified criteria. Design certification is seen as necessary to provide assurance to stakeholders about the quality of the project and its ability to generate proposed amount of Verified Emission Reductions (VERs), during the crediting period.

1.2 Scope and Criteria

The scope is defined as an independent and objective review of the VPA^{/02/}. The VPA-DD^{/02/} is reviewed against the requirement of PoA DD^{/01/}, GS PoA Requirements and Procedures v2.0^{/B01/} and GS4GG Land Use & Forests Activity Requirements Version 1.2.1^{/B02/}and applicable decisions by the GS secretariat. The design certification team has employed a risk-based approach, focusing on the assessment of:

- ✓ Physical infrastructure, activities, technologies and processes of the VPA
- ✓ VPA's physical boundaries^{/02/15/16/},
- ✓ GHG sources, sinks and/or reservoirs^{/03/}.
- ✓ Growth and yield models/ CO₂ Fixation calculation^{/03/09/},
- ✓ VPA Stakeholder Consultation^{/10/},
- ✓ Compliance with PoA requirements including eligibility for inclusion of VPA^{/02/}
- ✓ Safeguarding Principles^{/02/08/},
- ✓ LUF risk and capacities^{/05/}
- ✓ Demonstration of baseline and additionality^{/11/} and
- ✓ Monitoring plan^{/02/18/}

The design certification is not meant to provide any consulting towards the CME. However, stated requests for clarifications and/or corrective actions may have been provided as input for improvement of the project design.

While carrying out the design certification, CCIPL determines if the VPA complies with the requirement



of PoA^{/01/}, GS4GG requirements^{/B01/}, specifically the applicability conditions of the selected methodology and also assesses the claims and assumptions made in the VPA-DD^{/02/}, other related templates and documents without limitation on the information provided by the CME.

On-site inspection and stakeholder's interviews have also been performed as part of the design certification process.

1.3 Level of Assurance

The VVB conducted the assessment in order to reach a reasonable level of assurance of conformance against the defined audit criteria and materiality thresholds within the audit scope. Based on the assessment by VVB, 06 (six) CARs, 06 (six) CLs and (00) FAR have been raised. Furthermore, 03 (three) CLs, 04 (four) OBS and 01 (one) FAR (which has been included by the VVB as CAR) has been raised during the SustainCERT preliminary review. All the findings has been satisfactorily closed.

Please refer to Appendix 1.

2. Methodology

The design certification consists of the following four phases:

- 1. Completeness check of the VPA-DD^{/02/} and other GS4GG A/R templates and requirements^{/B01/}.
- Review of project documentation (VPA-DD^{/02/}, SOPs, applied methodology^{/B01/}, applicable tools in particular attention to the frequency of measurements, QA/QC procedures and other relevant documents and regulations).
- 3. On-site inspection (including follow-up interviews with project stakeholders, when deemed necessary).

The On-site inspection and interviews assessment include the following:

- An assessment of the VPA design in line with the PoA DD^{/01/} & baseline and monitoring methodology^{/B01/}
- An assessment of baseline scenario & additionality.
- Review of VPA's eligibility of the PoA/01/B01/, GS LUF requirements/B01/.
- Review of VPA's compliance with DNH & SDG claims
- Review of permanence of GHG removal/^{/03/} including risk rating and measures
- Review of LSC (including SFR) and grievance mechanism^{/02/} including interviews with the relevant stakeholders
- Interview with relevant personnel to determine whether the operational and data collection procedures are implemented and in accordance with monitoring plan^{/05/} (for both carbon & SDG) of the PoA-DD^{/01/}.
- Review of assumptions made in calculating the GHG removal estimations^{/03/}.
- Assessment of QA/QC procedure in-line with the PoA-DD/01/ and methodology requirement.
- 4. Resolution of outstanding issues and the issuance of the Final Design Certification Report and Certification statement.

3. Means of Design certification

3.1 Document/ Document Review



List of all documents reviewed or referenced during the design certification is as below:

Sno.	Documents	Reference
/01/	PoADD	Version 6.1
, 51/	BaumInvest PoA-Design-Document v6.0 clean	(17/07/2023)
	 BaumInvest PoA-Design-Document_v6.0_trackchanges 	(11/01/2020)
	 BaumInvest_PoA-Design-Consultation-Report_v0.2 	
	BaumInvest PoA-Design-Document v6.1_clean BaumInvest PoA Design Desument v6.1_track	
/02/	Bauminvesi FOA-Design-Document_vo.1_track	Version 01
/02/		(25/04/2023)
	VPA DD	(20/04/2020)
		Version 1.2
		(19/08/2023)
/03/		Carbon
	Carbon fixation calculation sheet	calculation sheet
		v1.1, v1.2
/04/	Folder SOC	Soil organic
	 403_V1.0_0.7_LUF_AR Methodology_Soil Carbon 	carbon
	1001_CUL_V1 SOC supporting assumptions v1	
	Supporting literature	
/05/	Folder Risks template SGD tool	LUF risks &
	 430_V1.0_IQ_SDG-Impact-Tool_v1,v1.1 	capacities
	 BIAG_AR_LUF_Risks&Capacities_COL_GS12186_v0.2cle 	•
	an BIAC AD LLIE Biokos Consolition COL CS12196 v0 2tro	
	 DIAG_AR_LUF_RISKS&Capacities_COL_GS12100_V0.2018 ckchanges 	
/06/	Proof of project start date	02 nd May 2023
,	Acknowledgement project start date	02 May 2020
/07/	Commonly accepted forest inventory & management	-
(0.0.1	 Forest inventory guideline_EN_v1.3 	
/08/	Safeguarding principle assessment	Evidence for
	Biodiversity monitoring Colombia.pdf	safeguarding
	Reglamento Interno de Trabajo	principle
/00/	Ex-ante parameters	Evidence for
109/	06-02 IPCC Biomass Default Table	values used for
	 06-13_Montagnini_Piotto_Mixed plantations of native trees 	ex-ante
	 07-03 CATIE_2003_ArbolesCentroAmer 	calculations
	07-27 Silvicultura S.amara Peru	ouloulationio
	 U/-28 W000 S. amara glauca 07-30 Plantations as Carbon Sinks, Montagnini 1008 	
	08-01 J copaia	
	 08-15_Butterfield, R. 1995. Desarrollo de especies 	
	forestales en tierras bajas húmedas de Costa Rica	
	 08-41_Age_and_Long-term_Growth_of_Trees_in_an_Old- 	
	growin • 08-68 lacaranda consia dhb biomass beight	
	 08-83 Jacaranda copaia 	
	 09-07 Fichas_tcnicas_plantaciones_Selva_Baja 	
	 09-08 Calidad_de_sitio_de_cuatro_especies forestales 	
	09-09 Crecimiento D. odorata en dos sistemas plantacion	
	U9-18 Vallejo - Minga, modelos genericos de crecimiento 09-22 Anadenanthera percerina	
	 09-22_Anadenanthera peregrina 09-23 Anadenanthera peregrina 	
	09-24 terminalia ivorensis	
	 09-27_Report Flor Morado different species 	
	 09-51_Inferred longevity amazonian rainforest 	
	U9-52_A.peregrina in 40 years reforestation	
	V3-00_FED Report-ABG-estimation-techniques Winrock	
	09-07 h.alchorneoides-wood density	



	GlobalWoodDensityDatabase	
/10/	Records of LSC	Evidence for local
	 LSC-Report_Colombia_01_v1.1clean 	stakeholder
	 LSC-Report_Colombia_01_v1.1trackchanges 	consultation
	Folder_Sample of invitation media used Folder_Supporting decumentation	
/11/	Folder_Supporting documentation	On atial famouther an
/ 1 1/	Eligible area Veraneo zin file	Spatial forest/non
	 Project area Veraneo zip file 	forest assessment
	Report - BaumInvest El Placer - Final 230605	evidence
	Soil Map – Veraneo.zip file	
	Forest Cover 2010 30m - Veraneo	
/12/	Ownership of carbon credits	Evidence for
	I-PreReview_V1.1-Cover-Letter_GS12186_2023-05-02	carbon credits
	 Acknowledgement project partiel CO2 property 2023 01 03 Contract AC BiAG 2023 signed 	ownership
/13/	Certificate CME	Evidence for
,	Aktionärsregister-BICO_19.05.23	CMEship
	 BaumInvest AG_Commercial_Registry_11-05-2022 	omeomp
	HR-Auszug BICO_Camara de comercio_25.05.2023	
	HR-Auszug BICO_Camara de comercio_25.05.2023_ENG	
/14/	Land tenure	Evidence for land
	 Matricula_Grundbuchauszug El veraneo auf 	ownership
	BICO_11.11.2022	
	 Matricula_Grundbuchauszug El veraneo auf PLCO_14_14_2022_ENC_ 	
	BICU_11.11.2022_ENG PODER Veraneo	
/15/	GIS shapefiles	-
	Buffer_camino_vivero_Veraneo.zip	
	Buffer_Incendios_Veraneo.zip Comines_Veraneo.zip	
	Cursos de aqua zip	
	 Eligible area Veraneo.zip 	
	Infraestructure_Veraneo.zip	
	Project_area_Veraneo.zip	
/16/	Map of project area	-
/17/		Evidence for
, ,		project is not
	Declaration from PD	registered
	 PD declaration GS12186 Project not previously 	previously under
	registerea_signea	other GHG
		programs
/18/	SOP & monitoring manual	-
	 Forest inventory guideline_EN_v1.3 	
	Guideline for dealing with data uncertainty	
	Organizational chart_implementation_GS12186 Competences_Agrocaucho	
	Agrocuacho, short profile	
/19/	Evidence of the SDG of PoA and VPA	-
	Folder_SDG 1 and SDG 8	
1001	Folder_SDG 15	
/20/	LUF input & grievance mechanism	-
	 Ivianagement System Ivianual VU.2 SOP Continuous Input & Grievance Mechanism v1.0 	
/21/	No burning evidence	-
/00/	 No burning statement project partner 	
/22/	Forest management Plan	-
/23/	Baseline shrub biomass assessment	-
	 Folder, Sample points 	



r	— • • •	
	Folder_supporting doc	
	Baseline SOP Col_v1.0.pdf	
10.1.1	El Veraneo_baseline snrub biomass_v1.0, v1.1.xis	
/24/	Leakage evidence	-
	Leakage letter_veraneo	
(05)	PODER Veraneo	
/25/	Funding source	-
1001	Simple cost analysis.xis	
/26/	Docs submitted to Sustaincent	-
	• 501_V2.0_AR_GHGS_ODA-Declaration	
	$FOIII_VU.1_GS12186_2023-04-18$	
	• Registry-App-refinis-of-Ose_as-of-Aphi-	
	2019_Signeu_2023-04-13	
	 T-FIEREVIEW_V1.1-COVET-Letter_G512100_2023-03-02 T. DroBoviow, V1.1 Torma, and Conditional aigned 2022 	
	 T-Prekeview_V1.1-Terms_and_Conditions_signed_2023- 04.12 	
	04-15 T. DroBoviow, V/2 0. Droliminary, roviow, request	
	• I-FIEREVIEW_V2.0-FIEIIIIIIIary-leview-lequest-	
	10111_0311709_signeu_2023-04-25	
/27/	Proof of project lifetime	Confidential
1211	Contract between CME and other parties	Conndential
/28/	EIA (no EIA required evidence)	
/20/	LIA (IIO LIA required evidence)	-
	Decreto-1076-de-2015	
/29/	Biodiversity monitoring Colombia conducted by third party	28/06/2023
1201	(Senckenberg Forschungsinstitut und Naturmuseum)	20/00/2023
/B01/		65466
, 2017	GS4GG PoA Requirements & Procedures v2.0	Boquiromonto
	GS4GG Principles & Requirements v1.2	Requirements
	GS A/R Methodology V2.0	
/B02/	GS4GG GS LUE Activity Requirements v1 2 1	-
/B03/		
/003/	RECHIREMENTS v2 1	-
/B04/	CDM AR-Tool 16 v1 1 0	
/004/	GS4GG LUE AR Methodology Soil carbon tool v1.0	-
/B05/	Other GHG programs:	Other GHG
,200,	CDM: https://cdm.unfccc.int/Projects/index.html	Drogrammo
	VCS: https://registry.verra.org/app/search/VCS/All%20Projects	Fillyrainine
	Plan Vivo:	websites
	https://www.planvivo.org/pages/category/projects?Take=28	
/B06/	Holdridge, L.R. (1947). "Determination of world plant formations	-
	from simple climatic data". Science, 105 (2727): 367-8	
	Climatic data from: La Primavera meteorological station	
	(historic data 1991 – 2021) and Puerto Carreño meteorological	
	station (historic data 1991 – 2021). Source: https://es.climate-	
	data.org/america-del-sur/colombia/vichada/puerto-carreno-	
	3822/	
	• Corporinoquia Resolucion 200.41-11.1130 (2011):	
	https://corporinoquia.gov.co/images/docsPdf/20041111130.pd	
	f	
	 <u>https://www.oecd.org/corruption/colombia-oecdanti-</u> 	
	briberyconvention.htm	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 https://www.suin-\ 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 https://www.suin-_ juriscol.gov.co/viewDocument.asp?id=1695398#:~:text=LEY% 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 https://www.suin-_ juriscol.gov.co/viewDocument.asp?id=1695398#:~:text=LEY% 2079%20DE%201986%20%28diciembre%2030%29%20Por_ 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 https://www.suin-_ juriscol.gov.co/viewDocument.asp?id=1695398#:~:text=LEY% 2079%20DE%201986%20%28diciembre%2030%29%20Por %20la,conservaci%C3%B3n%20del%20agua%20y%20se%2 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 https://www.suin-\ juriscol.gov.co/viewDocument.asp?id=1695398#:~:text=LEY% 2079%20DE%201986%20%28diciembre%2030%29%20Por %20la,conservaci%C3%B3n%20del%20agua%20y%20se%2 Odictan%20otras%20disposiciones 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 https://www.suin-_ juriscol.gov.co/viewDocument.asp?id=1695398#:~:text=LEY% 2079%20DE%201986%20%28diciembre%2030%29%20Por %20la,conservaci%C3%B3n%20del%20agua%20y%20se%2 Odictan%20otras%20disposiciones https://rsis.ramsar.org/es/ris- 	
	 briberyconvention.htm https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO:112 00:P11200_COUNTRY_ID:102595 https://www.suin-\ juriscol.gov.co/viewDocument.asp?id=1695398#:~:text=LEY% 2079%20DE%201986%20%28diciembre%2030%29%20Por %20la,conservaci%C3%B3n%20del%20agua%20y%20se%2 Odictan%20otras%20disposiciones https://rsis.ramsar.org/es/ris- search/?f%5B0%5D=regionCountry_es_ss%3AAmerica%20L 	



•	http://reporte.humboldt.org.co/biodiversidad/2016/cap4/412/#s	
	eccion12	
•	ipcc_default_soil_classes_derived_from_the_harmon-	
	wageningen_university_and_research_51469.pdf	
•	https://hdr.undp.org/data-center/specific-country-	
	data#/countries/COL	
•	https://unfccc.int/sites/default/files/NDC/2022-	
	06/NDC%20actualizada%20de%25Colombia.pdf	
•	2006 IPCC GfNGGI_Grassland.pdf (page 27, table 6.4)	
•	IPCC LUCLUF, Good Practice Guidance for Land Use, Land-	
	Use Change and Forestry, Annex 3A.1 Biomass Default Tables	
	for Section 3.2 Forest Land	
•	Bernal et al. Carbon Balance Manage (2018)	



3.2 On-site inspection and follow-up interviews with project stakeholders

An on-site inspection has been performed by the members of the design certification team of Carbon Check from 08/07/2023 - 11/07/2023 at CME's office and sample plantation sites in Farm area namely Veraneo of Colombia. The project representatives and stakeholders interviewed were as:

SI. No.	Name (Organisation)	Date	Туре	Торіс
/ï/	Antje Virkus, Chief Executive Officer (BaumInvest AG)	08/07/2023 to 11/07/2023	 ☑ On-site ☑ Face to Face ☑ Telephone ☑ Email ☑ Skype 	 CME's roles and responsibilities. Baseline scenario. Sustainability and local stakeholders meeting. Project implementation.
/ii/	Barbara Magdalena San Martin (BaumInvest AG)	08/07/2023 to 11/07/2023	⊠ On-site ⊠ Face to Face □ Telephone □ Email □ Skype	 Future project plans. Organization structure, roles and responsibilities. Input and grievance mechanism Risk analysis DNHA Assessment Changes in organization structure
/iii/	Johann Thaler Carbon Consultant (mkaarbon safari)	08/07/2023 to 11/07/2023	 ☑ On-site ☑ Face to Face ☑ Telephone ☑ Email ☑ Skype 	 Ownership of land titles Ownership of carbon credits Employment contracts DNHA Assessment with respect to labour laws,
/iv/	Simon Mader (BaumInvest AG)	08/07/2023 to 11/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 minimum wage, working hours, non-discrimination, sexual harassment, anti- corruption Plantation techniques Training with respect to identification and protection of endangered / native appealed
/v/	Enrique Baresch (Legal representative of BaumInvest Colombia S.A.S)	08/07/2023 to 11/07/2023	 ☑ On-site ☑ Face to Face ☑ Telephone ☑ Email ☑ Skype 	species
/vi/	Nelson Robles (Agrocaucho Del Llano)	08/07/2023 to 11/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype ☑ On-site 	 Induction Training Employment contracts DNHA Assessment with respect to labour laws, minimum wage, working hours, non-discrimination, sexual harassment, anticorruption Plantation techniques Training with respect to identification and protection of endangered / native species Stakeholder consultation
			Face to Face	orievance mechanism



			Skype	 Baseline scenario Land procurement process Socio-economic impact of the project activity on local communities
/vii/	Nory Calcrio (Field workers, attended LSC)	10/07/2023	⊠ On-site ⊠ Face to Face □ Telephone □ Email □ Skype	 Employment generation Training Project implementation Continuous grievance mechanism LSC Feedback on the project Project design and implementation SOPs for plantation
/viii/	Luis Angel (Field workers, attended LSC)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism LSC Feedback on the project Project design and implementation SOPs for plantation
/ix/	Luis Seun Herrera (Field workers, attended LSC)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism LSC Feedback on the project Project design and implementation SOPs for plantation
/x/	Francisco Sono (Field workers, attended LSC)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism LSC Feedback on the project Project design and implementation SOPs for plantation
/xi/	Flor Mayur Cardenes (Field workers, attended LSC)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism LSC Feedback on the project Project design and implementation SOPs for plantation
/xii/	Paldo R.P. (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism



				 Environment, health and safety aspects including safety and personal protective equipment.
/xiii/	Marcos Rodriguez (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xiv/	Ton Alexanelobaer (Field workers)	10/07/2023	 ○ On-site ○ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xv/	Manuel Gaiter (Field workers)	10/07/2023	 ○ On-site ○ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xvi/	Osvaldo Ponare (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xvii/	Juan Isaias Cariban (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xviii/	Ovelio Sanchez (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xix/	Jose Luis (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face ☑ Telephone 	Employment generationTrainingProject implementation



			☐ Email ☐ Skype	 Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xx/	Marcos (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xxi/	Cantos (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xxii/	Kidev HG (Field workers)	10/07/2023	⊠ On-site ⊠ Face to Face □ Telephone □ Email □ Skype	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xxiii/	Wilson Ardilatlos (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xxiv/	Cesar Rodriguez (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.
/xxv/	Aldo Ardila (Field workers)	10/07/2023	 ☑ On-site ☑ Face to Face □ Telephone □ Email □ Skype 	 Employment generation Training Project implementation Continuous grievance mechanism Environment, health and safety aspects including safety and personal protective equipment.



Sampling Approach

N/A

3.3 Resolution of outstanding issues

The objective of this phase of the design certification is to resolve any outstanding issues (issues that require further elaboration, research or expansion) which have to be clarified/ corrected prior to final VVB's conclusions on the project design, monitoring plan and management system. In order to ensure transparency, a design certification protocol is completed for the project. The protocol shows in transparent manner criteria (requirements), means of design certification and resulting statements on verification of project against identified criteria.

The design certification protocol serves the following purposes:

- It organizes in a table form, details and clarifies the requirements, a GS project is expected to meet GS4GG requirements^{/B01/}.
- It ensures a transparent verification process where the VVB will document how a particular requirement has been verified.
- It ensures that the issues are accurately identified, formulated, discussed and concluded in the Design Certification report.

The design certification protocol consists of a table i.e., tables of findings and preliminary and final opinion of the VVB on every particular issue raised during the design certification process.

The findings of design certification process are summarized in tables with a standard format, as shown below:

CAR/ CL/FAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of CAR	Description of CAR/ CL/ FAR			
CME response Date: DD/MM/YYYY				
Documentation provided by the CME				
VVB assessment Date: DD/MM/YYYY			Date: DD/MM/YYYY	

In the above table, FAR shall reflect the forward actions initiated by the design certification team, if the VPA design, monitoring, reporting or any other aspect require attention and/or adjustment for the verification period.

Findings during the design certification can be interpreted as a non-compliance with GS criteria or a risk to the compliance.

Corrective action requests (CARs) are raised, in case:

- Non-conformities with the monitoring plan or methodology are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient.
- Modifications to the implementation, operation and monitoring of the registered VPA has not been sufficiently documented by the project participants.
- Mistakes have been made in applying assumptions, data or calculations of emission reductions which will impair the estimate of emission reductions.
- Issues identified in a FAR during design certification/previous verification(s) that are not been resolved by the project participant(s) to be verified during current verification.

Requests for clarification (CLs) are raised, if information is insufficient or not clear enough to



determine whether the applicable GS requirements have been met.

A forward action request (FAR) is raised during design certification to highlight issues related to project implementation/monitoring that require review during the subsequent verification of the VPA. FARs shall not relate to the GS requirements for issuance.

Areas of design certification of compliance	No. of CL	No. of CAR	No. of FAR	
General description of VPA	01	01		
Technical requirements a. Key project information b. GIS vector layer c. Uncertainty of LUF parameters d. Requirements for LUF smallholder & microscale project e. Spatial forest/non-forest assessment f. LUF input & grievance mechanism				
Eligibility of the VPA under approved PoA				
Legal ownership of products generated by the VPA and legal rights to alter use of resources required to service the project				
Location of VPA	01			
Technologies and/or measures				
Scale of the VPA				
Funding sources of VPA	02			
Application of approved gold standard Methodology (ies) reference of approved methodology (ies) a. Applicability of methodology (ies) b. VPA boundary		01		
Establishment and description of baseline scenario				
Demonstration of additionality	01	01		
Data and parameters fixed ex ante		01		
Ex-ante estimation of SDG impact	03			
Monitoring plan a. Data and parameters to be monitored b. Sampling plan c. Other elements of monitoring plan	01	-		
Duration and crediting period		01		
Safeguarding principles and gender sensitive assessment including assessment of appendix 1 of VPA-DD				
Stakeholder consultation a. Local stakeholder consultation b. Stakeholder feedback round c. Continuous input / grievance mechanism				
Eligibility and inclusion criteria for VPA inclusion				
LUF Additional Information				
LUF Risk and Capacities				
Total	13	07		

3.4 Internal quality control

The final design certification report has passed a technical review before being submitted to the project participant and SustainCert. A technical reviewer qualified in accordance with CCIPL's qualification



scheme for GS design certification and verification performed the technical review.

4. Design certification findings

The findings of the assessment are described in the following sections. The design certification criteria(requirements), the means of assessment are documented in detail in Appendix 1.

4.1 General description of VPA

Means of design certification	DR, OSV, I			
Findings	CL 01 and CAR 01 was raised, which I	nas been satisfactorily closed		
Conclusion	The proposed VPA-DD ^{/02/} , the "GS 1 Colombia 01", is the real case VPA that "BaumInvest Landscape Restoration P	1707 VPA-02 Reforestation Project in t will be included into registered PoA ^{/01/} , rogramme".		
	Based on the review of VPA-DD ^{/02/} , the proposed VPA consists of ecological restoration of 1,069 ha of planting area, which was former cattle pastures; the same was confirmed during on-site inspection and interviews ^{/i-xxv/} . The real case VPA is located on the department of Vichada, in the Orinoquia region, in the municipality of Cumaribo (Colombia) ^{/16/} .			
	 The main objects of the real case VPA are: mitigate climate change through long-term carbon sequestration through planted trees and regeneration of secondary forests. contribute to sustainable socio-economic development and poverty reduction through long-term employment in the remote, rural, and poorly developed eastern plains of Colombia. protect biodiversity by conserving natural habitats and improving habitat connectivity. 			
	The total project area of Veraneo is 1,711.7 ha, out of which 1,202 ha are eligible based on the forest/non-forest assessment. Within the eligible area, the planting area (ha) is estimated in 1,069 ha, based on the forest/non-forest assessment, and preliminary determined through technical assessments conducted during the farm site visit and after discounting infrastructure, roads and a 20 m. fire break alongside the plantable area. (This planting area is subject to changes and could end up being lower or higher).			
	The remaining 509.7 ha (non-eligible farm area) is occupied by forest remnants and small rivers and water creeks.			
	The assessment of the requirement of section 6.1.2 of the GS4GG Programme of Activity requirements and procedures v.2.0 ^{/B01/} are as follows:			
	Describe the present environmental conditions of the area planned for the Forestry and AGR VPAs, including the climate, hydrology, soils and ecosystems			
	Based on review of VPA-DD ^{/02/} , VVB confirms that CME has appropriately defined the present environmental conditions of the area planned for the Forestry VPAs; the verified details are as below:			
	Environment Condition			
	Topography	Flat areas with only sporadic		
		undulating slopes (with maximum		



	value of 5%)
Annual Precipitation	2,724 – 2,341 mm
IPCC climatic zone	Tropical wet
Elevation	140msl
Soil type within the eligible area Ferralsols (96%)	
	Acrisols (4%)

Describe the presence, if any, of rare and endangered species and their habitats:

Based on review of the VPA-DD^{/02/}, document review, the following threatened fauna species have been identified, by the CME, in the project area:

- Panthera onca (Jaguar)
- Leopardus pardalis (Ocelot)
- Ateles belzebuth (White bellied spider monkey)
- Myrmecophaga tridactyla (Giant anteater)
- Priodontes maximus (Giant armadillo)
- *Pteronura brasiliensis* (Giant otter)
- Caiman intermedius (Caiman)
- Geochelone denticulate (Morrocoy turtle)
- Podocnemis expansa (Charapa turtle)

VVB, during the on-site inspection, observed that the climate in the country is humid. The on-site inspection has been conducted in the month of July which is rainy season in the country.

Furthermore, VVB, during the stakeholder interviews/i-xxv/, has been informed that the project area under the real case VPA is moderately degraded grassland. The eligible project area is covered with grasses and solitary trees of different species which are going to be conserved. As confirmed by the CME, shrubs in the baseline inventory have been considered and discounted as a part of baseline emission. An IPCC default¹ of 16.1 t.d.m ha⁻¹ has been used for discounting the removal of grasses for the entire project area. The trees present on the project land before the project initiation, will be retained and will not be harvested. This approach is acceptable, as these standing trees will be tagged, as confirmed during the on-site inspection, and will not be a part of ex-post project verification (and measurements).

Describe the tree species, varieties, stand arrangements; describe, if applicable, the harvesting cycle and type (selective harvesting or rotation forestry) selected for the Forestry VPA

Based on review VPA-DD^{/02/} and on-site inspection interviews^{/i-xxv/}, VVB confirms that following 5 native and 1 non-native tree species are included in the real case VPA:

Sr. No	Native tree species		
1.	Anadenanthera peregrina		
2.	Dipteryx odorata		
3.	Jacaranda copaia		
4	Simarouba amara		
5.	Ochroma pyramidale		
	Non-native tree species		

¹ 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Table 6.4, Chapter 6, Grassland



6.	Terminalia ivorensis
υ.	
The growth been developed default values with the s that the e assessme	th model ^{/03/} for all the species, included in the real case VPA, has eloped by the CME, using appropriate literature data ^{/09/} and IPCC lues ^{/B06/} . VVB, based on the review of the species appropriateness ite as well the plausibility of literature reviews referred ^{/B06/} , confirms ex-ante carbon calculation ^{/03/} is deemed acceptable. The detailed ant of growth model can be referred to from section 4.13 of this report.
VVB has the carbor the whole VVB as conservat	noted that as per the ex-ante carbon calculation sheet ^{/03/} provided, a sequestered by <i>Ochroma pyramidale</i> has been considered as 0 for crediting period. This approach is appropriate and acceptable to the <i>Ochroma pyramidale</i> is a pioneer species and the approach is ive.
<u>Describe tl</u> if applicabl	ne measures and know-how that will be transferred to the host Party, e
Based on including t serve as a	the review of the real case VPA-DD ^{/02/} , reforestation techniques he integration of companion plants next to the tree seedlings will transfer of know to the host country.
Describe o enabling o Forestry a	or list the legal title(s) to the land, current land tenure and rights letermination of the owner of the GS VERs to be issued for the and AGR VPAs
Based on confirms t title/tenure Colombia " <i>Matricula</i> confirming uncontest VPA. VVB to BaumIr " <i>PODER</i> the land ti	the desk review ^{/02//14/} and on-site inspection/interviews ^{/i-xxv/} , VVB hat the CME, BaumInvest AG, has full and uncontested legal land of the project farm area "Veraneo" via its subsidiary BaumInvest SAS. VVB has reviewed the document <i>Grundbuchauszug EI veraneo auf BICO_11.11.2022_ENG.pdf</i> ^{*/14/} the ownership of the land title. Furthermore, the CME has full and ed legal ownership of the GS VERs to be issued for the real case has also reviewed the carbon waiver document from the farm owner twest AG. The legal correspondence has been reviewed through the <i>Veraneo.pdf</i> ^{*/14/} by VVB. Hence, VVB confirms that the evidence for the and carbon credit ownership is acceptable.
Refer to s	ection 4.5.
VVB, bas confirms t with secti procedure	ed on document review ^{/02/14/} , on-site inspection and interviews ^{/i-xxv/} , that the project description stated in the VPA-DD ^{/02/} is in compliance on 6.1.2 of the GS4GG Programme of Activity requirements and es v.2.0 ^{/B01/} .

4.2 Technical requirements

a. Key project information

Means of design certification	DR, OSV, I
Findings	
Conclusion	The proposed VPA is a large-scale project and is in compliance with the section 5.1 of GS4GG Programme of Activity requirements and procedures v2.0 ^{/B01/} .
	VVB, based on document review, confirms that all the information stated in the



VPA	-DD ^{/02/} on	cover	page, inc	luding	Key	Project Inf	ormation is in	line	with the
GS	template	and	section	5.2.1	of	GS4GG	Programme	of	Activity
requ	irements a	and pr	ocedures	v.2.0/B	01/				

b. GIS vector layer

Means of design certification	DR, OSV, I
Findings	CAR 04 was raised, which has been satisfactorily closed
Conclusion	As per the review of GIS shapefiles ^{/15/} , the forest/ non-forest analysis ^{/11/} has been conducted on the total VPA project area of 1,711.7 ha, which concludes 1,202 ha, as eligible area and 1,069 ha as plantable area. The remaining 509.7 ha (non-eligible farm area) is occupied by forest remnants and small rivers and water creeks. VVB, based on the review of the shapefile "Forest Cover 2010 30m – Veraneo" and wetland inventory from the Humboldt Institute in Colombia and Ramsar sites, as well as through the on-site inspection, confirms that the eligible area does not include wetlands and appropriately demonstrates the absence of any forest land, more than 10 years prior to the VPA start date. VVB, based on desk review, including the assessment of GIS shapefiles ^{/11/15/} (of project area, eligible area and planting area), confirms that the shapefiles and project boundary has been appropriately defined and are consistent with the information provided in the GS VPA-DD ^{/02/} and in compliance with Annex

c. Uncertainty of LUF parameters

Means of design certification	DR, OSV, I
Findings	
Conclusion	CME has submitted the guideline for dealing with data uncertainty ^{/18/} based on the Annex A-Uncertainty of LUF parameters from the Land use & forests activity requirements, v1.2.1 ^{/B02/} . The data uncertainty associated with the estimation of ex-ante and ex-post estimates to comply with the required target precision of 20% of the mean at a 90% confidence level required by the Gold Standard Certification. BaumInvest follows the three approaches to deal with data uncertainty associated with the estimation of ex-ante and ex-post estimates for the GS certification:
	 Approach 1: requires on-site measurements to directly document pre-project and project activity data. Approach 2: uses peer-reviewed publications to quantify baseline and project activity data. It needs to prove that the research results are conservative and applicable to the project site and management practice. Approach 3: applies default factors to quantify changes but a discounting factor (Uncertainty Deduction) must be applied if compliance with the uncertainty threshold of ±20% at a 90% confidence interval is not satisfied. Based on the review of ex-ante growth model^{/03/}, VVB confirms that Approach
	2 has been used by the CME for biomass calculation of all species that an uncertainty deduction following GS guidelines was taken into account and the same is deemed appropriate and thus acceptable to the VVB.



All other parameters for the carbon calculation such as area (as verified by reviewing the forest/non forest analysis^{/11/} and other legal contracts^{/12/}), default values^{/B06/} (wood density, root-to-shoot ratio etc.) have been checked by the VVB and found to be correct.

The arithmetic calculation was also reviewed and found to be correct. Based on the verified ex-ante carbon calculation spread sheet^{/03/}, the value of carbon removal works out to be 17.68 tCO₂e/year/hectare(after buffer), which in the opinion of VVB (based on its sectoral, regional expertise and literature review) confirms that the value is plausible and can be achieved if the project is implemented as designed.

Based on the assessment above, VVB confirms that the CME has appropriately demonstrated uncertainty analysis in compliance with ANNEX A of the GS4GG LUF Activity Requirements v1.2.1^{/B02/}.

d. Requirements for LUF smallholder & microscale project

Means of design certification	DR, OSV, I
Findings	
Conclusion	Not Applicable, since the real case VPA is large scale.

e. Spatial forest/non-forest assessment

Means of design certification	DR, OSV, I
Findings	CL 10 & CAR 04 was raised, which has been satisfactorily closed
Conclusion	VVB, based on the review of Forest/ Non-Forest Analysis report ^{/11/} , confirms that CME has appropriately conducted a forest/non-forest assessment to determine eligible areas to issue GSVERs in compliance with Annex C of the GS4GG Land Use & Forests Activity Requirements, version 1.2.1 ^{/B02/} .
	Based on the review of Forest/Non-Forest Analysis report ^{/11/} , multiple scenes of Sentinel-2 MSI and Level 1-C Imagery for 2022 has been used by the CME to conduct the spatial analysis. VVB confirms that CME has appropriately reported the type of remote sensing data (e.g., satellite, radar, spatial resolution) and source/s of the data and any relevant support documentation that helps in the replication and accurate assessment of the spatial analysis.
	 VVB confirms that the remote sensing scenes have been dated: i at least 10 years before the start date of the project, and ii at project start date
	Based on the review of Forest/Non-Forest Analysis report ^{/11/} in compliance with Annex C of the GS4GG Land Use & Forests Activity Requirements, version 1.2.1 ^{/B02/} , VVB, confirms that the following information/data have been reported in the VPA-DD ^{/02/} :
	i. Type of sensor used, spatial resolution, path/row, date of the scenes used



The sensors used for the tree cover data for 2022 come from random forest classification conducted on a Sentinel-2 MSI: Multispectral Instrument, Level-1C Imagery with a spatial resolution of 10-meter. The date of the scenes used is from 01-01-2022 to 10-11-2022.

ii. Description of the method and software used in the preprocessing and classification process

The software used for classification are Google Earth Engine & QGIS. The random forest classification has been compiled using the Optical Mosaic recipe function at sepal.io. No pixel filter was applied based on "Shadow". The coordinate reference system (CRS) used is EPSG: 32619 - WGS 84 / UTM zone 19N.

iii. Description of how issues with areas under clouds/shadows were dealt with:

In the case of scenes that date 10 years before the project start date, the Project Developer should conservatively consider all areas under shadows/clouds as not eligible

In the case of scenes at project start date, if the start date is more than 1 year before the start of Preliminary Review, then the Project Developer should conservatively consider all areas under shadows/clouds as not eligible. In such cases, a Project Developer could prove eligibility by conducting a ground- truthing exercise to verify the land-cover for areas under clouds/shadows. The Project Developer shall report on how the ground-truthing was conducted, and which areas were visited (only visited areas can be included in such analysis; sampling is not allowed)

To address the cloud problem, cloud mask for individual scenes have been produced using the quality assessment band present in Landsat data products. The cloud free area is obtained using the different Landsat scene preferably same time of the year to obtain information from whole study area. VVB, confirms that the project start date (02/05/2023) is not more than 1 year before the start of Preliminary Review (22/05/2023).

Clearly map all polygons covered by shadows/clouds and present a table with the areas of each polygon and the total area in hectares

Not applicable, as the cloud free area has been obtained using the Landsat scene.

Develop a combined mask for the areas under clouds/shadows in both scenes and apply it to the scenes proceeding to the classification

To address the cloud problem, cloud mask for individual scenes have been produced using the quality assessment band present in Landsat data products. The cloud free area is obtained using the different Landsat scene preferably same time of the year to obtain information from whole study area.

Include a map of the classified scenes (10 years before and at project start date) with the forest/non-forest classes before and after the application of the selected forest definition as MPU (resampling).

The shapefiles for the year 2010 has been provided. VVB has reviewed the shapefiles and compared it against the latest shapefiles for year 2022 for determining the forest/non-forest classes before and after the application of the selected forest definition as MPU.



iv. Classify the scenes with the original spatial resolution. Then, resample the classification products for each scene. The final noneligible areas within the project area will be the cumulative forest areas from both classified scenes. Generate a shapefile of the eligible area.

The mapped areas forest and non-forest areas have been resampled at approximately 45.470 km² to get the best land cover classification possible. The original resolution has been kept as 10 meter and the resampling has been done at 20-meter resolution for the year 2022. The shapefiles of the eligible area has been reviewed by VVB which are deemed valid.

v. Include a description of how the accuracy assessment was conducted (e.g. how the assessment points were selected and how the confusion matrix was prepared and interpreted). The accuracy must be calculated and reported on class-by-class and for the overall classification. The accuracy assessment of the classification must be conducted using ground-truth data (surveys) or remote sensing imagery of higher resolution of that used for the classification. The minimum overall accuracy for each class should be 90%.

The accuracy assessment of forest, non-forest map has been assessed using the out of bag error and user's accuracy method. The sample point left out of the random forest classification has been used for the accuracy analysis. The accuracy assessment of the 2022 land cover classification are detailed in table 3 of the report. The out of bag error identified was 1.6%.

The overall accuracy of forest and non-forest areas are 95% as mentioned in table 3 of the report $^{\prime 11\prime}$

vi. Provide a shapefile with the points used for the accuracy assessment.

VVB, based on the review of shapefiles^{/15/}, confirm that points used for the accuracy assessment have been appropriately defined.

vii. A final table indicating the total area (in hectares) of the project area, modelling units (planting area), and the 10% set aside for the conservation area.

The total area derived from the spatial forest/non-forest assessment^{/11/} is 1,711,7 ha. Out of which 1,202 ha is eligible area and 509.7 ha area is not eligible for planting occupied by forest remnants, small rivers and water creeks. There is only one modelling unit for the real case VPA with an area of 1,069 ha which is the planting area. There is no 10% area set aside for the conservation as the whole project is a conservation project.

viii. The use of already classified remote sensing products coming from official sources (national/government institutions) is allowed. If this data is used, then the Project Developer shall explain the type of remote sensing imagery used in that analysis, the method, and the accuracy as reported by the original source.

The European Space agency (ESA) worldcover 10m 2021 product was used as a label for training samples. The sentinel-1 images has been used in the land cover classification. The details for the absolute orbit number, mission data take Id & product unique identifier has been provided in the Appendix 1 of the "Report-BaumInvest El Placer-Final 230605"/11/.



ix. When using publicly available remote sensing products that show tree cover instead of forest cover (i.e. Global Forest Watch), then a Project Developer should prove that the selected tree cover percentage is representative of the DNA or national host or FAO forest definition, as necessary.
The defined MPU is applied in the project according to requirements listed in <u>CDM: Full list of DNAs (unfccc.int)</u> for the host country. References used in the Forest/ Non-Forest Analysis ^{/11/}
 Global 2010 Tree Cover (30 m) GLAD (umd.edu) ESA WorldCover 2021 UNEP-WCMC and IUCN (2022), Protected Planet: The World Database on Protected Areas (WDPA) [On-line], Cambridge, UK: UNEP-WCM

f. LUF input & grievance mechanism

Means of design certification	DR, OSV, I
Findings	
Conclusion	VVB, based on on-site inspection interviews/i-xxv/ and document review/01//02//20/, confirms that the Grievance Expression Process box has been kept at BaumInvest house in the farm Veraneo and El Placer/El Tuparro Community center. Furthermore, VVB has interviewed the farm manager and confirms that the input and grievances are checked at least once per month.
	The BaumInvest Latin America S.R.L (BILA) is responsible for reviewing all inputs within 4 weeks of receipt. The inputs and grievances received are documented and stored in the CME database which has been verified by VVB during the on-site inspection. The feedback received are digitalized by project GS ID, location and date. Accordingly, the actions and response from the CME are also recorded in the database. Based on the above assessment, VVB confirms that the LUF input & grievance mechanism has been appropriately demonstrated in line with ANNEX D of GS4GG LUF Activity requirements v1.2.1 ^{/B01/} .

4.3 Eligibility of the VPA under approved PoA

Means of design certification	DR, OSV, I				
Findings					
Conclusion	VVB, based on document review ^{/01/02/} and on-site inspection/interviews ^{/i-xxv/} , confirms that the CME has appropriately demonstrated eligibility of VPA. The detailed assessment of eligibility of VPA is in line with the requirement of section A.1.1 of GS VPA-DD ^{/02/} is as follows:				
	As per section 3.1.1 of GS4GG Principles & Requirements/ ^{B01/}				
	Eligibility Criteria	Compliance			
	Types of Projects:	Based on the desk review/01/02/ and			
	Eligible projects shall include physicalon-siteinspection/integrationaction/implementation on the ground.VVB confirms that the project of th				



Pre-identified eligible project types	Afforestation/ Reforestation project.
are identified in the Eligibility	
Principles and Requirements section.	
Location of Project:	VVB has reviewed the farm boundary
Projects will be located in Costa Rica	shapefiles ^{/15//16/} and confirms that the
and Dominican Republic (batch 1)	project is located in Veraneo farm in
and Colombia Honduras Danama	the department of Viebede close to
and Colombia, Honduras, Panama,	
Belize and Guatemala (batch 2).	the small village of El Placer/El
	I uparro and is in compliance with the
	PoA-DD ^{/01/} .
Project Area, Project Boundary and	Based on review of section F of the
Scale:	VPA-DD ^{/02/} and shapefiles ^{/15/16/} , VVB
The Project Area and Project	confirms that the project area and
Boundary shall be defined. Projects	project boundary has been
may be developed at any scale	appropriately defined. Furthermore,
although certain rules, requirements	the project scale is large scale as the
and limitations may apply under	expected GHG removals are 24 289
specific ActivityRequirements Impact	$tCO_{2}e/vear^{/02/03/}(excluding buffer)$
Quantification Methodologies and	which deems to be valid by \/\/R and
Products Requirements	are in compliance with section 5.1 of
In order to avoid double counting the	the DoA requirements and
Project chall not be included in any	
Project shall not be included in any	
other voluntary or compliance	
standards programme unless	CIVIE has provided the declaration
approved by Gold Standard (for	confirming that the project has not
example through dual certification).	been registered with any other
Also, if the Project Area overlaps with	voluntary or compliance schemes.
that of another Gold Standard or other	VVB, further confirms this through
voluntary or compliance standard	checking the public website of other
programme of a similar nature, the	emission trading programs. (CDM/
Project shall demonstrate that there is	VCS/Social Carbon /Plan Vivo)/B05/.
no double counting of impacts at	
design and performance certification	
(for example use of similar technology	
or practices through which the	
potential arises for double counting or	
misestimation of impacts amongst	
projects)	
Host Country Requirements:	Based on the on-site inspection
Projects shall be in compliance with	interviews/i-xxv/ and desk review/01//02/
applicable Host Country's legal	VVB confirms that project is in
environmental ecological and social	compliance with applicable Host
regulations	Country's regulations The CME
	follows internal company policy which
	follows internal company policy Which
	OFCD anti hribani registration. An
	DECD anti-bridery convention has
	been signed by host country and is
	TOILOWED by CME. The VPA is in
	compliance with the Law 2 of 1959
	(Forest code), Law no 79-Rules for



	water conservation, Article 1 and
	Corporinoquia Resolucion 200.41-
	11.1130 issued in 2011.
Contact details	Based on the on-site inspection
As part of the Project Documentation	interviews/i-xxv/ and desk review/01//02/,
the Project Developer shall provide (i)	VVB confirms that the CME has
name and (ii) contact details of all	provided the contact and legal
Project Participants; and in case of an	registration details in Appendix-1 of
organisation (iii) the legal registration	the GS PoA-DD ^{/01/} and Appendix-2 of
details and (iv) documentation by the	GS VPA-DD ^{/02/} which is valid and
governing jurisdiction that proves that	appropriate.
the entity is in good standing(defined	
as being a legal or otherappropriate	
entity registered in or allowed to	
operate within the required jurisdiction	
and with no evidence of insolvency or	
legal/criminal notices placedagainst it	
or any of its Directors).Gold Standard	
retains the right (at its own discretion)	
to refuse use of the Standard where	
reputational concerns are highlighted.	
Legal Ownership:	VVB, based on on-site interviews/i-xxv/
Full and uncontested legal ownership	and supporting evidence/12//13//14/,
of any Products that are generated	confirms that the CME has provided
under Gold Standard Certification,	the legal ownership details in section
(for example carbon credits) shall be	A.1.2 of the VPA-DD/02/. VVB has
demonstrated. Where such	reviewed the "HR-Auszug
ownership is transferred from project	BICO_Camara de
beneficiaries this must be	comercio_25.05.2023_ENG" ^{/13/} and
demonstrated transparently and with	confirms that the ownership of the
full, prior and informed consent	project is with BaumInvest Colombia
(FPIC). Note that for certain Project	S.A.S which is a subsidiary of
types there is a requirement for full	BaumInvest AG. Furthermore, the
and uncontested legal land	carbon waiver letter/12/14/ has also
title/tenure to be demonstrated. These	been provided by the CME which
are contained within specific Activity	provides full and uncontested legal
or Product Requirements. All projects	ownership of any products that are
shall immediately report to Gold	generated under Gold Standard
Standard any land title/tenure	Certification.
disputes arising.	
Other Rights:	Not applicable as the CME has
As well as legal title and	demonstrated legal uncontested
ownership, the Project Developer	ownership through the evidence.
shall also demonstrate where	
required uncontested legal rights	
and/or permissions concerning	
changes in use of other resources	
required to service the Project (for	
example, access rights, water rights	
etc.). Any known disputes or	
contested rights must be declared	



immediately to Gold Standard by the	
Project Developer and resolved prior	
to further project implementation in	
affected areas.	
Official Development Assistance (ODA) Declaration: All Project Developers applying for project activities located in acountry	The ODA declaration form ^{/26/} from VPA implementer has been reviewed by VVB confirming that there is no diversion of ODA. This has been
named by the OECD Development Assistance Committee's ODA recipient list and seeking Gold Standard Certification for carbon credits shall declare the Official Development Assistance (ODA) support. The Project Developer shall follow the GHG EmissionsReduction & Sequestration Product Requirements and submit the declaration at the time of Design	further confirmed during the on-site interviews/i-xxv/.
Certification.	
As per section 2 of GS4GG Land	Use & Forests Requirements ^{/B02/}
Eligible project types:	Based on the on-site inspection/
Eligible project types are	interviews/i-xxv/ and desk review ^{01/02/} ,
Afforestation & Reforestation	VVB confirms that the project is an
Projects (A/R) and Agriculture	Afforestation & Reforestation Project
Projects (AGR).	(A/R) which involves plantation of 5
	native and 1 non-native tree species.
No Deforestation:	Based on the on-site inspection/
The eligible area shall not meet the	interviews/i-xxv/ and desk review/02/11/,
definition of forest 10 years before	VVB confirms that the eligibility of the
project start date and at project start date.	project area (planting area) has demonstrated by a remoteforest/non-
	forest analysis/11/ through different
	satellite images at the Project level.
	Hence, VVB confirms that eligible
	area does not meet the definition of
	forest prior to 10 years of project start
	date. It has been further confirmed by
	reviewing the shapefiles for the year 2010 ^{/15/} .
In the case when the eligible area	Not applicable
has been deforested during the last	
10 years prior to project start date,	
the eligibility of the project shall be	
determined by Gold Standard as	
part of the Preliminary Review:	
The Project Developer shall provide	
evidence that the deforestation	
activity has not taken place with an	
intention to implement project activities that generate Gold Standard	



Certified SDG Impact Statements	
and/or Products, such as GSVERs.	
Double counting:	VVB, based on review of VPA-DD ^{/02/} ,
Projects issuing GSVERs with a	confirms that the GS VERs are not
vintage of 2021 or later and which are	used towards an NDC or domestic
used i) towards an NDC or domestic	climate change target other than that
climate mitigation target other than	of the host country nor used under
that of the Host Country; II) under	CORSIA.
CORSIA shall conform to the GHG	The declaration (17) has been provided
Emissions Reduction and	The declaration in has been provided
- Appex A Appex A requirements are	counting of the VPA
not applicable for projects generating	counting of the VEA.
GS VERs which do not fall under the	
abovementioned uses	
Fligible A/R projects:	VVB based on review of VPA-DD ^{/02/}
Can include planting trees	and on-site interviews/i-xxv/, confirms
Can include single- species	that the project activity includes
plantations.	plantation of site-adapted 5 native and
Can apply all silvicultural	1 non-native tree species (adapted)
systems. e.g., conservation	and applies conservation forest (no
forests (no use of timber);	use of timber) activities. Thus, the
forests with selective	VPA is eligible and in compliance with
harvesting;rotation forestry	the section 2 of the GS4GG land use
All projects can include	& forestry requirements/B02/.
agriculture (agroforestry) or	
pasture (silvi-pasture)	
activities	
FSC Dual Certification	Not applicable
Secured Titles:	VVB, based on the on-site inspection
For all project participants, the	interviews ^{/-xxv/} and desk
following information and evidence	review ^(01/02/13) , confirms that CME
shall be provided:	(Bauminvest AG) through its
rai Namo and contact details	aubaidiam. Daumalmuraat Calamabia
(b) Each antity's logal registration	subsidiary BaumInvest Colombia
(b) Each entity's legal registration	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land
(b) Each entity's legal registration number and documentation by the	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights or carbon sequestration rights
(b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing AND	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project Further
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the project area, AND 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the project area, AND ii. hold an uncontested legal land title 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the project area, AND ii. hold an uncontested legal land title for the Project Area, AND 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the project area, AND ii. hold an uncontested legal land title for the Project Area, AND iii. own the rights for timber and non- 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: must own the CO2 user rights or carbon sequestration rights for the project area, AND hold an uncontested legal land title for the Project Area, AND own the rights for timber and non- timber forest products for the project 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the project area, AND ii. hold an uncontested legal land title for the Project Area, AND iii. own the rights for timber and non- timber forest products for the project area, AND 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the project area, AND ii. hold an uncontested legal land title for the Project Area, AND iii. own the rights for timber and non- timber forest products for the project area, AND iv. hold all necessary permits to 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .
 (b) Each entity's legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing. AND I For the duration of the crediting period the Project Developer: i. must own the CO2 user rights or carbon sequestration rights for the project area, AND ii. hold an uncontested legal land title for the Project Area, AND iii. own the rights for timber and non-timber forest products for the project area, AND iv. hold all necessary permits to implement the project (planting 	subsidiary BaumInvest Colombia S.A.S has legal ownership of the land and products, namely the CO ₂ user rights, or carbon sequestrationrights generated by the Project. Further, CME has provided contact details and legal registration details in Appendix 2 of GS VPA-DD ^{/02/} .



harvesting permits, etc.), AND v. participate in the financing of the	
project.	
Safeguarding Principles & Requirements: The Project Developer shall conduct the SafeguardingPrinciples Assessment following Safeguarding Principles &Requirements and Risks & Capacities Guideline assessed for the Project Area, taking into account likely issues in the context of the Project Region.	Refer to Assessment of Safeguarding Principles in Appendix 1 of this report.
Protected Areas: A minimum of 10% of the total Project Area shall be identified and used to protect or enhance the biological diversity following High Conservation Value (HCV) approach.	As per the VPA-DD ^{/02/} , the 10% area set aside conservation area is not applicable as the whole project is for conservation. The designated protected areas are located within the project area and are managed by the project developer. VVB, based on the review of the VPA- DD ^{/02/} , Forest Management Plan ^{/22/}
	and GIS shapefiles, confirms that the project does not include any harvesting and is following the "conservation forest" silviculture system, which is managed by project developer. These planting areas have been
	verified with GPS coordinates and shapefiles ^{/15/} . Planting areas has been planted with site adaptive 5 native and 1 non-native (adapted) trees species with the purpose of conservation.
Buffer zones for water bodies: The Project Developer shall maintain a buffer zone of 15 meters for water bodies on both sides of anypermanent or temporary water bodies such as lakes streams	Based on the on-site inspection interviews ^{/i-xxv/} and desk review ^{/15/} , VVB confirms that buffer zone has been maintained for water bodies which includes all existing native trees will be kept, no logging activities no
rivers, wetlands, etc., Irrigation channels are excluded from this requirement.	usage of fertiliser and pesticides, no usage of heavy machinery and no cropping are allowed. In case trees are being planted, these are going to be native tree species.
Stakeholder inclusivity:	Based on the on-site inspection
The Stakeholder Consultation shall be conducted prior to the projectstart	interviews/i-xxv/ and document review/02/, VVB confirms that the



date. The Project Developershall refer	project complies with the Gold
to Stakeholder Consultation	Standard Stakeholder Consultation
Engagement Requirements for further	and Engagement Requirements
details.	(version 2.0)/B03/. The stakeholder
	consultation has been conducted on
	15/04/2023 and 21/04/2023 before
	the project start date i.e., 02/05/2023.
Crediting period:	Based on the review of section C.2 of
The crediting period shall be a	the GS VPA-DD/02/, VVB confirms the
minimum of 30 years and maximum50	crediting period of the VPA is of 40
years. The crediting period starts either	years i.e., 02/05/2023 to 01/05/2063.
with the Project Start Date or three	
years prior to the date of Project	
Design Certification,	
whichever occurs later	
Additionality:	Refer assessment of (Section 4.11).
Any Project shall demonstrate	
additionality as per the Principles &	
Requirements, or GHG Emissions	
Reduction and Sequestration Product	
Requirements, as	
applicable.	

4.4 Legal ownership of products generated by the VPA and legal rights to alter use of resources required to service the project

Means of design certification	DR, OSV, I
Findings	
Conclusion	In compliance with section 6.1.2 I of the GS4GG Programme of Activity requirements and procedures v.2.0 ^{/B01/} and section 2.1.9(c) of the GS4GG LUF Principles & Requirements v1.2,1 ^{/B02/} , CME has appropriately defined the section A.1.2 of the GS VPA-DD ^{/02/} .
	i. In line with the template instructions, VVB has assessed the section as follows. <u>Full and uncontested legal ownership of all Products that</u> <u>are generated</u> <u>under Gold Standard Certification (where such</u> <u>ownership is transferred</u> <u>from project beneficiaries this must be</u> <u>demonstrated transparently and be</u> <u>discussed during local</u> <u>stakeholder consultations</u>)
	As per section A.1.2 of the GS VPA-DD ^{/02/} ,
	"The CME BaumInvest AG, Talstraße 30, 79102 Freiburg, GERMANY has the full and uncontested legal ownership of the products that are generated under Gold Standard Certification, namely the CO2 user rights, or carbon sequestration rights generated by the VPA. The CME BaumInvest AG has full and uncontested legal land title/tenure of the project area via its subsidiary BaumInvest Colombia S.A.S. No potential project partners beyond BaumInvest Colombia S.A.S. have the legal right on the project or project areas, or any rights on the carbon credit certificates generated by the present project, or any other project managed and/or implemented by BaumInvest AG".



VVB, based on the evidence provided ^{/12/} , confirms that the legal ownership of all products generated under Gold standard certification lies with the CME i.e., BaumInvest AG.
ii. Legal rights concerning changes in use of resources required to service the Project (e.g water rights)
Not applicable.
iii. Full and uncontested legal land title/tenure required to implement the Project (e.g., A/R projects, see LUF Activity Requirements)
As per the section A.1.2 of the GS VPA-DD ^{/02/} , "The CME BaumInvest AG has full and uncontested legal land title/tenure of the project area via the legal entity BaumInvest Colombia S.A.S which is a 100% subsidiary of the VPA implementer BaumInvest AG."
VVB, based on the evidence for purchase agreement of the farm ^{/14/} confirms that the legal land title of farm "Veraneo" lies with the BaumInvest AG via its subsidiary.

4.5 Location of VPA

Means of design certification	DR, OSV, I
Findings	CL 10 was raised, which has been satisfactorily closed
Conclusion	Based on the review of the section A.2 of the GS VPA-DD ^{/02/} and document review ^{/15//16/} , the VPA is located in farm area namely <i>Veraneo</i> in the department of Vichada in Colombia, in the central north-east of the municipality of Cumaribo, close to the small village of EI Placer/EI Tuparro. Furthermore, VVB verified the geo-coordinates of the farm area included within the VPA during the field visit.

4.6 Technologies and/or measures

Means of design	DR, OSV, I
Findings	
Conclusion	As per section A.3 of the GS VPA-DD $^{\prime02\prime}$, the project aims at restoring forest
	landscapes through targeted reforestation with site-adapted native tree
	species and one non-native species, and/or human assisted or natural
	regeneration.
	Furthermore, the project objective is to plant 1,069 ha with 5 native and one
	non-native site adapted tree species. The planting also includes mixed
	planting design, that includes "Heliofitas efimeras, Ephemeral heliophytes"
	(Pioneer), "Heliofitas durables, Durable heliophytes" (Non-pioneer) and
	"Esciofitas, Sciophytes" (Shade tolerant species).
	The 841 trees/ha is the initial planting density. Two types of spacing are
	implemented: 4x4 m between the "heliofitas efimeras" and "heliofitas


durables" species and 4x2 m between the "heliofitas efimeras" and "heliofitas durables" and "esciofitas" species.			
Based on desk review ^{/02/} and on-site inspection/interviews/i-xxv/, VVE confirms that following tree species included in project:			
Sr. No	Native tree species	Common name	Ecological group
1.	Anadenanth era peregrina	Yopo Negro	Sciophytes (Esciofita)
2.	Dipteryx odorata	Sarupio	Sciophytes (Esciofita)
3.	Jacaranda copaia	Pavito	Durable heliophytes (Heliofita durable)
4	Simarouba amara	Machaco	Durable heliophytes (Heliofita durable)
5.	Ochroma pyramidale	Balsa	Ephemeral heliophytes (Heliofita efimera)
	Non-native tree species	Common name	Ecological group
6.	Terminalia ivorensis	Framine	Durable heliophytes (Heliofita durable)

4.7 Scale of the VPA

Means of design certification	DR, OSV, I
Findings	



Conclusion	VVB confirms that the VPA is a "large scale" (> 16,000 tCO2e/yr) as the
	expected average emission removals is 24,289 tCO ₂ e/year. This is as per
	section 5.1 of Programme of activity Requirements and Procedures
	v2.0 ^{/B01/} .

4.8 Funding sources of VPA

Means of design certification	DR, OSV, I
Findings	CL 06 & CL 07 was raised, which has been satisfactorily closed
Conclusion	Based on document review and on-site inspection interviews/i-xxv/, VVB confirms that the project is privately funded by the CME, BaumInvest AG and there is no public funding or ODA/26/ involved in this project.
	to demonstrate that the proposed A/R activity generates no financial benefits other than VER related income.

4.9 Application of approved Gold Standard Methodology (les) and/or Demonstration of SDG Contributions

Methodology (ies) reference of approved methodology (ies)

Means of design certification	DR, OSV, I
Findings	
Conclusion	 Based on the review of section B.1 of the GS VPA-DD^{/02/}, CME has appropriately provided references of all methodologies and tools used which are as follows: GS AR GHG Emissions Reduction & Sequestration Methodology v2.0^{/B01/} A/R Methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities", Version 01^{/B04/} LUE A/R Methodology Soil Carbon Tool v1 0^{/B04/}

Applicability of methodology (ies)

Means of design certification	DR, OSV, I			
Findings	CL 04 was raised, which has been satisfa	actorily closed		
Conclusion	VVB, based on desk review ^{/01/02/} and on-site inspection interviews ^{/i-xxv/} , confirms that the CME has appropriately demonstrated eligibility of methodology requirements. The detailed assessment of eligibility of methodology is in line and provided in section B.2 of GS VPA-DD which is as follows:			
	As per section 2 of GS A/R Methodology, Version 2.0/B01/			
	Methodology requirements	Assessment of compliance		



1. The proposed project apply Gold	Based on desk review/01/02/ and on-
Standard for the Global Goals	site inspection interviews/i-xxv/, VVB
Principles & Requirements and all other	confirms that GS4GG principles
associated and referenced documents.	and requirements/B01/B02/B03/B04/ and
	all associated and referenced
	documents have been applied by
	the CME.
2. Projects that include the planting of	Based on desk review/02/11/15/ and
trees on land that does not meet the	on-site inspection interviews/i-xxv/,
definition of a forest at planting start are	VVB confirms that the project is
eligible to apply this methodology. The	being implemented on lands that
project area shall meet all of the	were former grasslands used for
requirements below for this	extensive cattle farming and does
methodology to be applicable for the	not meet the definition of forest 10
calculation of CO ₂ -certificates from	years before project start date and
the project.	at project start date and is therefore
	considered to be eligible. This has
	been further confirmed through
	reviewing the spatial forest/non-
	forest assessment report/11/.
3.Projects can apply all silvicultural	Based on desk review/02/ and on-
systems: Conservation forests (no use	site inspection/interviews/i-xxv/, VVB
of timber), Forests with selective	confirms that VPA has applied the
harvesting and rotation forestry.	"conservation forest" silvicultural
	system with crediting period of 40
	years which is intended by CME to
	donate the project area to the
	nearby Tuparro National Park. The
	project does not include any
	harvesting and is being
	implemented for conservation
	purpose only.
4. Project Areas shall not be on	VVB, based on the review of the
wetlands	Resultados de la búsqueda
	Servicio de Informacion sobre
	Sitios Ramsar, confirms that the
	VPA project area does not meet the
	criteria or is located under land
	classified as wetland. This has also
	sonsing applying by M/P The
	prodominant acils on the clicitie
	planting area are Earrolable
	Acricols which are not clossified as
	wotland by IPCC/806/ Eurtharman
	We have also confirmed it through
	reviewing the Pameer sites and
	Poporte Humbodt for wetlando/R06/
	Reports \neg unbout for wetlands ^(b00) .



5. Project Areas with organic soils shall	VVB, based on the review of GS
not be drained or irrigated (except for	VPA-DD ^{/02/} , confirms that the
irrigation for planting).	project area under this VPA does
	not contain organic soils. The soils
	in the project area are Ferralsols
	and Acrisols which are not
	classified as organic soil. This has
	been further confirmed by VVB
	through reviewing the "IPCC
	default soil classes derived from the
	Harmonized World Soil Data
	Base" ^{/B06/} .
6. Soil disturbance (through ploughing,	Based on the assessment above,
digging of pits, stump removals,	VVB confirms that the project area
infrastructure, etc.) on organic soils	under VPA does not include
shall be in less than 10% of the area	organic soils or soil types can be
that is submitted to certification (not	classified as LAC soils.
10% of the entireproject area).	
7. The most likely scenario without the	In compliance to section 3 of GS
project (baseline scenario) shall be	A/R Methodology ^{/B01/} , CME
defined for the project area. This	appropriately demonstrated
scenario shall not show any significant	baseline scenario for the project
increase of the Baseline biomass ('tree'	area in section B.4 of the VPA-
and 'non-tree').	DD ^{/01/} . Refer section 4.11 of this
	report.

VPA boundary

Means of design certification	DR, OSV, I				
Findings	CAR 02 was raised	l, which has	been satisfactori	ly closed	
Conclusion	Carbon Pools				
	Based on the review of GS VPA-DD ^{/02/} and compliance with section 3 of the Gold Standard Afforestation/Reforestation (A/R)GHG Emissions Reduction & Sequestration Methodology, version 2.0 ^{B01/} , VVB has reviewed the project boundary carbon pools and emissions as follows: Carbon Pools				
	Carbon PoolsIncludesBaseline (CO2 fixation)Project scenario 				
	Tree Biomass	Abovegr ound	Stem, branches, bark	Yes	Yes
		Belowgr ound	Tree roots	Yes	Yes



	Abovegr	Grass, herbs,	Yes	No
	ound	etc.		
Non-tree	Belowgr	Roots of	Yes	No
biomass	ound	grass, herbs,		
		etc.		
Soil		Organic	No	Yes
		material		
Harvested wood	(timber &	Furniture,	No	No
energy wood)		construction		
Litter & Lying dea	ad-wood	Leaves small	No	No
		fallen		
		branches,		
		lying dead		
		wood		
Other emissions:	N ₂ 0 emissi	ions from the ferti	liser use has	been accounted
for the years of a	pplication.	The calculations	has been inc	orporated in the
provided ex-ante	carbon calc	ulation sheet ^{/03/}	which has be	en reviewed by
VVB and are valid				
Overall, in the opi	nion of VVI	B proiect bounda	rv is correctly	v defined and in
compliance with th	e applicable	e methodology ^{/B01}	[/] and GS requ	uirements ^{/B01/B02/} .

4.10 Establishment and description of baseline scenario

Means of design certification	DR, OSV, I
Findings	
Conclusion	As per the GS VPA-DD ^{/02/,} the baseline scenario has been determined by using A/R CDM 'Combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities' (version 01) ^{/B04/} . The most likely land-use scenario in the absence of the Project - or baseline scenario - would be the maintenance of pastureland (through recurrent fires) to keep the economic value of the farm. VVB has assessed the historical maps provided in the forest/ non-forest assessment ^{/11/} and confirms the same. The basel–ne scenario has also been witnessed and confirmed by the VVB during the on-site inspection. (Refer section 4.11).

4.11 Demonstration of additionality

Means of certification	design	DR, OSV, I
Findings		CL 07 & CAR 03 was raised, all of which has been satisfactorily closed
Conclusion		Additionality Option 2- Positive list



The methodology used in the project activity is GS A/R methodology version 2.0. Additionality has been demonstrated through the section 3.1.16 of Land use & forests activity requirements v1.2.1.		
(8	a) The <u>project</u> is located in a Less Developed Country (LDCs) or in a region with a recent <i>UNDP Human Development</i> <i>Indicator</i> below 0.8.	
(1	b) The <u>project</u> does not intend to create a forest for the commercial use of the timber or non-timber forest products AND	
(0	c) The <u>project</u> activities will not be mandatory by any law or regulation, OR if it is mandatory, it shall demonstrate that these laws or regulations are systematically not enforced AND	
(4	d) The planting area is planted with a minimum of 5 different native tree species in mixed stand, covering a minimum of 50% of the planting area.	
a)	Based on the review of the UNDP Human Development Index for 2021 (latest published data) ^{/B06/} , VVB confirms that the score is 0.752. Thus, the requirement of UNDP Human Development Indicator below 0.8 is satisfied.	
b)	VVB, based on review of VPA-DD ^{/02/} and on-site interviews ^{/i-xxv/} , confirms that the project does not include harvesting of trees for commercial use and is developed as a conservation forest with plantation of site adaptive 5 native and 1 non-native tree species.	
c)	VVB, based on own research, confirms that there are currently no laws enforcing the restoration activities of forest landscape. The applicable laws has been assessed in section 4.3 of this report.	
d)	VVB, based on forest management plan and VPA-DD ^{/01/} , confirms that the VPA includes plantation of five native and one non-native tree species as mentioned in section 4.6 of this report in mixed stands, covering 100% of the planting area. This has been also confirmed by VVB during the on-site inspections.	
Overall o	conclusion:	
VVB cor the posit activity r	nfirms that the proposed VPA meets the requirements (a), (b), (c) of tive list and requirement (d) of the section 3.1.16 of Land use & forests requirements v1.2.1 which makes the VPA additional.	

4.12 Data and parameters fixed ex-ante

Means o	f DR, OSV, I
design	
certification	
Findings	CAR 02 was raised, which has been satisfactorily closed



Conclusion	Based on the review of the VPA-DD ^{/02/} , the data and parameters fixed ex ante a				
	as follows:				
	Data and	Value applied	Assessment of Compliance		
	parame				
	ters				
	fixed				
	ex ante				
	Biomass	Anadenathera	VVB confirms that the BEF value of 1.5 for		
	Expansion	peregrina- 1.431	Tropical broadleaf forest type has been		
	Factor (BEF)	Dipteryx odorata- 1.5	taken from IPCC LUCLUF, Good Practice		
		Jacaranda copaia-	Guidance for Land Use, Land-Use		
		1.392	Change and Forestry, Annex 3A.1		
		Simarouba amara-	Biomass Default Tables for Section 3.2		
		1.431	Forest Land. Furthermore, the BEF value		
		Terminalia ivorensis-	of 1.431, 1.392 & 1.431 for the remaining		
		1.5	species is valid and has been cross		
		Ochroma pyramidale-	checked by VVB ^{/09/} .		
		1.5			
	Root to	Anadenathera	VVB confirms that mean of RTS ratio of		
	shoot ratio	peregrina- 0.318	0.42 for secondary tropical/sub-tropical		
	(RTS)	Dipteryx odorata- 0.42	vegetation type has been taken from IPCC		
		Jacaranda copaia-	LUCLUF, Good Practice Guidance for		
		0.207	Land Use, Land-Use Change and		
		Simarouba amara-	Forestry, Annex 3A.1 Biomass Default		
		0.318	Tables for Section 3.2 Forest Land.		
		Terminalia ivorensis-	Furthermore, the RTS values for the		
		0.42	remaining tree species is also valid and		
		Ochroma pyramidale-	has been cross checked by VVB against		
		0.42	the source provided ^{/09/} .		
	Carban	0.5	As non-section $\mathbf{D} \in \mathcal{D}$ of the VDA $\mathbf{D}\mathbf{D}^{(0)}$		
	Carbon	0.5	As per section B.6.2 of the VPA-DD ¹⁰²¹ ,		
	fraction for		default value of carbon fraction for tree		
	tree		biomass i.e., 0.5 t C/tom has been used		
	biomass (tQ(talas)		as per GS A/R GHG Emissions Reduction		
	(tC/tam)		& Sequestration Methodology, Version		
	Conversion		2.0 ²⁰ which is valid and appropriate.		
	factor 'C' to	44/12 1002/10	44/12 has been taken for conversion from		
	'CO ₂ '		the GS A/R GHG Emissions reduction		
			Reduction & Sequestration Methodology.		
			version $2.0^{/B01}$, which is valid and		
			appropriate.		
	Baseline	23.6 tCO ₂ /ha	VVB confirms that the value has been		
	non-tree		calculated through the default biomass		
	biomass:		stock present on grassland for Tropical-		
	grassland		Moist & Wet IPCC climate zone under		
			table 6.4 of the 2006 IPCC Guidelines for		
			National Greenhouse Gas Inventories/806/.		
			The value calculated through the default		
			value is valid and appropriate.		



Baseline	CF) 0.47 tC; (Rs) 0.40;	VVB confirms that the default value of
non-tree	(BDRsf) 0.10;	biomass (aboveground) t.ha of 196t/ha
biomass:	("bFOREST") 196	has been taken for Colombia region from
default	t.d.m/ha	Table 3A.1.4, IPCC GPG-LULUCF
values for		2003 ^{/B06/} .
shrubs		
Use of	0.005 tCO ₂ /kg of	VVB confirms that the applied value has
nitrogen (N)	nitrogen (N) fertiliser	been obtained from the section 3.8.3 of
feriliser:		the document "GS
deduction		LUF_AR_Methodology-GHGs-emission-
discount		reduction-and-sequestration-
(tCO ₂ /kg)		methodology" which is valid and
		applicable.

4.13 Ex-ante estimation of SDG impact

Means of design certification	DR, OSV, I			
Findings	CL 01, 02 & 05 was raised, all of which has been satisfactorily closed			
Conclusion	As per the VPA-DD ^{/02/} , VVB has assessed the compliance of section B.6 in line with GS VPA-DD ^{/02/} template instructions as follows:			
	Sustainable Development Assessment of SDG Impact Goals Targeted Impact			
	1- End poverty The net benefit of SDG 1 will be quantified as the number of employees with long-term employment contracts subject to social security contributions and wages above the national minimum wage of Colombia (who worked at least 3 years for the company), minus the number of employees in the baseline scenario.	VVB, based on the on-site inspection interviews ^{/i-xxv/} and document review ^{/02/} , confirms that an average of 2 jobs per year will be generated according to the conditions for the rest of the crediting period.		
	8 – Decent work and economicgrowth The net benefit of SDG 8 will be quantified as the number of of employees with i) fulfillment of labor rights, independently of the employment type (temporary, full- time or part-time), ii) assisting trainings in safe and security at work, iii) assisting trainings in other working-related relevant areas, and iv) with safety equipment appropriate for the specific working position generated as a result of the	VVB, based on the on-site inspection, interviews ^{/i-xxv/} and document review ^{/02/} , confirms that the project implementation will lead to generate employment promoting economic growth with up to 25 jobs for the crediting period.		



project, minus the number in the baseline scenario	
13- Climate Action The outcome for SDG 13 will be quantified as CO2 sequestration by applying the methodology "GS A/R GHG Emissions Reduction & Sequestration Methodology, version 2.0". The net benefit is the difference between the quantified CO2 sequestration in the project scenario minus the quantified CO2 sequestration in the baseline situation.	Based on the review of section B.6.4 of VPA-DD ^{/02/} and CO ₂ fixation spreadsheet ^{/03/} , VVB confirms that the estimated GHG removals from the project, calculated as 971,568 tCO ₂ e for 40 years with annual average 24,289 of tCO ₂ e/year ^{/03/} (excluding buffer) are appropriate and valid. Leakage: VVB, based on on-site inspection interviews and the letter provided "Leakage letter_Veraneo", confirms that no leakage was caused by the project. The farm has been abandoned since 2011 and no livestock rearing has been done after that.
	Other emissions: The emissions from the use of nitrogen fertilisers has been accounted and deducted from the total estimated removals for the years of application i.e., 2023 till 2026. The deduction of 0.005tCO ₂ per kg of nitrogen has been done as per the section 3.8.3 of the "Gold Standard Afforestation/Reforestation (A/R) GHG Emissions Reduction & Sequestration Methodology, v2.0". Total deduction of 472 tCO ₂ e has been done which is valid and has been cross verified by the VVB in the provided ex-ante carbon calculation sheet ^{/03/} .
15- Life on Land The net benefit of the SDG 15 will be quantified as: - the difference between target and baseline scenario for hectares (ha.): reforested/afforested and protected as forest conservation areas the increment on the number of fauna species based on a continuous biodiversity monitoring and/or biodiversity indexes	VVB, based on the on- site inspection interviews/i-xxv/ and document/02/ review, confirms that 1,069 ha will be afforested with the site adaptive five native and one non-native(adapted) tree species. Along with that the project is expected to increase the population of both amphibian and reptiles, increment in biodiversity and increment on the concurrence of IUCN Red List status species within the project area. Based on the provided biodiversity report/29/, VVB confirms that a total of 36 species including 14 species of amphibians and 22 species



of reptiles has been documented. The
species has been classified as LC
(least concern) and VU (vulnerable)
according to the IUCN conservation
status.

VVB confirms that the ex-ante carbon estimations has been calculated following the Gold Standard Afforestation/Reforestation (A/R) GHG Emission Reduction & Sequestration Methodology, Version $2.0^{/B01/}$. The detailed estimations have been reviewed from the document "Carbon fixation_COL01_v1.1".

Year	Baseline (tCO2e/year)	Project estimate	Net benefit
Year 1	26,088	24,466	-1,622
Year 2	27	24,466	19,551
Year 3	27	24,466	19,551
Year 4	27	24,466	19,551
Year 5	0	24,466	19,572
Year 6	0	24,466	19,572
Year 7	0	24,466	19,572
Year 8	0	24,466	19,572
Year 9	0	24,466	19,572
Year 10	0	24,466	19,572
Year 11	0	24,466	19,572
Year 12	0	24,466	19,572
Year 13	0	24,466	19,572
Year 14	0	24,466	19,572
Year 15	0	24,466	19,572
Year 16	0	24,466	19,572
Year 17	0	24,466	19,572
Year 18	0	24,466	19,572
Year 19	0	24,466	19,572
Year 20	0	24,466	19,572
Year 21	0	24,113	19,290
Year 22	0	24,113	19,290
Year 23	0	24,113	19,290
Year 24	0	24,113	19,290
Year 25	0	24,113	19,290
Year 26	0	24,113	19,290
Year 27	0	24,113	19,290
Year 28	0	24,113	19,290
Year 29	0	24,113	19,290
Year 30	0	24,113	19,290
Year 31	0	24,113	19,290
Year 32	0	24,113	19,290



Year 33	0	24,113	19,290
Year 34	0	24,113	19,290
Year 35	0	24,113	19,290
Year 36	0	24,113	19,290
Year 37	0	24,113	19,290
Year 38	0	24,113	19,290
Year 39	0	24,113	19,290
Year 40	0	24,113	19,290
Total	26,168	971,568	755,995
Total number		40 years	
of crediting			
years			
Estimated			
Annual Average			
over the	-		
crediting period		24,289	18,900

The baseline estimated includes the carbon stock in the existing grassland and shrub, and a discount due to the use of fertiliser.

VVB, during the on-site inspection interviews^{/i-xxv/}, has reviewed the shrub baseline inventory^{/02/} prepared by the CME to account the baseline shrubs in the eligible area. The sample plots were selected from a randomised population of all parcels of baseline shrub biomass plots and CME has sampled around 16 baseline shrub biomass plots with shrubs to reach to the desired statistical precision of 20%.

The approach is deemed acceptable, by the VVB, for the entire planting area of 1,069 ha.

VVB has checked the methodology^{/B03/} applied for the baseline inventory and found that this methodology is widely used in the region for inventory. VVB has reviewed the methodology^{/B03/} and found it robust based on its sectoral expertise. During the on-site inspection, the persons were interviewed, and found to be competent to perform the standardised process as per the applied methodology of inventory.

During the course of on-site inspection, VVB has performed its own measurements at 4 sample sites (where ground clearance did not take place) at the time of visit, and found the measurements were done accurately and no material discrepancy was found and thus CME's field measurements was acceptable to the VVB. Furthermore, VVB visited 12 reference regions (in the adjacent area having same climatic and edaphic conditions and pre-project land use scenario) to further verify the plausibility of values arrived for baseline shrubs as arrived from the inventory. The details of nearby sites visited as reference region are as follows:

- 1. La Revancha
- 2. El Tamboral
- 3. Melgar
- 4. Punta Hermosa
- 5. Moriche solo
- 6. Taparitas



The CME has considered only shrubs in the baseline inventory and discounted them as a part of baseline emission. An IPCC default² of 16.1 t.d.m ha⁻¹ has been used for discounting the removal of pastureland for the entire project area. Furthermore, the CME does not involve the removal of existing tree (from pre-project scenario) and hence, is not discounting the same. This approach is acceptable, as these standing trees will be tagged, as confirmed during the on-site inspection, and will not be a part of ex-post project verification (and measurements).

The CME has also provided a report of baseline inventory^{/23/} (with spread sheet) and the calculation of the same, 453.47 tCO₂e, was found correct and thus acceptable to the VVB. In summary, VVB confirms that CME has correctly calculated and considered baseline emission on the account of standing shrub.

The ex-ante calculation for AGB has been done through the allometric equations from variety of data sources (Chave 2005_1, Chave 2005_h, Chave 2014, Brown 1997, ICRAF, Brown 1989_dbh, Brown 1989_h), based on forest type "Tropical wet forest", followed by outlier analysis for each species. The statistical precision test done after the outlier analysis confirms that the obtained AGB value is within the 20 % precision level as demonstrated in the carbon calculation spreadsheet^{/03/}.

VVB, based on the on-site inspection interviews^{/i-xxv/} and document review^{/02/03/}, confirms that the removal rate of 17.69 tCO2e/ha/year is conservative and appropriate. This was validated based on the assumptions (such as plantation per hectare, considering planting design (spacing and other factors), mortality and not adding pioneer species, species specific wood densities and annual increment of different tree species and allometric equations used from various peer reviewed literature) taken in the ex-ante growth model. Furthermore, based on the review of literature study Bernel *et al.*, 2018^{/B06/}, VVB has observed that the growth rate for broadleaf tree species for tropical humid climates falls in the range of 20-25 tCO₂/ha/yr (Figure 4). Furthermore, as mentioned in table 2 in the mentioned literature, for humid climatic region in South America, the removal rate for the first 20 years has been calculated as 18.8 tCO₂/ha/yr. In opinion of VVB, the value of carbon removal per hectare is plausible and thus acceptable.

Assessment of SOC

The present assessment justifies the selection of variables given in the "LUF AR Methodology Soil Carbon Tool" excel calculator for the determination of soil organic carbon matter (SOC): soil stratum (climatic region and soil type), and pre-project activities (land use, management and input).

Climatic region

According to the IPCC climatic zones, the project area is in a "tropical, wet" region. Thus, this was the climatic region selected in the "LUF AR Methodology Soil Carbon Tool" calculator, since it is the most appropriate

² <u>2006 IPCC Guidelines for National Greenhouse Gas Inventories, Table 6.4, Chapter 6, Grassland</u>



definition given the possible climatic regions in the excel tool. The area is
characterized by an average annual precipitation of 2,724-2,341 mm, and
average annual temperatures between 24.6 – 27.1 °C, and a dry season
between 3 – 4 months1.

Soil type

in the "LUF AR Methodology Soil Carbon Tool" calculator for soil types: • "LAC soils" were selected for a stratum covering 1,069 ha.

Based on the soil type information obtained from ISRIC - World Soil Information (which can be displayed at soilgrids.org), the eligible project area is located in two different soil types (see Table 1). Acrisols and Ferralsols cover together the total farm eligible area of 1,202 ha.; these soil types are classified as "LAC soils" (see table 3 in "ar-am-tool-16-v1.1.0", and IPCC default soil classes derived from the Harmonised World Soil Data Base).

CME only account for 1,069 ha for calculations purposes since this is the estimated planting area (ha) based on the forest/non-forest assessment and preliminary determined through technical assessments conducted during the farm site visit and after discounting infrastructure, roads and a 20 m. fire break alongside the planting area. Therefore, the total eligible area estimated to be planted is 1,069 ha., and not the 1,202 ha. resulting from the "Forest/non-forest analysis report".

Based on the review of ex-ante carbon fixation spread sheet and SOC calculation spread sheet (in the template-403_V1.0_0.7_LUF_AR Methodology_Soil Carbon Tool_COL_v1), it is confirmed that PP has provided sufficient justification for the application of AR-Tool 16 in assessing land degradation. PP has demonstrated land degradation in compliance to tool through direct visual field evidence of selected indicators of land degradation; the area being categorized as "moderately degraded". Furthermore, VVB confirms the calculation of SOC is correct and appropriate and the verified value of SOC is 0.33 tCO₂/hectare and 353 tCO₂/year for the entire area.

In summary, VVB confirms that CME has correctly calculated and considered baseline emissions and Project emissions and in compliance with section 3.3 of applied methodology/^{B01/}.

4.14 Monitoring plan

Means of	DR, OSV, I		
design			
certification			
Findings			
Conclusion			
	Data and	Value applied	VVB Assessment of
	parameters to		Compliance
	bemonitored		
	SDG 1- End poverty/targe	et 1.2	
	Number of employees with	The baseline scenario is	VVB, based on the on-site

a. Data and parameters to be monitored



long-term employm contracts subject to so security contributions a wages above the natio minimum wage Colombia (who worked least 3 years for company)	ent zero, as not jobs were cial created prior the implementation of the project activity. The net of benefit is the difference at between the target number of employees with long- term employment contracts, and the baseline scenario. The project value is 2. The baseline scenario is 0 (as no jobs were created prior the implementation of the project activity). See project assessment and estimated values on "430_V1.0_IQ_SDG- Impact-Tool_v1.1.xlsx"	inspection interviews ^{/i-xxv/} and SDG impact tool, confirms that the average value of 2 employment per year is predicted for the crediting period. VVB has reviewed the supporting evidences and confirms that the project activity fulfills the goals of SDG 1 ^{/19/} .
SDG 8 – Decent work	and economic growth	
The outcome of SDG 8 be quantified as number of employees w i) fulfillment of labor righ independently of employment ty (temporary, full-time parttime), ii) assist trainings in safe a security at work, assisting trainings in ot working-related relev areas, and iv) with saf equipment appropriate the specific work position, generated as result of the project	will The baseline scenario is the zero, as not jobs were ith: created prior the implementation of the project activity. The net benefit is the difference or between the target number of employees with safe and decent working iii) conditions, disaggregated by gender and migrant status, generated as a result of the project, and for the baseline number. Project values are medium/high (around 20) on the first year, and decrease until 2 at the end of the crediting period. See project assessment and estimated values on "430_V1.0_IQ_SDG- Impact-Tool_v1.1.xlsx" The baseline scenario is 0 (as no safe and decent jobs were created prior the implementation of the project activity).	VVB, based on the on-site inspection interviews ^{/i-xxv/} , confirms that in the initial years around 25-20 jobs has been created due to more labour intensive work and will stabilize later to 2 jobs for the rest of crediting period. VVB has reviewed the supporting evidences and confirms that the project activity fulfills the goals of SDG 8/19/.
		V//D boood on the on site
Emission reductions natural carbon remov	/ 22.72 tCO ₂ e/ha/year als	INSPECTION INTERVIEWS



through reforestation of		document review ^{/02/03/} ,
former pastureland		confirms that a total
measured in t CO2e		estimation removal of
/ha/year		$755,995, tCO_{2}e$ (including
, na year		buffer) and an average
		annual removal of 18,000
		tCO-co/voor (including buffer)
		for 40 year of crediting period
		ior 40 year or crediting period
		tCO ₂ e/na/year Is
		conservative and
		appropriate. The assessment
		for the same can be referred
		from section 4.13 of this
		report.
	Entimation of aminging	V//D has reviewed the sec
fertilizer (tCOce/year)	base on the following	ante carbon calculation shoot
	nlanned annlication	and confirms that the
	2023· 301 tCO₂	calculated value for each
	2020.0011002 2024: 27 tCO ₂	vear of application is valid
	2027.27 tCO_2	The assessment for the
	2020. 27 tCO2	same can be referred from
		section 4.13 of this report
SDG 15 Life on Land / tag	rget 15 2	
Hectares (ha) of degraded	1 069 ha	VVB based on the on-site
pastureland reforested	afforested/reforested	inspection interviews/i-xxv/ and
with predominantly native		review of KMI files ^{/15/}
tree species		provided confirms that
		1 069 ha of planting area will
		be planted under the VPA
		with site adaptive native and
		non-native tree species
SDG 15 Life on Land / tar	get 15.5	non native tree species.
Number of herpetofauna	The inventory of the	The field survey data has
and the number of	herpetofauna for the	been assessed from
threatened species of	baseline scenario resulted	biodiversity report ^{/29/} and
hernetofauna present in	in a total of 36 amphibian	VVB has further reviewed the
the project area	and rentile energies	"Biodiversity contract
	recorded during the survey	Seckenber COI "/08/19/
	neriod in the five project	demonstrating that the
	within the savannah and	biodiversity monitoring bas
	forest project proper 18	been conducted for the V/DA
	species were found in the	areas in Colombia and will be
	savannah and 23 species	conducted regularly after
	in the remanent forcet	project implementation
	areas Only 5 species	
	were found in both	
	savannah and forest	
	areas (See "Riodiversity	
	monitoring Colombia ndf"	
	monitoring Colombia.pdf)	



	See project assessment and estimated values on "430_V1.0_IQ_SDG- Impact-Tool_v1.1.xlsx"	
Stakeholder mitigation m	easures	
Invest in a fire	-	As per the VPA-DD/02/, the
management plan that		project will employ a forest
includes training for		ranger in place that can
workers and the		quickly react to a potential
community to be able to		fire. A training on how to
control the fire and		react in the event of a forest
mitigate the danger.		fire will be given. This has
		been further verified from
		review of forest management
		plan ^{/22/} and SOPs ^{/18/} .

b. Sampling plan

Means of design certification	DR, OSV, I	
Findings		
Conclusion	 Based on the review of the evidence, the forest inventory guideline^{/07/} includes the following points for establishment of new permanent plots: a) Stratification b) Shape and size of plots c) Amount of permanent sample plots d) Location of permanent sample plots e) Establishment of permanent plots in the field 	
	Inventory data collection will be done every 4-5 years and as a minimum prior to each performance certification.	
	a) Stratification The stratification will be done based on the planting design where one stratum consists of an area with homogenous patterns mentioned in the Forest Management Plan. Pre-stratification will be carried out and 6 sample plots per stratum will be implemented to give an indication about the standard deviation within the stratum.	
	b) Shape and size of plots Circular plots will be used for the given project. Data and analyses at the plot level (616m ²) are extrapolated to the area of a full hectare to produce carbon stock estimates.	
	c) Amount of permanent sample plots The following formula will be used to determine the amount of sample plots per stratum when new permanent sample plots are established: $n = (N * s)^2 / N^2 * E^2 / t^2 + N * s^2$ Where, E= Allowable error, t= Confidence level N= Number of sampling plots for a certain stratum. s= Standard deviation of a stratum	
	d) Location of permanent sample plots For the location of new permanent sample plots, either a stratified random	



sampling design or a strat In the first one, the geogra sample may be selected w coordinates restricted to th stratum is considered an plots are allocated system allocation of plots dependi	tified systematic sampling design will be applied. phic coordinates for each sample plot in a random rith a random number generator with the allowable he sampled population. In the latter design, each independent sub-population, and in each strata natically in a grid; strata might differ in the spatial ing on the statistics of the sub-population.
 e) Establishment of pe The following is a step-by plots in the field: (1) The field staff being re 	rmanent plots in the field y-step description on how to stablish permanent sponsible for the data collection goes on the field
to the plot (with unique plot his smartphone (e.g. usin and if necessary, a GPS of (2) On arrival at the respe	ot-ID)to be established. It uses the digital map at g Avenza Systems Inc. smartphone application) device to accurately locate the center of the plot. ctive plot, verify once again the GPS coordinates mappent sample plot (PPM) [Recommendation:
Permanent numbering of t recommended, e.g., with r (3) Mark the identification (4) Use a rope or any othe	the plots with their unique plot-Id would be highly numbered aluminum signs, a tube or a metal pole] (ID) number of the plot, and the center of the plot. er appropriate means to mark the boundary of the
 (5) Where sample plots a measurements have to be Detailed protocol of field m (6) Mark all the trace inclusion 	and the plot with a unique identification (ID) and
their unique Id would be aluminum signs, a tube or	idation: Permanent numbering of the trees with be highly recommended, e.g., with numbered a metal pole]
Overall, VVB confirms that in the document "Forest Inv	the sampling plan has been appropriately defined entory Guideline"/07/ which is valid and acceptable.

C. Other elements of monitoring plan

Means of design certification	DR, OSV, I
Findings	
Conclusion	 Based on the review of section B.7.3 of the VPA-DD^{/02/},in compliance with paragraph 5.11.6 of the PoA requirements and procedures^{/B01/}, the forest and monitoring plan: Includes the monitoring of the forest establishment. Describes potential risks and mitigation measurements including measures to minimize leakage. Includes SOPs and Q/A for monitoring and control. There is no harvesting planned for project activity. Since it consists of a conservation forest. Some pruning and thinning might be possible. VVB confirms that the forest management plan^{/22/} includes the monitoring of the forest establishment, describes potential risks, mitigation measurements, includes SOPs and Q/A for monitoring and control and is in compliance with
	paragraph 5.11.6 of the PoA requirements and procedures/B01/.

4.15 Duration and crediting period

Means of design certification	DR, OSV, I
Findings	CAR 05 was raised, which has been satisfactorily closed



Conclusion	As per section C.2 of the VPA-DD ^{$/02/$} , the crediting period of the project is of 40 years starting from 02/05/2023 to 01/05/2063. The start date has been
	confirmed by VVB after reviewing the evidence for start date and confirms that the first planting activity for the VPA has been conducted on 02 nd May 2023. Furthermore, the proof of project lifetime ^{/27/} has also been provided by CME.

4.16 Safeguarding principles and gender sensitive assessment including assessment of appendix 1 of VPA-DD

a. Safeguarding Principles Assessment

Means of design certification	DR, OSV, I
Findings	
Conclusion	The CME has done the safeguarding principles assessment analysis and resent assessment in Appendix 1 of GS VPA-DD ^{/02/} . The assessment has been performed in accordance with requirements prescribed in theGS4GG Principles & Requirements, Version 1.2 ^{/B01/} & Safeguarding Principles & Requirements, Version 1.2 ^{/B01/} . The detailed assessment of safeguarding principle is provided in Appendix 2.

b. Safeguarding Principles that will be monitored

Means of design	DR, OSV, I	
Findings		
Conclusion	Section D.1 of the VPA-DD ^{/02/} has been assessed by the VVB in line with Gold Standard for The Global Goals Gender Equality Requirements & Guidelines, Version 1.1 ^{/B01/} and GS template instructions.	
	Principles	Mitigation Measure added to Monitoring Plan
	Endangered species	The number of herpetofauna, and the number of threatened species of herpetofauna present in the project is monitored.
	VVB confirms, based on document interviews/i-xxv/, that only one of the p needs to be monitored. Furthermo questions and taking into account the stakeholder opinion is needed.	review ^{/02/08/19/} and on-site inspection rinciple is relevant to the project, and re, VVB, based on the assessment project context, confirms that no expert

C. Assessment that project complies with GS4GG Gender Sensitive requirements.

Means o	of de	esign [DR, OSV, I
certificatio	on		
Findings		-	



Conclusion	Section D.2 of the GS VPA-DD ^{/01/} has Gold Standard for The Global Go Guidelines, Version 1.1 ^{/B01/} and GS to	s been assessed by the VVB in line with als Gender Equality Requirements & emplate instructions:
	GS4GG Gender Sensitive requirement Questions	Assessment of Compliance
	Question 1 – Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?	Based on the on-site inspection interviews ^{/i-xxv/} and desk review ^{/02/10/} , VVB confirms that the project takes into account gender roles and the abilities of women and men to participate in the decision/designs of the project activities.
	Question 2 – Explain how the project aligns with existing country policies, strategies and best practices	VVB, during the on-site inspection interviews/i-xxv/, observed the project activity doesn't endorse any form of discrimination based on gender. The project activity doesn't endorse any form of discrimination based on gender. Colombia has ratified ILO Conventions 100 (Equal Remuneration Convention) and 111 (Discrimination (employment and occupation) Convention) ^{/B06/} . Women can participate to the project and will therefore not put at risk women's or any other marginalized groups access to or control of resources, entitlements and benefits.
	Question 3 – Is an Expert required for the Gender Safeguarding Principles & Requirements?	Based on the on-site observations and interviews ^{/i-xxv/} , VVB confirms that no expert is needed since Gender is adequately addressed in the Safeguarding principles assessment.
	Question 4 – Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	Based on the on-site observations and interviews ^{/i-xxv/} , VVB confirms that no expert is needed since the consultations did not present any particular challenge from a Gender perspective.

4.17 Stakeholder consultation

a. Local stakeholder consultation

Means of design certification	DR, OSV, I
Findings	



Conclusion	In compliance to GS4GG Stakeholder Consultation and Engagement Requirements Version 2.1 ^{/B03/} ., VVB has conducted the assessment of section E of GS VPA-DD ^{/02/} as follows:		
	GS4GG Stakeholder Consultation	Assessment of Compliance	
	and Engagement Requirements ^{/B03/}		
	A separate stakeholder consultation shall be organized for proposed project.	Based on document review ^{/10/} , the stakeholder consultation has been conducted on 15/04/2023 physically with the stakeholders and on 21/04/2023 in online mode. This has been confirmed by reviewing the supporting evidence ^{/10/} provided by CME and through on-site interviews.	
	The CME shall submit the stakeholder consultation report for real case project at the time of first submission (i.e., Preliminary review of real case project).	Based on document review ^{/02/10/} and on-site interviews ^{/i-xxv/} , VVB confirms that the CME has provided the stakeholder consultation report which is valid and in compliance with the GS4GG Stakeholder Consultation and Engagement requirements ^{/B03/} .	
	The Gold Standard reserves the right to enforce new stakeholder consultation(s) for regular projects	Not Applicable	
	A grievance mechanism shall be established and made available for project activity.	VVB, based on the review of section E.2 of the VPA-DD ^{/02/} , confirms that the grievance mechanism has been appropriately defined. The detailed description is provided in section 4.16 (c) of this report.	

b. Summary of stakeholder mitigation measures

Means of design certification	DR, OSV, I
Findings	
Conclusion	The mitigations measures has been developed against any natural forest fire. During the on-site inspection/interviews/i-xxv/, it has been confirmed that the CME is in contact with the community and governmental institutions in order to respect the existing roads, and before creating any main access road. They has also provided courses about the local flora and fauna to the residents of El Placer/El Tuparro. CME has also evaluated the possibility of setting up a weather station that the community could benefit from and, including in the monitoring of biodiversity of mammals and birds, additionally to the



herpetofauna.

c. Continuous	input / grievance mechanism
Means of design	DR, OSV, I
certification	
Findings	
Conclusion	VVB, based on on-site inspection interviews/i-xxv/ and document review/02/10/20/,
	confirms that the continuos input/Grievance expression process box has been
	kept at El Placer/El Tuparro Community Center and BaumInvest house in the
	farm Veraneo, nearby El Placer/El Tuparro village (Cumaribo, Vichada).
	Furthermore, as per the interviews/i-xxv/, design certification team confirms that
	there is an effective continuous consultation/grievancemechanism process
	so any stakeholders can access, approach and provide feedback to
	Bauminvest Colombia SAS and Bauminvest Latinoamerica if they want, via
	emails and phone number. This is deemed appropriate and acceptable to the
	design certification team.
	Based on the above assessment V/VB confirms that the LLIE input &
	grievance mechanism have been appropriately demonstrated in line with
	ANNEX D of GS4GG LUF Activity requirements v1.2.1 ^{/B02/} and Section 4.1.34
	of GS4GG Principles and Requirements v1.2 ^{/B01/} .

4.18 Eligibility and inclusion criteria for VPAs inclusion

Means of design			
certification	DR, OSV, I		
Findings	CAR 07 has been raised, which is now	satisfactorily closed	
Conclusion	In line with section A.3 of the PoA-DD, CME has demonstrated eligibility as per section 3.1.1 of GS4GG Principles & Requirements v2.0 ^{/B01/} and 2.1.1 of GS4GG Land Use & Forests Requirements ^{/B02/} . VVB has conducted the assessment of compliance for eligibility and inclusion criteria for VPA inclusion as follows		
	As per section 4.12 of GS PoA Requirements and Procedures v2.0 ^{/B01/}		
	Requirement	VVB Assessment of compliance	
	Geographical boundaries- Geographical boundaries of VPAs consistent with the geographical boundary of the PoA.	In line with section F of the VPA- DD ^{/02/} , the project is set in Colombia which is consistent with the PoA geographical boundary. This has been confirmed by VVB after reviewing section A.2 of the PoA- DD ^{/01/} . The VPA is located in the farm Veraneo under Department of Vichada located in the eastern plains of Colombia. This has been further verified by the VVB by reviewing the shapefiles for the VPA boundary.	
	Double counting – Conditions to avoid double counting of Impacts	Based on document review ^{/15/16/} and on-site inspection/interviews ^{/i-xxv/} ,	



Exclusiveness of VPA - The VPA	VVB confirms the name for the farm included in the VPA has been provided along with the detailed boundary map ^{/16/} and KML file ^{/15/} . Furthermore, CME has full and uncontested legal ownership of any products, including GSVERs, generated under Gold Standard certification.
shall not previously be registered as a project activity or included as a VPA in any other registered PoA or deregistered as a VPA of a PoA.	DD ^{/02/} and the evidence ^{/17/} provided, VVB confirms that the project has not been registered under any other GHG programs and is not seeking registration under any other GHG programs. This has been further confirmed bythe VVB checking on other registries(CDM/GS/GCC/Plan Vivo)/ ^{B05/} .
Start date- The project start date shall be the earliest date when the first trees are planted. The start date of any proposed VPA will be on or after the start date of the PoA.	The start date of the VPA is 02/05/2023 ^{/02/06/} which is after the start date of PoA "11/05/2022"/01/. The start date has been verified by VVB after reviewing the acknowledgement letter/ ^{06/} , confirming that the first planting activity has been carried out from the start date.
Applicability of the methodologies- The only methodology used for VPAs under the PoA is "LUF_AR- Methodology-GHGs-emission- reduction and-Sequestration- Methodology". The tool "LUF AR Methodology Soil Carbon Tool" is used in order to calculate the Soil Organic Carbon	Based on the assessment in section 4.9 (b) of this report, VVB confirms that the methodologies applied are valid and in compliance.
Conditions to ensure that VPA meet the requirements for demonstration of additionality- For demonstration of additionality, one of the two options will be applied: Option 1: Latest version of A/R Methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities Option 2: Latest version of Positive	Based on document review ^{/01/02/} and on- site inspection/interviews ^{/i-xxv/} , VVB confirms that the VPA additionality has been appropriately demonstrated in section B.5 of the VPA- DD ^{/02/} . Refer to section 4.11 of this report for assessment of Additionality.
list (as per 3.1.16, (b) of the Land Use & Forests Activity Requirements).	
Conditions to ensure no diversion of official development assistance- Conditions to ensure nodiversion of official development assistance Affirmation that funding from Annex I Parties, if any, does not result in a diversion of official development	Based on the review of Signed ODA Declaration Form ^{/26/} , VVB confirms that there is no diversion of officialdevelopment assistance.



assistance	
Conditions related to sampling requirements for the PoA- Any VPA will follow the sampling requirements for forest inventories described in the LUF_AR- Methodology- GHGs Emission Reduction & Sequestration Methodology	Based on the review of Forest Inventory Guidelines ^{/18/} , VVB confirms that the sampling requirements are in compliance with applied GS methodology, LUF_AR- Methodology- GHGs Emission Reduction & Sequestration Methodology ^{/B01/} and relevant tools ^{/B04/} .
Scale of the VPA Conditions to ensure that VPAs that will be included meet the small-scale or microscale thresholds and remain within those thresholds throughout the crediting period - Any VPA following the smallholder or microscale scheme will follow the requirements for LUF Smallholder & Microscale Projects as outlined in Annex B of the AR LUF Activity Requirements	Not Applicable since the VPA is large scale (> 16,000 tCO2e/year) ^{/02/03/} .
Conditions to confirm that technologies in VPAs are eligible: Can include planting trees Can include single- species plantations Can apply all silvicultural systems, e.g. conservation forests (no use oftimber); forests withselective harvesting; rotation forestry All projects can include agriculture (agroforestry) or pasture (silvopasture) activities 	Based on the on-site inspection interviews ^{/i-xxv/} and document review ^{/02/03/} , VVB confirms that the VPA includes planting of site- adaptive 5 native and 1 non- native(adapted) tree species creating a conservation forest with no use of timber.
Conditions to be met by each VPA regarding SDG outcomes assessment SDG outcomes assessment- SDG outcomes, and the methods of monitoring these outcomes, are defined in the VPA- DD section B.6. The option a) of paragraph 5.6.2 of the PoA requirements and procedures is chosen.	As per VPA-DD ^{/02/} , the option a) of paragraph 5.6.2 of the PoA requirements and procedures ^{/B01/} is chosen. Based on document review ^{/02/} VVB confirms that the VPA-DD ^{/02/} details on SDG outcomes in section B.6. and in section B.7. the details on how to monitor the SDGs. Refer to section 4.14 of this report for assessment of SDG impact and outcomes.
Conditions to be met by each VPA regarding safeguarding principles- Summary of Safeguarding Principles, and the methods of monitoring these principles, are	Based on the review of Appendix 1 of the VPA-DD ^{/02/} , VVB conducted assessment of the Safeguarding Principles in APPENDIX 2 of this report and confirms that this



defined in the VPA-DD Section D.1. The option a) of paragraph 5.5.2 of the PoA requirements and procedures is chosen.	assessment has been done by the CME.
Conditions to be met for retroactive VPAs - Retroactive VPAs shall submit the required documents to Gold Standard within five years of its start date (time of first submission).	Not applicable since the project is a regular project and not a retroactive project.
Conditions to ensure that VPA meets general eligibility criteria- Conditions to ensure that VPA meets general eligibility criteria as per section 3.1.1 of GS4GG Principles & Requirements and general eligibility criteria as per section 2.1.1 of GS4GG Land Use & Forests Requirements	VVB, based on review of section A.3 of the PoA-DD ^{/01/} and section A.1.1 of the VPA-DD ^{/02/} , confirms that the VPA meets the general eligibility criteria as per section 2.1.1 of GS4GG Land Use & forests requirements. Refer to section 4.3 of this report.
Conditions to ensure that VPA follows the guidelines to conduct a spatial forest/non-forest assessment- Every VPA to be included under the PoA shall not meet the definition of forest 10 years before project start date and at project start date. In the case that the eligible area has been deforested during the last 10 years prior to the project start date, the VPA implementer shall provide evidence that the deforestation activity has not taken place with an intention to implement project activities that generate GS VERs. The Guidelines as per Annex C of the Land Use & Forests Activity Requirements should be followed.	The spatial forest/non-forest report ^{/11/} has been provided by CME. Based on the review of report, VVB confirms that the VPA follow the guidelines as per Annex C of the Land Use & Forests activity requirement v1.2.1 ^{/B02/} .
Conditions on crediting period- Every VPA shall make sure that the crediting period of the VPA shall not exceed the end of the duration of the PoA, which is for forestry PoAs 50 years	As per section D.2 of the PoA- $DD^{/01/}$, the total duration of proposed PoA is 50 years. The crediting period as per the section C.2.2 of the VPA- $DD^{/02/}$ is 40 years which does not exceed the end of the duration of the PoA.
Conditions related to stakeholder consultation- A local stakeholder consultation (LSC) following the Stakeholder Consultation and Engagement Requirements has to be carried out for each VPA or A group of VPAs in case that the applicability requirements included in paragraph 5.7.3. of the PoA Requirements are complied with.	VVB, based on the review of the Stakeholder consultation report ^{/10/} provided for VPA-DD ^{/02/} , confirms that the LSC has been carried out for all the group of VPAs to be included which is in compliance with paragraph 5.7.3 of the PoA requirements ^{/B01/} .
Conditions to specify the approach to address non-permanence-	Refer to section 4.20 of this report for detailed assessment.



Every VPA shall outline in the Land	
Lise & Forests Risks & Canacities	
Guideline the non permanence	
opproach	
Approach chosen for VV/D site	
Approach chosen for VVB site-	VVB confirms that the on-site
visits in view of inclusion of future	inspection has been carried out
regular VPAs-	from 8 – 11 th July 2023.
A validation on-site visit will be	
conducted by the VVB for each	
VPA, unless GS requirements	
allow an exception of a VVB site	
visit or a deviation request has	
been approved by GS.	
Conditions to ensure a standard	CME has provided
operational procedure (SOP) for	"SOP Continuous Input &
managing the input and grievance	Grievance Mechanism v1.0"/20/
mechanism-	document demonstrating that the
Every VPA shall adhere to the	VPA will follow the SOP which is
SOP for managing the input and	deemed valid and appropriate by
grievance mechanism outline in	VVB. This has been further
the PoA Management System	confirmed during the on-site
Manual, or describe in detail any	interviews.
necessary deviation of the SOP to	
better adjust to the specific VPA	
conditions.	
Conditions to ensure the	VVB confirms that the systematic
systematic description of the	description of the specific design of
specific design of the VPA-	the VPA has been provided in the
Every VPA shall describe, as per	section A of the VPA-DD ^{/02/} . Refer to
section 5.2.2 of the Programme of	section 4.6 of this report
Activity Requirements:	
a) the present environmental	
conditions of the area planned for	
the Forestry VPA, including the	
climate, hydrology, soils and	
ecosystems	
b) Describe the presence, if any, of	
rare and endangered species and	
their habitats	
c) Describe the species and	
varieties selected for the Forestry	
VPA	
d) Describe the measures and	
know-how that will be transferred	
to the host Party, if applicable	
e) Describe or list the legal title(s)	
to the land, current land tenure and	
rights enabling determination of	
the owner of the GS VERs to be	
issued for the Forestry and AGR	
VPAs.	
1 <u>····</u>	1
Based on the above assessment, VV	B confirms that section F of the VPA-
DD/02/ complies with the section A.3 of	of the PoA-DD ^{/01/} and section 3.1.1 of
GS4GG Principles & Requirements/B	^{01/} and 2.1.1 of GS4GG Land Use &
ForestsRequirements/B02/	



Means of design certification	DR, OSV, I	
Findings		
Conclusion	As per APPENDIX 3 of the VPA-DD ^{/02/} , the following additional information	
	has been provided by the BaumInvest AG and further assessed by the VVB:	
	Risk of change to the Project Area and activities during Project	
	CertificationPeriod:	
	Project Area:	
	The risk of change to the project area is very low as the CME/VPA	
	Implementer holds uncontested legal land titles for the areas/13/14/.	
	Project activities:	
	CME has sufficient funding ^{/25/26/} for the implementation of the project due to	
	which the risks of change to the project activities is described as low.	
	VVB, during the on-site inspection and interviews has assessed the risks of	
	change to the project area and activities during project certification period.	
	Based on the spatial forest/non forest assessment/11/ the land use from 2011	
	to the present is abandoned grassland which is maintained through	
	recurerrent fires to keep the economic value of the farm. The current land	
	cover is grassland with scattered shrubs and solitary trees	
	The project area has been used exclusively as grassland for extensive cattle	
	ranching with the purpose of meat production (from 1992 to 2011).	
	Socio-Economic history:	
	Subsistence farming of traditional crops such as cacao, banana and	
	sugarcane have been worked by the farmers and indigenous groups.	
	Extensive livestock farming was the predominant land use activity which	
	exerts strong pressure on the ecosystems of the region, which induces	
	deforestation and burning for the establishment of illicit crops and the	
	establishment of pastures for extensive cattle farming.	
	Forest management applied (past and future)	
	The management plan to be applied has been provided by the CME.	
	The management applied will consist or, land preparation, the nursery,	
	of the seedlings and the success of the reforestation. Further project activities	
	tend to prevent illegal logging and other disturbances of the new established	
	forest and adjacent old-growth and secondary forest remnants within the	
	project area.	
	Forest characteristics (including main tree species planted)	
	The planting design includes planting of 5 native and 1 non-native tree	
	species. The tree species are planted in a mixed planting design with initial	
	density of 841 trees/ha. The spacing implemented between the "heliofitas	
	eflimeras and "heliofitas durables" is 4 by 4m and between the "heliofitas	
	eflimeras and heliofitas durables and esciofitas" species is 4 by 2m. The list	
	of tree species is provided in section 4.6 of this report.	



Main social impacts (risks and benefits)

The uncontested land title ownership belongs to the CME^{/13/14/} which leads to no negative social impacts or risks of the proposed VPA. However, the project activity provides employment for local population who are also subjected to any social insurance contributions and accident assurances. VVB confirms there are no risks associated of social impacts to the local population.

Main environmental impacts (risks and benefits)

The VPA is an afforestation/reforestation project aiming to create a diverse secondary forest in the mid- and long-term. The areas serve as habitat and biological corridors for many rare and endangered wildlife species of the Orinoco region- particularly since the project area is close to the Tuparro National Park. The reforestation of fallow and grassland contributes to protect water catchment areas and improve water quality. VVB confirms that the project activity leads to improving the environment with providing benefits to the local community and wildlife.

Financial structure:

The project is financed by the CME BaumInvest AG.

Infrastructure (roads/houses):

CME has provided appropriate shapefiles^{/15/} for the VPA demonstrating the infrastructure within the project area. VVB confirms that the shapefiles^{/15/} provided are valid and clearly demonstrate the infrastructure within the project area.

Waterbodies

CME has provided appropriate shapefiles^{/15/} for the VPA demonstrating the waterbodies within the project area. VVB confirms that the shapefiles^{/15/} provided are valid and clearly demonstrate the water bodies within the project area.

Sites with special significance for indigenous people and local communities - resulting from the Stakeholder Consultation:

There is no site with special significance for local communities identified during the Local Stakeholder consultation/10/.

Where indigenous people and local communities are situated There are no indigenous people situated within the project area. The local communities are situated nearby the project area in following locations:

- El Placer/El Tuparro
- Palmarito
- Chaparral

Where indigenous people and local communities have legal rights, customary rights or sites with special cultural, ecological, economic, religious or spiritual significance:

There are no sites with legal rights, customary rights or rights with special cultural, economic, religious or spiritual significance other than the forests which have a certain ecological significance.

4.20 LUF Risk and Capacities

Means of	DR, OSV, I
design	



certification		
Findings	-	
Conclusion	As per GS Risks & Ca has conducted the ass	pacities Guideline for 'Land Use & Forest' projects, VVB sessment of LUF Risks and Capacities as follows:
	Risk and Capacities	Assessment of Risks
	1. Natural Disturba	nce
	1. Natural Disturba 1.1 Fire Damage	Probability of the risk As per the Risk and Capacities tool/05/, ⁷⁰⁵⁷ , High (Score 3) has been considered as the Event is expected to occur once or more in 10 years. During on-site inspection/interviews/ ^{1-xxvv} , VVB has been informed about the significant likelihood of fires in the project area is quite high. The local climate is characterized by seasonal rainfall, with an average annual precipitation ranging from 2,341 to 2,724 mm. There is also a dry season that typically lasts for three to four months, with the driest months being December and March, which experience 2-10 rainy days. These conditions are further exacerbated by strong northeast winds that commonly occur during this time of year. Consequently, the probability of fires occurring and spreading is highest during these months. It is important to note that the majority of fires in the savannas of the eastern plains of Colombia are caused by human activities. The region has a customary practice of anthropogenic burning of grasses during the dry season. VVB has also cross-verified this information with 1)https://es.climate-data.org/america-del-sur/colombia/vichada/la-primavera-49978/ 2)https://es.climate-data.org/america-del-sur/colombia/vichada/la-primavera-49978/ 2)https://es.climate-data.org/america-del-sur/colombia/vichada/la-primavera-49978/ 2)https://es.climate-data.org/america-del-sur/colombia/vichada/la-primavera-49978/ 2)https://es.climate-data.org/america-del-sur/colombia/vichada/la-primavera-49978/ 2)https://es.climate-data.org/america-del-sur/colombia/vichada/la-primavera-49978/ 2)https://es.climate-data.org/america-del-sur/colombia/vichada/la-primavera-49978/ 2)https://e



	and mitigate the spread of fires. However, it is important to note that grass fires pose a significant danger to young trees. Fortunately, as the trees grow and mature over the initial few years, they become more resilient and capable of withstanding most of these fires.
	as a protective shield, preventing excessive drying and reducing the likelihood of fire propagation. This protective effect is further demonstrated by the presence of natural gallery forests in the area, which serve as evidence of how the existing forest vegetation acts as a barrier against severe drying and minimizes the risk of fire spreading. This shall be further verified during the first performance certification when the project is implemented.
	VVB has verified the evidence provided confirms that the score for impact of fire risk is appropriate and valid.
	Scale of the risk As per the Risk and Capacities tool ^{/05/} , Medium (Score 2) has been considered because the event is expected to affect between 5 % and 50 % of the project area.
	Mitigation Measure As per the Risk and Capacities tool ^{/05/} , VVB has confirmed, through the "Forest Fire Manual" included in the Forest Management Plan, that the project has implemented effective mitigation measures to prevent the risk of wildfires. A comprehensive fire control plan is in place, which includes the establishment and regular maintenance of firebreaks. These firebreaks consist of cleared vegetation strips and utilize both natural firebreaks, such as creeks and gallery forests, along the project's boundaries and within its area.
	To ensure prompt response and early detection of fire outbreaks, a fire monitoring plan is in effect. This plan includes the utilization of the Fire Information for Resource Management System (FIRMS) provided by NASA, which offers near-real-time active fire data for continuous monitoring. <u>https://firms.modaps.eosdis.nasa.gov/</u> . Employees are specially trained and equipped to fight fires as quickly as possible.
	As the greatest potential risk comes from the cattle farmers in the neighbourhood regularly burning their grassland, it is agreed with them to burn their pastures in as controlled a manner and to inform the forest plantation manager in advance so that CME would be prepared if the flames did spread to the planting area where the natural barriers and set up fire stripes were not sufficient.



1.2 Wind damage (e.g.,hurricanes, typhoon)	Not Applicable
typhoon) 1.3 Animals (e.g., domestic or wild animals' encroachment)	 Probability of the risk As per the Risk and Capacities tool^{(05/,} High (Score 3) has been considered as Event is expected to occur once or more in 10 years. But due to the mitigation measures in place, the corrected score is Score 2 (Medium). The risk for occurrence of damages in young plantations by the entry of animals (like cows, horses, deer) from neighbouring farms/areas is deemed to be quite high. The probability is higher in the early stages of the plantation and decreases with the forest establishment. VVB has verified the evidence provided, confirms that the score for probability of risk due to animals is appropriate and valid. Impact of the risk As per the Risk and Capacities tool^{(05/, 108/} Low (1) Event is expected to harm the products / greenhouse gas benefits, but do not lead to full destruction, AND Products / greenhouse gas benefits are expected to recover without intervention in less than 5 years based on the current levels. The risks are considered to be low due to the animal encroachment (e.g., cows, horses, deer) from neighboring farms/areas that can have quite a large impact in young plantations but is limited in time to the first few months to three years while the trees are still small. VVB has verified the evidence provided, confirms that the score for impact of risk due to animals is appropriate and valid. Eacle of the risk As per the Risk and Capacities tool^{(05/, 108/}, the scale of the risk is medium. Hence validates the risk score 2 (Medium). With the mitigation measures in place the scale of the risk is expected to affect less than 5% of the project area, and it is therefore assessed as low (Score 1). Mitigation measures My confirms that fences can be installed along property lines that are not protected by creeks, if necessary. In addition, staff (a family) is living permanently on site; among their tasks, one is to overlook the project area, and to respond quickly if animals should enter the proje



	Probability of the risk
1.4 Pest and disease outbreaks (e.g.,insects, bacteria, viruses, fungi)	As per the Risk and Capacities tool ^{/05/} , score 3 (high) has been considered as event is expected to occur once or more in 10 years. VVB confirms that the probability of a pest or disease outbreak or a massive insect infestation is considered low (Score 1) with the mitigation measures in place as they conservatively assessed the probability of the risk as high without mitigation measures in place.
	Impact of the risk As per the Risk and Capacities tool ^{/05/} , medium (2) Event is expected to harm the products / greenhouse gas benefits, but do not lead to full destruction, AND Products / greenhouse gas benefits are expected to recover without intervention in more than 5 years from the current levels. The impact of pests and disease in recently established restoration areas can be quite high, particularly in the presence of large populations of leafcutter ants (<i>Atta</i> spp. and <i>Acromyrmex</i> spp.) and/or root-eating beetle larvae (<i>Phyllophaga</i> spec.). This impact is higher in the early stages of the forest restoration and decreases with the forest establishment. Also, the populations of leaf-feeding insects in these tropical grasslands is expected to be low. The impact of the risk is therefore rated as medium. Based on the evidence review, VVB confirms the scoring for impact of the risk to be valid and appropriate.
	 Scale of the risk As per the Risk and Capacities tool^{/05/}, score is medium (2), that Event is expected to affect between 5% and 50% of the project area. The scale of the risk is considered low(1) with proposed mitigation measures in place. Based on the evidence review^{/08/}, VVB confirms the scoring for impact of the risk to be valid and appropriate. Mitigation Measures As per the Risk and Capacities tool^{/05/}, VVB confirms that the best way to prevent pests and diseases as well as massive insect infestation within the planting area is diversification by using a variety of native tree species well adapted to the given climatic and soil conditions and planted in mixed stands. VVB confirms that a mix of companion plants (<i>Cajanus cajan, Canavalia ensiformis, Ricinus communis, Vigna unguiculata</i>) will be planted together with the tree seedlings. This special selection of annual herbaceous plants serves to protect the young seedlings and help them to come up with vigour and health, and to protect them from pests and diseases, while improving the soil.



	Especially in the first months after planting, there is also continuous monitoring of leaf cutter ants and root-eating beetle larvae in order to be able to take countermeasures in time, before these insects can become a risk for the project. However, continuous monitoring also includes all other possible pest and disease which might affect the planted trees.
1.5 Temperature extremes (e.g., extreme heat, frost)	Not Applicable
1.6 Water extremes (e.g. droughts, heavy rains, floods, mudslides,	Probability of the risk As per the Risk and Capacities tool ^{/05/} , score is 3 (High) that the event is expected to occur once or more in 10 years.
avalanches, ice- storms)	During the on-site inspection and interviews ^{/i-xxv/} , VVB confirms that the project site is situated in a tropical savanna climate, known for its pronounced seasonality and abundant annual precipitation ranging from 2,341 to 2,724 mm. During the dry season, monthly precipitation remains at a minimum of 12 mm, while in the rainy season, it can reach a maximum of 416 mm. As a result of these weather patterns, the area experiences extreme events such as droughts during the peak of the dry season (January/February) and heavy rainfall leading to temporary flooding in the peak of the rainy season (May - but).
	VVB further verified this from sources: 1) <u>https://es.climate-data.org/america-del-</u> <u>sur/colombia/vichada/la-primavera-49978/</u> 2) <u>https://es.climate-data.org/america-del-</u> <u>sur/colombia/vichada/puerto-carreno-3822</u>
	Impact of the risk As per the Risk and Capacities tool ^{/05/} , score is 2 (Medium) Event is expected to harm the products / greenhouse gas benefits, but do not lead to full destruction, and Products /greenhouse gas benefits are expected to recover without intervention in more than 5 years from the current levels.
	VVB confirms that the potential impact of extreme water events on the planted trees is conservatively assessed as low (Score 1) in the presence of mitigation measures. While drought periods are not frequent, they can occur during the dry season. Given the project area's predominantly flat terrain, which is elevated between 110
	and 140 meters above sea level, temporary flooding is anticipated along the creeks and in certain depressions within the project site following heavy rainfall in the rainy season. Both drought periods and floodings after heavy rains pose potential risks to the growth and survival of



	seedlings and young trees. These impacts of the risk are higher in the initial stages of reforestation and decrease once trees are bigger and a closed forest cover has developed. Hence the impact of the risk of water extremes is low with the mitigation measures in place. Based on the evidence review, VVB confirms the scoring for impact of the risk to be valid and appropriate Scale of the risk As per the Risk and Capacities tool ^{/05/} , score is 2 (Medium) which is expected to affect between 5 % and 50
	% of the project area. During the on-site inspections and interviews/i-xxv/, VVB confirms that the occurrences of water extremes, will impact the extend beyond the project area and affect the entire region. However, the presence of numerous creeks, gallery forests within and surrounding the planting area, as well as the depressions, are expected to have a mitigating effect during possible drought periods. These areas act as natural reservoirs and help maintain a balance in water availability. Conversely, during potential flooding events, these same areas are more susceptible to being affected due to their low-lying nature.
	Mitigation measure VVB confirms that that CME effectively mitigates the risks associated with water extremes, including droughts and floodings after heavy rains. CME achieves this by implementing several strategies. Firstly, they exclusively plant carefully selected native tree species(and one non- native adapted tree species) that are well-suited to the specific climatic and soil conditions of the project area. These tree species have natural adaptations that enable them to withstand and thrive in such conditions.
	Moreover, CME employs a mixed planting approach, where different tree species are planted together in the same stands. This mixed stand planting strategy enhances the resilience of the planted forests to weather extremes. By diversifying the tree species, the forests can better withstand the impacts of droughts and heavy rainfall.
	Additionally, companion plants are incorporated into the planting scheme to provide shelter and support for the young tree seedlings. These companion plants not only offer physical protection but also assist in water absorption, helping to regulate soil moisture and reduce the effects of water extremes on the planted forests.
	These combined measures implemented by CME enhance the resilience of the planted forests, enabling



	them to better withstand and recover from potential weather extremes that may occur in the region.
1.7 Changing climate (e.g. long draught period, seasonal variability of rainfall pattern, water availability)	Probability of the risk As per the Risk and Capacities tool ^{/05/} , score is 3 (high) Climate change is a fact and a continuous process, not an event. Impact of the risk As per the Risk and Capacities tool ^{/05/} , score is 1 (low). Event is expected to harm the products / greenhouse gas benefits, but do not lead to full destruction, and Products / greenhouse gas benefits are expected to recover without intervention in less than 5 years based on the current levels. Based on climate projections for Colombia, derived from IPCC scenarios, it is expected that the country will experience above-average warming, although there is significant uncertainty regarding future rainfall patterns. Most scenarios suggest an overall increase in annual precipitation by the end of the century, although regional variability is also considered to be significant.
	Specifically for the project area located in the eastern plains of Colombia, precipitation projections for the period 2040-2059 indicate a moderate decrease in rainfall. However, it is important to note that the average annual precipitation in the project region, ranging from 2,341 mm (Puerto Carreño) to 2,724 mm (La Primavera), is already relatively high. Additionally, the presence of numerous creeks within and surrounding the project area further contributes to the availability of water resources.
	Therefore, even with a moderate decrease in precipitation, it is unlikely to result in increased drought stress during the dry season. At most, it might have a negligible impact on the growth rates of the planted trees. The ample water supply in the region, combined with the existing high levels of precipitation, ensures that water availability will not be a limiting factor for the project's success.
	As per the Risk and Capacities tool ^{/05/} , score is 2 (Medium) where, event is expected to affect between 5 % and 50 % of the project area. When climate is changing, it is expected to affect the entire region. However, the many creeks and gallery forests within and surrounding the planting area as well as the depressions will have a balancing effect during possible drought periods. In turn, these areas are more affected by potential flooding. Therefore, we assume that no more than 50% of the project area would be affected by any single event, since they cannot occur simultaneously and rate the scale of



	the risk as medium. VVB confirms the scoring for scale of
	the risk to be valid and appropriate.
	Mitigation measures
	VVB confirms that to mitigate the risk of climate change,
	BaumInvest only plants carefully selected native tree
	species and one non-native (adapted) tree species that
	are adapted to the climatic and soil conditions of the
	project area and planted in mixed stands. This makes the
	planted forests more resilient to increasing weather
	extremes that may occur in the region. Careful site
	selection for reforestation areas to minimize the risks of
	climate change and other natural disasters from the very
	beginning.
1.8 Earthquake and	Not Applicable.
induced landslides	
1.9 Geological risk	Not Applicable.
(e.g. volcanic	
eruption, desert	
progression	
2 Political ricka	
2.1Political	Not Applicable.
interventions (e.g.	
strife terrorism	
corruption land	
occupation.	
community	
resistance)	
,	
2.2 Confiscation of	Not Applicable.
property (e.g	
expropriation,	
infrastructure	
development)	
2.3 Irregular	Not Applicable.
resettiement	
24	Not Applicable
Exploitation of	
natural resources	
(e.g mining, water	
oil)	
,	
Project Managemen	t risks



3.1 Project failure	Probability of the risk
due to:	As per the Risk and Capacities tool ^{$05/$} Medium (Score 2)
 insufficient 	has been considered as Event is expected to occur less
internal technical	than once in 11-20 years. With mitigation measures in
capacity (e.g.due to	place, the score has been corrected to low (score 1) which
high fluctuation of	deems to be valid to VVB.
season workers or	Through on-site inspections/interviews/i-xxv/, VVB confirms
permanent staff, not	that due to change of staff or restructuring, e.g., because
sufficient training),	of company growth, capacity constraints might be
OR	probable to occur.
 dependency on 	VVB has verified the evidence provided, confirms that the
continuous external	score for probability of risk of project failure due to
technical support	fluctuation of season workers or permanent staff not
	sufficient training), or dependency on continuous external
	technical support is appropriate and valid.
	Impact of the risk
	As per the Risk and Capacities tool/05/, Low (1) Event is
	expected to harm the products / greenhouse gas benefits,
	but do not lead to full destruction, AND Products /
	greenhouse gas benefits are expected to recover without
	intervention in less than 5 years based on the current
	levels. The risk is considered to be low due to long-term
	project duration and rather process- and role-onented
	VVB has verified the evidence provided, confirms that the
	score for impact of risk due to insufficient internal
	technical capacity (e.g.due to high fluctuation of season
	workers or permanent staff, not sufficient training), or
	dependency on continuous external technical support is
	appropriate and valid.
	Scale of the risk
	As per the Risk and Capacities tool ^{/05/} , the scale of the risk
	is also low. Hence validates the risk score 1 (Low) as
	without the mitigation measures in place, the risk could
	affect between 5% and 50% of the project area.
	Mitigation measures
	As per the Risk and Capacities tool ^{/05/} , VVB confirms that
	the following mitigation measures within the project
	boundary:
	- Leadership by multi-neaded interdisciplinary and
	international management-ream, internal reporting
	- Focus on defined processes and roles rather than on
	personal intrinsic know how
	- Responsibility divided on several positions throughout
	group-structure, four-eyes principle, back-up for crucial
	processes, regular internal capacity building


- Capacities and Know-How located within in specialist staff as well as external services provider exchangeable if required.	stornal
specialist staff as well as external services provider exchangeable if required.	itemai
exchangeable if required.	s, both
3.2 Project failure Probability of the risk	باجات ا
due to dependency As per Kisk and Capacities toor , vvb valuates to operate the event is expected to operate the event is event in event in event in event is event in event in event in event in event in event is event in e	ne risk
on key technical score two (2) as the event is expected to occur to individuale in the 11.20 years which is due to change of at	nce in
organization that restructuring e.g. because of company growth ca	an or pracity
are difficult to constraints might be probable to occur	lpacity
replace. VVB has verified the evidence provided, confirms t	nat the
score for probability of risk of project failure	lue to
dependency on key technical individuals i	n the
organization that are difficult to replace is appropria	te and
valid.	
Impact of the risk	
As per the Risk and Capacities tool ^{/05/} , Low (1) E	vent is
expected to harm the products / greenhouse gas be	enefits,
but do not lead to full destruction, AND Proc	ucts /
greenhouse gas benefits are expected to recover v	vithout
intervention in less than 5 years based on the o	current
levels. The risk impact considered low due to lon	g-term
project duration and rather process- and role-of	ientea
management structure.	
Scale of the risk	
Scale of the flak	
As per the Risk and Capacities tool ^{/05/} , the scale of t	he risk
As per the Risk and Capacities tool ^{/05/} , the scale of t is medium (score 2). Hence validates the risk s	he risk core 1
As per the Risk and Capacities tool ^{/05/} , the scale of t is medium (score 2). Hence validates the risk s (low) as the mitigation measures are in place, the	he risk core 1 ne risk
As per the Risk and Capacities tool ^{/05/} , the scale of the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area.	he risk core 1 1e risk
As per the Risk and Capacities tool ^{/05/} , the scale of the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures	he risk core 1 าe risk
As per the Risk and Capacities tool ^{/05/} , the scale of the risk solution (score 2). Hence validates the risk solution (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation measures	he risk core 1 ne risk asures
As per the Risk and Capacities tool ^{/05/} , the scale of the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation measures are applied:	he risk core 1 ne risk asures
As per the Risk and Capacities tool ^{/05/} , the scale of the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation measures internal results are applied: - Leadership by multi-headed interdisciplinary internal results.	he risk core 1 ne risk asures / and
As per the Risk and Capacities tool ^{/05/} , the scale of the second secon	he risk core 1 ne risk asures / and corting
As per the Risk and Capacities tool ^{/05/} , the scale of the second secon	he risk core 1 he risk asures / and corting
As per the Risk and Capacities tool ^{/05/} , the scale of the second secon	he risk core 1 ne risk asures / and corting an on
As per the Risk and Capacities tool ^{/05/} , the scale of the second secon	he risk core 1 he risk asures / and porting han on
As per the Risk and Capacities tool ^{/05/} , the scale of the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation me within the project boundary are applied: - Leadership by multi-headed interdisciplinary international Management-Team, internal re- structure - Focus on defined processes and roles rather the personal intrinsic know how - Responsibility divided on several positions throo group-structure, four-eyes principle, back-up for	he risk core 1 he risk asures / and corting han on ughout crucial
As per the Risk and Capacities tool ^{/05/} , the scale of the second secon	he risk core 1 he risk asures / and corting han on ughout crucial
As per the Risk and Capacities tool ^{/05/} , the scale of the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation measures VVB confirms that the following mitigation measures international Management-Team, internal restructure - Focus on defined processes and roles rather the personal intrinsic know how - Responsibility divided on several positions througroup-structure, four-eyes principle, back-up for processes, regular internal capacity building - Capacities and Know-How located within in	he risk core 1 he risk asures / and corting han on ughout crucial hternal
As per the Risk and Capacities tool ^{/05/} , the scale of t is medium (score 2). Hence validates the risk s (low) as the mitigation measures are in place, th could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation me within the project boundary are applied: - Leadership by multi-headed interdisciplinary international Management-Team, internal re- structure - Focus on defined processes and roles rather th personal intrinsic know how - Responsibility divided on several positions throu group-structure, four-eyes principle, back-up for processes, regular internal capacity building - Capacities and Know-How located within in specialist staff as well as external services provider	he risk core 1 he risk asures / and borting an on ughout crucial hternal s, both
As per the Risk and Capacities tool ⁷⁰⁵⁷ , the scale of the risk As per the Risk and Capacities tool ⁷⁰⁵⁷ , the scale of the second states of the second states that the second states that the risk second affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation mewithin the project boundary are applied: - Leadership by multi-headed interdisciplinary international Management-Team, internal restructure - Focus on defined processes and roles rather the personal intrinsic know how - Responsibility divided on several positions throug group-structure, four-eyes principle, back-up for processes, regular internal capacity building - Capacities and Know-How located within its specialist staff as well as external services provider exchangeable if required.	he risk core 1 he risk asures / and corting han on ughout crucial hternal s, both
As per the Risk and Capacities tool ^{/05/} , the scale of t is medium (score 2). Hence validates the risk s (low) as the mitigation measures are in place, tt could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation me within the project boundary are applied: - Leadership by multi-headed interdisciplinary international Management-Team, internal re- structure - Focus on defined processes and roles rather th personal intrinsic know how - Responsibility divided on several positions throu group-structure, four-eyes principle, back-up for processes, regular internal capacity building - Capacities and Know-How located within in specialist staff as well as external services provider exchangeable if required. 3.3 Project failure due to:	he risk core 1 he risk asures / and corting ian on ughout crucial hternal s, both
As per the Risk and Capacities tool ⁷⁰⁵⁷ , the scale of the second state of the risk of the second state of the risk of the second state of the se	he risk core 1 he risk asures / and corting han on ughout crucial hternal s, both
As per the Risk and Capacities tool ^{705/} , the scale of this medium (score 2). Hence validates the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation me within the project boundary are applied: - Leadership by multi-headed interdisciplinary international Management-Team, internal restructure - Focus on defined processes and roles rather the personal intrinsic know how - Responsibility divided on several positions throw group-structure, four-eyes principle, back-up for processes, regular internal capacity building - Capacities and Know-How located within in specialist staff as well as external services provider exchangeable if required. 3.3 Project failure due to: • to the lack of technical	he risk core 1 he risk asures / and corting ian on ughout crucial hternal s, both
As per the Risk and Capacities tool ^{705/} , the scale of this medium (score 2). Hence validates the risk s (low) as the mitigation measures are in place, the could affect less than 5% of the project area. Mitigation measures VVB confirms that the following mitigation me within the project boundary are applied: - Leadership by multi-headed interdisciplinary international Management-Team, internal restructure - Focus on defined processes and roles rather the personal intrinsic know how - Responsibility divided on several positions throug group-structure, four-eyes principle, back-up for processes, regular internal capacity building - Capacities and Know-How located within it is specialist staff as well as external services provider exchangeable if required. 3.3 Project failure due to: • to the lack of technical equipment (e.g.	he risk core 1 he risk asures / and corting han on ughout crucial hternal s, both



 planting material (e.g import barriers such as taxes, bureaucracy) 	
 3.4 Project failure due to: insufficient internal financial accounting and management capacity, or dependency on continuous external financial accounting and management support 	Not Applicable.
3.5 Project failure due to dependence on key financial accounting and management expertise of individuals in the organization that are difficult to replace	Not Applicable
 3.6 Project failure due to: insufficient internal legal management capacity, OR dependency on continuous external legal management support 	Not Applicable
3.7 Project failure due to dependence on key legal management individuals in the organization that are difficult to replace	Not Applicable.
3.8 Project failure due to:	Not Applicable.



 insufficient internal capacity to support to maintain third-party certification, OR dependency on continuous external 	
support to support to maintain third- party certification	
3.9 Project failure due to dependence on key individuals to support to maintain third-party certification in the organization that are difficult to replace	Not Applicable.
Financial risks	
4.1 Late achievement of the project cumulative cashflow break- even point	Not Applicable.
4.2 Lack of secured continued financial resources for project implementation until the project's the cumulative break-even cash flow (for profit projects) / total cost until end of crediting (non-profit projects)	Not Applicable.
Market risks	
5.1 Lack of liquidity/financial resources due to price variations (e.g. crop/timber produced, CO2- certificates,	Not Applicable.
tertiliser, machines)	



5.2 Project failure due to competing commodities (e.g palm oil, soya)	Not Applicable.
5.3 Project failure due to competing infrastructure (e.g settlements, roads)	Not Applicable.
Other risks	
6.1 Any other specific project risk that endangers the viability of the project (e.g. project failure due to crop robbery/illegal timber logging, due to disputes with the cooperative)	Not Applicable.



5. Certification Opinion

CCIPL has performed the design certification of the proposed Gold Standard real case VPA"GS 11707 VPA-02 Reforestation Project in Colombia 01" (GS12186) with start date of 02/05/2023.

This design certification has been conducted on the basis of the Gold Standard Afforestation/Reforestation (A/R) GHG Emissions Reduction & Sequestration Methodology (Version 2.0), GS4GG Land Use & Forests Activity Requirements Version 1.2.1, PAR Principles-requirements v1.2, Risks & Capacities Guideline for Land Use & Forest projects Version 1.0, Gold Standard Afforestation/Reforestation (A/R) GHG Emissions Reduction & Sequestration Methodology v2.0, PAR Validation and Verification standard v1.0 and GHG Emissions Reduction & Sequestration Product Requirements Version 2.0.

The design certification activities conducted by CCIPL included: collection of information, documents and data supporting the estimated GHG removals and GHG calculation spreadsheets; assessment of eligibility criteria for the inclusion of new VPA; assessment of management system.

The VVB has raised thirteen (13) clarification (CLs), seven (07) corrective action requests (CARs) and 00(zero) FARs, all of which has been raised and satisfactorily closed.

The VVB concludes with a reasonable level of assurance that the project is in conformance with Gold Standard Afforestation/Reforestation (A/R) GHG Emissions Reduction & Sequestration Methodology (Version 2.0). No qualifications or limitations exist with respect to the validation opinion reached by the auditor. CCIPL confirms that the project has been implemented in accordance with the Gold Standard Afforestation/Reforestation (A/R) GHG Emissions Reduction & Sequestration Methodology (Version 2.0).



Appendix 1. List of Findings from Design Certification

Table 1.CL from this Design Certification

CL	01	Section no.	Ex-ante carbon calculation sheet	Date: 03/07/2023		
Descri	ption of CL					
VVB ha	VVB has reviewed the ex-ante carbon calculation sheet provided and has observed the following:					
2)	The source for life	expectancy is	missing for Anadonanthora no	progrina Diptonyx odorata		
a)	Simprouba amara	and Ochroma p	ramidalo	egilia, Dipleryx ouorala,		
b)	The voluee under	the ebect "C	namuale.	in cell 16 is hardeeded		
0)	The values under		seq Ex-ante model +Outlier			
	Furthermore, the r	elerence for ba	selline shrub and grassland (2			
	0.4242 tCO2/na ex	poradic shrubs (conservative)) has not been pr			
C)		e booklet_data",	the AGB value, after Outlier	r analysis, in cell AS4 is		
	hardcoded.					
CME is	requested to clarify	on the points m	entioned above.			
CME re	esponse	· · · · · · · · · · · · · · · · · · ·		Date: 18/07/2023		
The ex	ante carbon calcula the reference sour	ntion sheet has b ce for life expect	een updated: ancy for Anadenanthera pereg	rina, Dipteryx odorata,		
	Simarouba amara	and Ochroma py	rramidale is indicated.			
b)	The reference to th	ne grassland, exp	ooradic shrubs (conservative) a	and fertiliser application is		
	under different she	ets and linked to	the main calculation sheet "C	seq Ex-ante model		
	+Outlier" in a more	illustrative way.				
<i>c)</i>	The value for the e excel "El Veraneo_ AGB values after C	xporadic shrubs baseline shrub l Dutlier analysis, i	(conservative) of 0.4242 tCO2 piomass_v1.1.xlsx" in cell I34 (- n columns AP to AW under she	//ha is provided in the See CL 02). eet "Tree booklet_data"		
	are linked to the pr	ecedent values.				
Docum	nentation provided	by CME				
Carbor	n fixation_COL01_v1	.2.xlsx				
VVB as	ssessment			Date: 25/07/2023		
a)	The source for th	e Anadenanthe	ra peregrina, Dipteryx odorata	a, Simarouba amara and		
	Ochroma pyramida	le has been prov	rided in the revised ex-ante carl	bon calculation sheet. VVB		
	further reviewed th	e sources and c	onfirms that the provided links	and sources are valid and		
	satisfactory.					
b)	VVB has reviewed has been calcula GfNGGI_Grassland Furthermore, the	the sheet "Baseli ted through the d.pdf" (page 27, conservative va	ine grassland" and confirms tha e IPCC default value from table 6.4)" along with the GS de alue of 0.4242 tCO ₂ /ha has	t the value of 23.6 tCO ₂ /ha the source "2006 IPCC efault values for grassland. been calculated in <i>"El</i>		
	Veraneo_baseline	shrub biomass_	v1.1.xlsx" excel sheet.			
c)	The values are link by VVB and confirr	ted to the preced ns that the provi	dent values under the same sh ded clarification is valid and sa	neet and has been verified tisfactory.		
CL has	s been closed					



CL	02	Section no.	Baseline shrub inventory	Date: 11/07/2023
			spreadsneet	
Descri	ption of CL	· · · · · · · · · · · · · · · · · · ·		
VVB ha calcula comme	as conducted an act tion. The sampling a ents on the Baseline	ceptance sampli nd original recor shrub inventory	ng of the baseline inventory u ds were deemed acceptable, h spreadsheet:	sed for the baseline shrub owever, VVB has following
a)	Under sheet "Ana	lysis", The sou	rce data for the values for E	BDRsf, BFOREST (t/ha) and
	CC _{SHRUB,I} have been	en provided, ho	wever, the values in the cell	cannot be traced back to
	source. The same	is applicable to p	parameter "1+Rs" in the works	heet.
b)	Formula used for "	Crown cover %"	in the worksheet "sampled poi	nts (16)" is not provided.
CME re	esponse			Date: 18/07/2023
a)	The Baseline shrul	o inventory sprea	adsheet has been updated with	n a new sheet "Ref default
	values & equations	" in which a clea	arer data source for the values	BDR _{SF} , B _{FOREST} (t/ha), Rs
	and CC _{SHRUB,i} , as v	vell as the equat	ions used in the calculations, is	s provided.
b)	The formula used f	or "Crow cover ((%)" is now provided under the	sheet "Ref default values
	& equations".			
Docum	nentation provided	by CME		
El Vera	neo_baseline shrub	biomass_v1.1.	klsx	
VVB as	ssessment			Date: 25/07/2023
a)	Based on the revie	w of the "El Vera	aneo_baseline shrub biomass_	v1.1.xlsx" under sheet Ref
	default values & e	equation, VVB c	onfirms that the source for the	ne BDR _{SF} , B _{FOREST(t/ha)} and
	CCshrub,I has been	provided and a	re valid.	
			···· ·	
b)	The formula used	for "Crown co	ver %" has been provided a	long with the source i.e.,
	"Penridge and Wa	lker (1988). The	e crown-gap ratio (C) and cro	own cover: Derivation and
	simulation study. A	ustralian Journa	I of Ecology 13: 1090-120".	
CI has	haan alaaad			
CL nas	been closed			
CL	03	Section no.	Forest management plan	Date: 03/07/2023
Descri	ption of CL			
As per	the document Fores	t Management p	blan provided:	
"50% o remove	of the Simarouba a ed".	mara and 25%	of Jacaranda copaia and Te	erminalia ivorensis will be
Howev	er, as per the VPA-I	DD, the project is	s a conservation project and th	ere is no harvesting. CME
is requ	ested to clarify on th	is.		
CME re	esponse			Date: 18/07/2023

CME response Date: 18/07/2023 The Forest Management Plan has been updated with the more appropriate technical term "thinned" in substitution of "removed". As the VVB has pointed out, this conservation project does not contemplate harvesting for commercial purposes. Thinned trees will not be removed from the planting area, but decompose there and serve to increase the organic material in the soil, soil fertility and biodiversity.

Documentation provided by CME

Forest Management Plan.pdf

VVB assessment

Date: 25/07/2023



Based on the clarification provided, VVB has reviewed the revised forest management plan. VVB confirms that thinning is the part of management practice which will improve the growth and biomass of the forest and is not being done for harvesting purposes. Furthermore, PP has clarified that the thinned trees will be left on the planting area and will serve as increasing the organic material in the soil.

CL has been closed

				D _100/07/0000					
CL	04	Section no.	Appendix 3: VPA-DD	Date: 03/07/2023					
Descript	Description of CL								
Under se applicabil include w	Under section B.2 of the VPA DD, CME has demonstrated the project's compliance with the applicability conditions of the applied methodology including demonstration that project does not include wetlands.								
However	, the following pa	aragraph under . e project area:	Appendix 3 of the VPA-DD	needs clarification on the					
"Within th	ne project area the	ere are as well re	maining old-growth and secor	ndary forest and wetlands."					
CME res	CME response Date: 18/07/2023								
VPA-DD a mislead	VPA-DD has been updated to substitute the word "wetland" by "water streams and creeks" to avoid a misleading interpretation.								
Docume	ntation provided	by CME							
BaumInv	est_VPA Colombi	a_Design-Docun	nent_v1.2.pdf						
VVB ass	essment			Date: 25/07/2023					
Based on the clarification provided, VVB confirms that the CME has revised the VPA-DD and has									
substitute	ed the term "wetla	ind" by "water st	reams and creeks". This has	been further confirmed by					
VVB that for wetlar	the project area do nds and Ramsar s	oes not constitute ites.	e any wetland by reviewing the	reports: Reports Humboldt					

CL has been closed

CL	05	Section no.	CL 01 from Sustair preliminary review	CERT comments	Date: 19/04/2023				
Descriptio	Description of CL								
CME must B.6.4 of the From table	clarify for re e VPA-DD. e 1 in Sectio	eview why the SDG n A.1.1:	3 13 values vary bet	ween table 1 in Sec	tion A.1.1 and Section				
From table 1 in Section A.1.1: 13 Climate Action (mandatory)		• Emi redu nati rem refc forr mea CO ₂	ssion uctions / ural carbon novals through prestation of mer pastureland asured in t me /ha/year.	 943,887 tCC tCO2e/year))2 (23,597)				
From B.6.4:									
Base estin	eline nate	Project	estimate	Net be	enefit				



Total	25,799	<mark>969,687</mark>	755,110
Total number of crediting years	40		
Annual average over the crediting period		<mark>24,242</mark>)	18,878

Is this because the values in B.6.4 are total including SOC and after removing buffer while in A.1.1 values are excluding buffer and/or buffer calculation?

Date: 18/07/2023

VPA-DD has been revised all the values for SDG 13 (tCO2e/year) alongside the document so they are calculated including SOC and prior buffer discount.

VPA-DD has been revised with a footnote for SDG 13 values (tCO2e/year) in Table 1 (section Landuse & Forest and Agriculture – Key Project Information) and section B.6., to explain that this value is the project estimate including SOC estimate and prior buffer discount. Similarly, the value provided under the total project estimate in B.6.4 includes an explanatory note with the same information.

Documentation provided by CME

BaumInvest_VPA Colombia_Design-Document_v1.2.pdf

VVB assessment

Date: 25/07/2023

VVB has reviewed the revised VPA-DD and confirms that CME has revised all the valued for SDG 13 and is consistent in the whole document. The project estimate removals for the whole crediting period is 971,568 tCO₂ with an annual average removal of 24,289 tCO₂e/year which is prior the buffer deductions and including SOC removal values.

CL has been closed

CL	06	Section no.	CL 02 from SustainCERT preliminary review comments	Date: 19/04/2023			
Descript	ion of CL						
CME may	y optionally i	nclude further sup	porting documentation at validation regard	ding funding sources in			
support t	o the claim c	of ongoing financia	al need.				
CME res	sponse			Date: 18/07/2023			
Section E	3.5.2 of the V	/PA-DD has been	updated. A simple cost analysis demonst	rates that the proposed			
A/R activ	rity generate	s no financial be	nefit other than VER related income, and	thus how the finance			
derived f	rom the Gold	d Standard Certific	cation is material to the ongoing sustainab	vility of the Project.			
Docume	ntation prov	vided by CME					
Simple Cost Analysis.xlsx							
VVB ass	essment			Date: 25/06/2023			
VVB con	firms that C	CME has provide	d the simple cost analysis document d	lemonstrating that the			
proposed A/R activity generates no financial benefit other than VER related income, and thus how the							
finance derived from the Gold Standard Certification is material to the ongoing sustainability of the							
Project.							
CL has b	een closed						

CL	07	Section no.	CL 03 from SustainCERT preliminary review comments	Date: 19/04/2023
Descript	tion of CL			



CME may optionally include documents/excel sheets demonstrating overview of project finances that demonstrates how the finance derived Gold Standard Certification is material to the ongoing sustainability of the Project during validation.

CME response

Date: 18/07/2023

Section B.5.2 of the VPA-DD has been updated. A simple cost analysis demonstrates that the proposed A/R activity generates no financial benefit other than VER related income, and thus how the finance derived from the Gold Standard Certification is material to the ongoing sustainability of the Project.

Documentation provided by CME

Simple Cost Analysis.xlsx

VVB assessment

Date: 25/06/2023

VVB confirms that CME has provided the simple cost analysis document demonstrating that the proposed A/R activity generates no financial benefit other than VER related income, and thus how the finance derived from the Gold Standard Certification is material to the ongoing sustainability of the Project.

CL has been closed

CL	08	Section no.	OBS 01 from SustainCERT preliminary review comments	Date: 19/04/2023				
Descript	ion of CL							
Some mi	nor editorial	changes CME ca	n optionally make in VPA-DD KPIs to imp	rove documentation:				
- Each re	al case VPA	title must be pref	ixed with PoA GS ID that VPA is linked to	. Example:				
POA GS	ID - VPA Nu	umber - VPA Title						
GS001 V	PA-1 Choyb	alsan cookstoves	in Mongolia					
			, and the second s					
"Title of	VPA" - Each	regular VPA title	must be prefixed with the corresponding	real case VPA GS ID				
followed	by PoA GS I	D that VPA is link	ed to. See example:					
POA GS	ID – Real ca	ase VPA ID – Rea	I case VPA number– Regular VPA Title					
GS001 G	S0025 RVP	A-1 Choybalsan o	cookstoves in Mongolia					
CME response Date: 18/07/2023								
The VPA	-DD has bee	en updated with th	ne "title of the corresponding real case VP.	A" and the "title of				
VPA" as	indicated in	the description of	this CL.					
_								
Docume	ntation prov	vided by CME						
BaumInv	BaumInvest_VPA Colombia_Design-Document_v1.2.pdf							
VVB ass	VVB assessment Date: 25/07/2023							
CME has appropriately revised the "title of the corresponding real case VPA" and the "title of VPA" which								
is in com	is in compliance with the GSF registry and has been reviewed by VVB.							
CL has b	been closed							

CL	09	Section no.	OBS 02 from SustainCERT preliminary review comments	Date: 19/04/2023	
Descript	ion of CL				
The CME is requested to upload an English translation of the following documents: "Matricula_Grundbuchauszug El veraneo auf BICO_11.11.2022.pdf." "Company Registry BICO (Camara de Comercio) 03.04.2023.pdf".					
CME res	sponse			Date: 18/07/2023	
The above-mentioned document "Company Registry BICO (Camara de Comercio) 03.04.2023.pdf" has been replaced with the more updated document "HR-Auszug BICO_Camara de comercio_25.05.2023.pdf".					
BICO_11 submittee	15h translatio .11.2022.pd d to the VVB	on of the documer f" and "HR-Auszu alongside with th	its "Matricula_Grundbuchauszug El veran g BICO_Camara de comercio_25.05.202 is response.	eo auf 3.pdf" have been	



Documentation provided by CME

Matricula_Grundbuchauszug El veraneo auf BICO_11.11.2022_ENG.pdf HR-Auszug BICO_Camara de comercio_25.05.2023_ENG.pdf

VVB assessment

Date: 25/07/2023

CME has provided with the updated document "Matricula_Grundbuchauszug El veraneo auf BICO_11.11.2022_ENG.pdf & HR-Auszug BICO_Camara de comercio_25.05.2023_ENG.pdf". VVB has reviewed the document and confirms that the documents provided are in English translation and are valid.

CL has been closed

CL	10	Section no.	OBS 03 from SustainCERT preliminary review comments	Date: 19/04/2023		
Descript	tion of CL		•			
The CME may optionally include the actual map in "Section A.2 – Location of the VPA" of the VPA-DD rather than referencing the separate attachment "Map01_Project_location.pdf". Rating agencies often demand Shapefiles of project areas if the maps are referenced in separate documents and not included in the report						
CME re	CME response Date: 18/07/2023					
The VPA	-DD has be	en revised to inclu	de a map of the project location in sectior	n A.2.		
Docume	ntation pro	vided by CME				
BaumInv	BaumInvest_VPA Colombia_Design-Document_v1.2.pdf					
VVB ass	essment			Date: 25/06/2023		
VVB confirms that CME has incorporated the map of the project location in section A.2 of the revised VPA-DD and is valid and consistent with the shapefiles provided.						

CL has been closed

CL	11	Section no.	OBS 04 from SustainCERT preliminary review comments	Date: 19/04/2023
Descript	tion of CL			
PD may	include supp	orting documenta	ation to demonstrate project start date at th	ne time of validation.
CME re	sponse			Date: DD/MM/YYYY
NA				
Docume	ntation prov	vided by CME		
Acknowle	edgement of	start date.pdf		
VVB ass	essment			Date: 25/06/2023
VVB confirms that CME/PD has provided with the letter from the implementation partner, confirming the start date of the project along with the photographs from the day of first planting i.e., 2 nd May 2023.				

CL has been closed

CL 12: Indirect volume instead of direct biomass equations employed

TR re-assessment 2 August 2023

CME must use direct methods for calculating biomass, namely allometric equations including species-specific wood density, particularly since no commercial harvesting is planned. **CME response**

Date: 04-08-2023

Using site-adapted native tree species for forest landscape restoration in tropical countries of Central and South America which are not being used for commercial plantations is still a very uncommon practice. Research on growth parameters for most of these species is rarely carried out since there is neither economic nor silvicultural motivation to do so and hence robust species specific allometric equations can hardly be found. Because of the lack of species-specific allometric equations fitting the local context, we used several different generic allometric equations for the estimation of



biomass volumes. The followed-up outlier analysis and statistical precision test on the resulting dataset ensure the robustness of the data.

Species-specific wood density has been included in the excel sheet (see excel sheet "Tree booklet_data", column C).

CME evidence

VVB assessment

Date: 07-08-2023

VVB, based on own internet research, confirms that there is no literature study with the same model and interventions for direct AGB calculation, in the project region. VVB, based on the review of the exante carbon calculation sheet, confirms that CME has referred to allometric equations from variety of data sources (Chave 2005_1, Chave 2005_h, Chave 2014, Brown 1997, ICRAF, Brown 1989_dbh, Brown 1989_h), based on forest type "Tropical wet forest", followed by outlier analysis for each species. Furthermore, an statistical analysis has been conducted with a 20% precision level to obtain a conservative AGB value.

CL has been closed

CL 13: Template formatting errors	
TR re-assessment	
2 August 2023	
Appendix 1 in "Key Project Information & VPA Design Document 29.06.23" i	includes multiple
references to "ERROR! REFERENCE SOURCE NOT FOUND" that PP mus	st correct.
CME response	Date: 04-08-2023
The above-mentioned error comes from saving the GS template word docu	ment to a ".pdf" file. The
CME has manually corrected the entries with the error.	
CME evidence	
BaumInvest_VPA Colombia_Design-Document_v1.2.pdf	
VVB assessment	Date: 07-08-2023
VVB confirms that CME has revised the references in the revised VPA-DD.	

CL has been closed

Table 2.CAR from this validation

CAR	01	Section no.	Editorial, GS VPA-DD	Date: 24/05/2023
Descri	ption of CAR			
CME is	requested to revis Use the latest ver	se the VPA DD a sion of the VPA	s following: DD template v2.2.	
•	Revise the corre sections.	ct name of the	soil type- Ferralsols instead o	of Ferrasols in the relevant
•	Revise the Section the document Pol	on 5.2.2 number A requirements.	under section F of the GS VPA	A-DD to section 6.1.2 as per
•	Provide non-eligit	ole area in page	4 under Land-use & forest and	Agriculture- KPI

• Numbering sequence under section B.2

CME participant response

Date: 18/07/2023



The VPA-DD has been revised as following:

- Updated to the latest version of the VPA-DD template v2.3. (publication date 29/06/2023)
- Revised with the correct name of the soil type "Ferralsols".
- Revised with the section number 6.1.2 as per the document PoA requirements.
- Updated with the non-eligible area in page 4 under Land-use & Forest and Agriculture Key Project Information, as well as in the section A.1 Purpose and general description of project.
- Revised numbering sequence under section B.2.

Documentation provided by CME

VVB assessment

BaumInvest_VPA Colombia_Design-Document_v1.2.pdf

Date: 25/06/2023

- CME has revised the VPA-DD template to the latest version i.e., v2.3 (publication date 29/06/2023).
- CME has satisfactorily revised the name of soil "Ferralsol" in the relevant sections of the VPA-DD.
- CME has satisfactorily revised the section number as per the document PoA requirements.
- CME has incorporated the non-eligible area in page 4 as well as in the section A.1 of the revised VPA-DD.
- The numbering sequence has been revised under section B.2 of the revised VPA-DD.

Overall, VVB confirms that CME has satisfactorily done the requested corrections in the revised VPA-DD.

CAR has been closed

CAR	02	Section no.	B.3 GS VPA-DD	Date: 03/07/2023		
Descri	ption of CAR					
CME is applied	CME is requested to provide description of other emissions in accordance with section 3.8 of the applied methodology, under section B.3 of the GS VPA-DD.					
CME re	esponse			Date: 18/07/2023		
fertilise calcula	fertilisers and use of machinery. Thus, section B.6.3., under SDG 13, and the ex-ante carbon calculation sheet, have been updated accordingly with the updated description of other emissions.					
Docum	nentation provide	d by CME				
Baumlı	nvest_VPA Colom	bia_Design-Docι	Iment_v1.2.pdf			
Carbor	n fixation_COL01_	v1.2.xlsx				
VVB as	VVB assessment Date: 25/07/2023					
Based emissic the em carbon	Based on the revised VPA-DD and the ex-ante carbon calculation sheet, VVB confirms that the emissions from fertiliser use has been incorporated in the section B.3 of the VPA-DD and accordingly, the emissions has been subtracted from the removals for each year of application in the ex-ante carbon calculation sheet.					

CAR has been closed

CAR	03	Section no.	Page 29, GS VPA-DD	Date: 03/07/2023			
Descrip	Description of CAR						
The link	The link provided under footnote in page 29 of the GS VPA-DD is not accessible. CME is requested						
to revise	to revise the document and provide with appropriate link.						
CME re	CME response Date: 18/07/2023						
The link	c provided for Cold	ombia NDS unde	r a footnote has been updated	I in the VPA-DD.			
Documentation provided by CME							
BaumInvest_VPA Colombia_Design-Document_v1.2.pdf							
VVB as	sessment			Date: 25/07/2023			



CME has revised the footnote in the revised VPA-DD for Colombia NDS and is now accessible.

CAR has been closed







3. The shapefiles for "Forest Cover 2010 and Forest Cover2022" of "Eligible_area_Veraneo.shp" as referred in the report "Report - BaumInvest El Placer - Final 230605.pdf" shall be provided to the VVB for validation.



CME response

Date: 18/07/2023

- 1. Both shapefiles for the project area and eligible area *have been revised so there is* no *topological inconsistency or displacement between them.* Both shapefiles have been submitted to the VVB alongside with this response.
- 2. The shapefile "Buffer_incendios_Veraneo" illustrates the fire corridors that will be maintained as a prevention measure against fires, to break the discontinuous on vegetation between the gallery forest and the plantation. These fire breaks are set in existing pastureland; existing forest will never be removed for this purpose. The comparison with the eligible area is irrelevant, since the mentioned "forest boundaries" are based on the forest / non-forest assessment and are therefore not necessarily the same as the "forest boundaries" of today.
- 3. The shapefile of Veraneo forest cover in 2010 has been submitted to the VVB alongside with this response.

Documentation provided by CME 1. Project_area_Veraneo.zip

- Eligible_area_Veraneo.zip
- 3. Forest Cover 2010 30m Veraneo.zip

VVB assessment

Date: 25/07/2023



CME has provided with the revised shapefiles along and has done the requested corrections which are valid in opinion of VVB. CAR has been closed

CAR	05	Section no.	C.2, VPA-DD	Date: 03/07/2023			
Descrip	Description of CAR						
As per s	section C.2 of the \	/PA-DD, the cred	liting period is 02/05/2023 to 02	2/05/2063. CME is requested			
to corre	ct the end date of	crediting period	of 40 years.				
CME re	sponse			Date: 18/07/2023			
VPA-DI	D section C.2 has	been revised wit	h the correct end date of the c	rediting period of 40 years.			
Docum	entation provide	d by CME					
BaumIn	vest_VPA Colom	bia_Design-Docι	Iment_v1.2.pdf				
VVB as	sessment			Date: 25/07/2023			
CME has done the requested correction under section C.2 of the revised VPA-DD. The crediting							
period is from 02/05/2023 till 01/05/2063.							
CAR ha	as been closed						

CAR has been closed

CAR 06	Section no.	FAR from SustainCERT	Date: 19/04/2023		
Description of CAR					
The CME shall supply s allocation may be delayed calculations, survey resul	upporting data I. This includes a ts, study reports	for all parameters in time for valida ind is not limited to: Maps, ER spreads etc. as included in the PoA and VPA	ation/design review, or sheets, individual study		
CME response			Date: 18/07/2023		
The CME has provided th review.	e VVB with all su	upporting data for all parameters in tir	ne for validation/design		
Documentation provide	d by CME				
KML files, Ex-ante carbor	n calculation she	et, Baseline shrub biomass sheet, et	с.		
VVB assessment			Date: 25/07/2023		
VVB confirms that CME Maps, ER spreadsheets, the PoA and VPA. CAR has been closed	VVB confirms that CME has provided all the supporting documents including and is not limited to: Maps, ER spreadsheets, individual study calculations, survey results, study reports, etc as included in the PoA and VPA.				
CAR 7(I-III): A typical m	anagement inter	ventions			
2 August 2023					
PP must define management interventions in greater detail for entire planned 40 year project length. (7-i) What is frequency and intensity of thinnings; (7-ii) How will harvested biomass be disposed since leaving biomass on-site to decompose is not operationally feasible in planted forests; and (7-iii) What are projected financial costs for precommercial thinning?					
CME response			Date: 04-08-2023		
Defining the manageme for the given conservation fixed silvicultural scheme one case naturalized) tro Management intervention monitoring of the plantee patterns of the forest in	nt interventions on project. In cor e is well-known a ee species which ons for the given d forest and will order to ensure a	for the entire planned 40-year project ntrast to commercial timber productio and applied, the given project uses a n do not rely on pre-defined specific s conservation project will be a result of be carried out according to the growt a healthy and constant growth.	t length is not possible n projects, where a mix of native (and in silvicultural schemes. of the constant h dynamics and		
CME evidence					
			D ete: 07.00.0000		
VVB assessment			Date: 07-08-2023		



Based on the response of the CME, VVB confirms that the provided response deemed to be valid as in context of conservation project, the natural forest involves different edaphic and site-specific factors influencing the growth of the same planted tree species in different locations of the project area. Thus, the management intervention cannot be pre-planned and will be developed as the project moves forward. Furthermore, VVB confirms that financial cost analysis is not required as the project is a conservation project and does not include harvesting.

CAR has been closed

Table 3.FAR from this design certification

FAR XX	Section no. NA	Date: DD/MM/YYYY					
Description of FAR							
Not applicable							
CME response		Date: DD/MM/YYYY					
Documentation	provided by CME						
VVB assessment Date: DD/MM/YYYY							



Appendix 2. Safeguarding Principles Assessment

Assessment Questions/ Requirements	Justification of Relevance (Yes/potentially/no)	How Project will achieve Requirements through design, management or risk mitigation.	Mitigation Measures added to the MonitoringPlan (if required)	VVB Assessment
Principle 1. Human Rights				
The Project Developer and the Project shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights. The Project shall not discriminate with regards to participation and inclusion	Yes	The project developer takes care that the project respects internationally proclaimed human rights and is not complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights. Colombia has ratified many UN Human Rights conventions. Participation in the project (e.g. in form of employment) is open to anyone in the area without discrimination of gender, religion or sexual orientation. So far, no cases of discrimination have been identified. See internal company policy "Internal working regulations" (see document "Reglamento Interno de Trabajo.pdf").	N/A	Appropriateness for this safeguarding principle has validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders
Principle 2. Gender Equality				
The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women. Projects shall apply the principles of non-discrimination, equal treatment, and equal pay for equal work.	Yes	It is not either foreseen that the Project would adversely affect man and women in marginalized or vulnerable communities. The Project takes into account gender roles and the abilities of women and men to participate in the decision/designs of the project activities. For example, the stakeholder consultation in	N/A	Appropriateness for this safeguarding principle has been validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders



The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks Summary of opinions and recommendations of an Expert Stakeholder(s).	afety and Working Conditions	the project design phase includes both women and men participating in the consultation meeting. The project activity doesn't endorse any form of discrimination based on gender. Colombia has ratified ILO Conventions 100 (Equal Remuneration Convention) and 111 (Discrimination (employment and occupation). Women can participate to the project and will therefore not put at risk women's or any other marginalized groups access to or control of resources, entitlements and benefits		
The Project shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community.	Yes	The project activity doesn't expose the community to increased health risks and is not adversely affecting the health of workers and the community. For example, the workers participating in the project activity are not exposed to unsafe or unhealthy work environments as the planting and maintenance activities on the plantations will not include any hazardous chemicals or other hazardous material.	N/A	VVB during the on-site inspection and interviews/i-xxv/, confirms that the project activity does not expose the community to increased health risks and there is no application of hazardous chemicals or other hazardous material during the plantation activity.
Principle 4.1 Sites of Cultural an	d Historical Heritage			
Does the Project Area include	No		N/A	VVB, based on interviews with the
sites, structures, or objects with	The project activity doesn't			local communities, confirms that
historical, cultural, artistic,	include sites, structures or			the project area does not include
traditional or religious values or	objects with historical, cultural,			sites, structures, or objects with



	values or intangible forms of culture.			traditional or religious values or intangible forms of culture.	
Principle 4.2 Forced Eviction and Displacement					
Does the Project require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?	No The PPs hold uncontested legal land titles for the areas. No population displacement is foreseen nor desirable because people from the nearby communities is employed for establishment and maintenance activities and help to ensure the project success.		N/A	VVB, based on the supporting evidence ^{/13/14/} confirms that the land is held by the CME via VPA implementer and there is no population displacement due to project implementation.	
Principle 4.3 Land Tenure and Of	her Rights				
Does the Project require any change, or have any uncertainties related to land tenure arrangements and/or access rights, usage rights or land ownership? For Projects involving land use tenure, are there any uncertainties with regards to land tenure, access rights, usage rights or land ownership?	No The Project doesn't require any change to land tenure arrangements and/or other rights. The PPs hold uncontested legal land titles for the areas. N/A		N/A	VVB, based on the supporting evidence ^{/13/14/} confirms that the land is held by the CME via VPA implementer and does not require any change in land tenure arrangements and/or rights.	
Principle 4.4 - Indigenous people					
Are indigenous peoples present in or within the area of influence of the Project and/or is the Project located on land/territory claimed by indigenous peoples?	No There are no indigenous people present in or within the area of influence of the project. The project is not located on land/territory claimed by indigenous people.		N/A	Based on the on-site inspection and interviews/i-xxv/, VVB confirms that there are no indigenous peoples present in or within the area of influence of project.	
Principle 5. Corruption					



The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	Yes	The Project doesn't involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects. The Project is implemented on CME's own land holding uncontested legal land titles for the areas Anti-corruption policy is defined in the internal company policy "Internal working regulations". Colombia has signed the OECD anti-bribery convention which is followed by BaumInvest (See: Colombia – OECD Anti-Bribery Convention – OECD).	N/A	Appropriateness for this safeguarding principle has been validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders
Principle 6.1 Labour Rights				
The Project Developer shall ensure that all employment is in compliance with national labour occupational health and safety laws and with the principles and standards embodied in the ILO fundamental conventions. Workers shall be able to establish and join labour organisations. Working agreements with all individual workers shall be documented and implemented and include: a) Working hours (must not exceed 48 hours per week on a regular basis), and b) Duties and tasks, and c) Remuneration (must include provision for payment of overtime), and d) Modalities on health insurance, and e) Modalities on termination of	Yes	The Project is implemented on CME's own land holding uncontested legal land titles for the areas. The employees' rights are a cross-cutting issue and respected by Bauminvest (see "Reglamento Interno de Trabajo.pdf"). Colombia has ratified many ILO Conventions, amongst others convention 87 (Freedom of Association and Protection of the Right to Organise Convention) and convention 98 (Right to Organise and Collective Bargaining Convention) . Workers can at any time establish or join labour organisations (see "Reglamento Interno de Trabajo.pdf"). Regarding the project management, the necessary staff has been hired following labour laws accordingly.	N/A	VVB, based on the supporting evidence ^{/19/} , confirms that the project activity ensures the appropriateness of the principle. This has been further confirmed through interviewing the CME and local stakeholders.



the contract with provision for voluntary resignation by employee, and f) Provision for annual leave of not less than 10 days per year, not including sick and casual leave. No child labour is allowed (Exceptions for children working on their families' property requires an Expert Stakeholder opinion) The Project Developer shall ensure the use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures		The working agreements with the individual workers will be documented and implemented and the minimum requirements stated in the section of GS4GG Safeguarding Principles & Requirements will be respected whenever applicable. All the possible staff hired by the project implementer has a minimum age of 18. Colombia has ratified ILO Conventions 138 (Minimum Age Convention) and 182 (Worst Forms of Child Labour Convention). All the works will be made by using appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures.		
Principle 6.2 Negative Economic	Consequences			
Does the project cause negative economic consequences during and after project implementation?	No The project has in any case positive economic consequences derived from the employment of local people.		N/A	VVB, based on interviews with the local stakeholders and CME, confirms that the project does not cause any negative economic consequences during and after project implementation. The project has employed people in the planting activities.
Principle 7.1 Emissions				
Will the Project increase greenhouse gas emissions over the Baseline Scenario?	No The project will reduce the GHG emissions as it will be monitored and verified in line with the GS4GG.		N/A	VVB confirms that the project will sequester GHG emissions from the atmosphere through the plantation of trees.



Principle 7.2 Energy Supply				
Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?	No Energy supply for BaumInvest AG, with main office located in Freiburg (Germany), and BaumInvest Latinoamerica Limitada with main office in Costa Rica (located in San José) uses energy from a national or regional grid. The main energy supply needed within the plantations 'area is for the machinery use for the establishment and maintenance of plantations and infrastructure. Therefore, the main energy required is fuel.		N/A	The energy supply for the maintenance of the plantation area is through fuel. VVB, based on on-site inspection confirms that the project does not use energy from a local grid or power supply not connected to a national or regional grid.
Principle 8.1 Impact on Natural V	Vater Patterns/Flows			
Will the Project affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	No The Project does not change or impact the flow of any water body. No dam is planned as part of the Project. It is not expected that the Project negatively affect the groundwater. On the contrary, increased vegetation through planted trees enables a better water infiltration, having positive impacts on the availability of groundwater. The Project does not consider the irrigation of plantations, plantations are naturally irrigated by rainwater. The only water required is the one used in the nurseries for watering the seedlings.		N/A	Appropriateness for this safeguarding principle has been validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders



Principle 8.2 Erosion and/or Water Body Instability

Could the Project directly or	No	 N/A	VVB, based on the review of the
indirectly cause additional	The project complies with the		mandatory laws and legislations
erosion and/or water body	host country's legislation for the		and on-site
instability or disrupt the natural	protection of buffer zones		inspection/interviews/i-xxv/,
pattern of erosion?	alongside water sources.		confirms that the project is in
Is the Project's area of influence	According to the law nº 79		compliance with the laws and
susceptible to excessive erosion	(1986)23, "The following will be		does not directly or indirectly
and/or water body instability?	declared protective forest reserve		cause the erosion and/or water
	areas for the conservation and		body instability.
	preservation of water: a) All		
	forests and natural vegetation		
	found in permanent or non-		
	permanent water sources,		
	covering an extension of no less		
	than two hundred (200) metres,		
	measured from the periphery. b)		
	All forests and natural vegetation		
	existing in a strip not less than		
	one hundred (100) metres wide,		
	parallel to the maximum tide		
	lines, on each side of the beds of		
	rivers, creeks and streams,		
	permanent or not, and around		
	lakes, lagoons, swamps, or water		
	reservoirs that supply dams for		
	hydroelectric or irrigation		
	services, rural and urban		
	aqueducts, or are destined for		
	human consumption, agriculture,		
	livestock, aquaculture or for		
	social interest uses".		
	Furthermore, it is expected that		
	forest plantations of the Project		
	contribute to soil stability, hence		
	the project activity will actually		
	contribute to reduce the risk of		
	erosion and/or Water Body		
	Instability.		
Principle 9.1 Landscape Modifica	ation and Soil		



Does the Project involve the use of land and soil for production of crops or other products?	No The Project doesn't involve the use of land and soil for production of crops or other products. However, intercropping may take place within the plantation areas.	 N/A	VVB confirms that the project does not involve the use of land and soil for production of crops or other products.
Principle 9.2 Vulnerability to Nat	ural Disaster		
Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	Potentially The Project is potentially susceptible to extreme climatic conditions as flooding or droughts, but risk mitigation measures reduce vulnerability. On the contrary, regrowing forest landscapes will lead to decreased vulnerability to natural disasters	 N/A	VVB has reviewed the potential risks to the project in section 4.20 of this report along with the mitigation measures taken.
Principle 9.3 Genetic Resources			
Could the Project be negatively impacted by or involve genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development, or take place in facilities or farms that include GMOs in their processes and production)?	No The Project doesn't involve / or be negatively impacted by the use of genetically modified organisms or GMOs	 N/A	Appropriateness for this safeguarding principle has been validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders
Principle 9.4 Release of pollutan	ts		



Could the Project potentially result in the release of pollutants to the environment?	No The Project is not potentially resulting in release of pollutants to the environment.		N/A	VVB, based on the on-site inspection interviews confirms that the project activity does not result in release of pollutants to the environment.
Principle 9.5 Hazardous and Non-hazardous Waste				
Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non- hazardous chemicals and/or materials?	No The Project is not involving the manufacture, trade, release, and/or use of hazardous chemicals and or materials.		N/A	VVB, based on the on-site inspection interviews confirms that the project activity is not involved in the manufacture, trade, release and/or use of hazardous chemical and/or materials.
Principle 9.6 Pesticides & Fertilis	sers			
Will the Project involve the application of pesticides and/or fertilisers?	No The Project does not conceive the application of any kind of pesticides and/or chemical fertilisers. The use of any kind of chemical goes against BaumInvest project principles. Under extraordinary circumstances the use of pesticides might be temporarily and locally considered if and where necessary. In this situation, the use of biological pesticides has preference over any other conventional pesticide		N/A	VVB confirms that the project does not involve the application of pesticides and/or chemical fertilisers. This has been further confirmed during the on-site inspection and interviews.
Principle 9.7 Harvesting of Fores	its			
Will the Project involve the harvesting of forests?	No The project objective and silvicultural method applied is "Conservation Forest", and therefore does not conceive the harvesting of forests		N/A	VVB confirms that the project is a conservation project aiming at restoring the degraded grassland with forest. The project does not includes harvesting but may consider silvicultural management



				practices like thinning and pruning for improved growth of the forest.
Principle 9.8 Food				
Does the Project modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	No The Project doesn't modify the quantity or nutritional quality of food available.		N/A	Appropriateness for this safeguarding principle has been validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders
Principle 9.9 Animal husbandry				
Will the Project involve animal husbandry?	No The Project doesn't involve animal husbandry.		N/A	Appropriateness for this safeguarding principle has been validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders
Principle 9.10 High Conservation	Value Areas and Critical Habitats	; ;		
Does the Project physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	No The project does not negatively affect or alter intact or HCV ecosystems, critical habitats, landscapes, key biodiversity areas. On the contrary, the project will protect biodiversity through the conservation of natural habitats and enhancing habitat connectivity.		N/A	Appropriateness for this safeguarding principle has been validated and confirmed through review of supportive document and on-site inspection interviews with: • Representatives of CME • Local Stakeholders
Principle 9.11 Endangered Speci	es			



Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)? Does the Project potentially impact other areas where endangered species may be present through transboundary affects?YesTEndangered species include species like the igguar (<i>Panthera onca</i>), the ocelot (<i>Leopardus pardalis</i>), the white-bellied spider monkey (<i>Ateles belzebuth</i>), the giant anteater (<i>Myrmecophaga</i> tridacty/a), the giant armadillo (<i>Priodontes maximus</i>) and the giant otter (<i>Pteronura</i> brasiliensis). The emblematic "Ilanero" caiman (<i>Caiman</i> intermedius), one of the most studied crocodiles in the basin, is critically endangered. The morrocoy and charapa turtles (<i>Geochelone denticulate</i> and <i>Podocnemis</i> expansa), are also in danger of extinction. There could be more endangered species in the project area. A biodiversity study on herpetofauna will be carried out in April 2023, providing with a list of species seen in the baseline scenario, and classified (if applicable) under the appendix I, ll and ll of the CITIES list	The project (forest restoration) will help the endangered species being protected. The project creates the habitat for those endangered species, and enlarge the area of distribution of species by connecting with remanent riparian forest.	The "Number of herpetofauna, and the number of threatened species of herpetofauna present in the project" is monitored. See section B.7.1.	VVB confirms that the mitigation measure has been added in the monitoring plan and the biodiversity assessment report ⁽²⁹⁾ has been provided conducted by the third party Senckenberg Forschungsinstitut und Naturmuseum.
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Appendix 3 – Certificates of Competence







Carbon Check (India) Private Limited

Certificate of Competency

Ms. Isha Kapoor

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

🛛 Validator	🛛 Verifier	🛛 Team Leade	r	🛛 Technical Expert
Technical Reviewer	🗆 Health Expert	🗆 Gender Exp	ert	Plastic Waste Expert
□ SDG+	□ Social no-harm(S+)	🗆 Environmer	nt no-harm(E+)	CCB Expert
🗆 Financial Expert	☑ Local Expert for Ind	lia		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	in the follo	following Technical Areas:		
🗆 TA 1.1	🗆 TA 1.2	🗆 TA 2.1	🗆 TA 3.1	🗆 TA 4.1
🗆 TA 4. n	🗆 TA 5.1	🗆 TA 5.2	🗆 TA 7.1	🗆 TA 8.1
🗆 TA 9.1	🗆 ТА 9.2	🗆 TA 10.1	🗆 TA 13.1	🗆 TA 13.2
🛛 TA 14.1	🗆 TA 15.1			
				4 20 20 20 20 20 20 20 20 20 20 20 20 20
lssue	Date		Expiry	/ Date
1 st Janua	ary 2023	31 st December 2023		nber 2023
Vixash L	Viresh & S.S.			مرملنه
Mr. Vikash Kumar Singh Compliance Officer			Mr. Ami Cl	it Anand EO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023





Carbon Check (India) Private Limited

Certificate of Competency

Mr. Amit Anand

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

🛛 Validator	⊠ Verifier	🛛 Team Leade	r	I Technical Expert	
🛛 Technical Reviewer	🗆 Health Expert	🗆 Gender Exp	ert	🛛 Plastic Waste Expert	
⊠ SDG+	⊠ Social no-harm(S+)	🛛 Environmer	nt no-harm(E+)	🛛 CCB Expert	
🛛 Financial Expert	Local Expert for Ind	ia and South Afri	ica		
	in the follo	in the following Technical Areas:			
🛛 TA 1.1	🛛 TA 1.2	🗆 TA 2.1	🖾 TA 3.1	🗆 TA 4.1	
🗆 TA 4. n	🗆 TA 5.1	🗆 TA 5.2	🖾 TA 7.1	🖾 TA 8.1	
🗆 TA 9.1	🗆 TA 9.2	🗆 TA 10.1	🖾 TA 13.1	🖾 TA 13.2	
🛛 TA 14.1	🖾 TA 15.1				
lssue	Date		Expiry	Expiry Date	
1 st Janua	ary 2023		31 st Decer	nber 2023	
	Vixe	snd Sil			
Mr. Vikash Kumar Singh Compliance Officer					

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Carbon Check (India) Private Limited

Certificate of Competency

Mr. Bryan Conrad Foster

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

□ Validator	□ Verifier	🗆 Team Lead	ler	🛛 Technical Expert	
Technical Reviewer	🗆 Health Expert	🗆 Gender Ex	pert	🗆 Plastic Waste Expert	
□ SDG+	🗆 Social no-harm(S+)	🗆 Environme	ent no-harm(E+)	CCB Expert	
Financial Expert	☑ Local Expert for Un	ited States			
1 1 1 1 1 1 1 1 1	in the follo	n the following Technical Areas:			
🗆 TA 1.1	🗆 TA 1.2	🗆 TA 2.1	🗆 TA 3.1	🗆 TA 4.1	
🗆 TA 4. n	🗆 TA 5.1	🗆 TA 5.2	🗆 TA 7.1	🗆 TA 8.1	
🗆 TA 9.1	🗆 TA 9.2	🗆 TA 10.1	🗆 TA 13.1	□ TA 13.2	
🛛 TA 14.1	🗆 TA 15.1				
lssue	Date	Expiry Date		/ Date	
1 st Febru	iary 2023		31 st Janu	ary 2024	
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Mr. Vikash Complia		Mr. Ami	t Anand O		
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