

KURARAMA KUTHEMBA MUTY

“Kukumuty” project

Community-led Miombo enrichment and agroforestry in
Sofala, Mozambique

Annual Report Number 1
2022-2023

Codeveloped by:

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Overview

Project Title:	Kurarama Kuthemba Mutu: "Kukumuty"
Location:	Sofala, Chibabava district, Mozambique
Annual Report Number:	1
Project Period:	01/05/2022 – 01/05/2052
Reporting Period:	01/05/2022 – 30/04/2023
Date Submitted:	31/05/2024
Date Approved:	12/08/2024
Validation Date:	17/05/2024
Date of Last Verification:	NA
Project Coordinators:	Azada Verde, Reseed Indico and Climate Lab
Project Interventions:	Miombo enrichment (ecosystem restoration)

1 Project Design Updates

During the reporting period, there are no major changes or updates to the Project Design Document.

Table 1a Summary of Changes to Project Design Document

PDD Section	Description of change
-	-

Table 1b Date of Most Recent Updates

PDD Section	Required Update Frequency	Date of Most Recent Update
3.1 Baseline Scenario	Every 10-years	N/A
3.2 Carbon Baseline	Every 10-years	N/A
3.3 Livelihood Baseline	Every 10-years	N/A
3.4 Ecosystem Baseline	Every 10-years	N/A
3.5 Project Logic	Every 10-years	N/A
3.6 Project Activities	Every 10-years	N/A
3.7 Additionality	Every 10-years	N/A
3.8 Carbon Benefits	Every 10-years	N/A
3.11 Reversal of Carbon Benefits	Every 10-years	N/A
3.12 Leakage	As needed	N/A
3.13 Double Counting	As needed	N/A
4.5 Monitoring Plan (optional)	As needed	N/A
5.3 Legal and Regulatory Compliance (optional)	As needed	N/A
Annex 7 [Miombo enrichment]	Every 10-years	N/A

Table 1c Response to Corrective/Forward Actions Required

Source	CAR/FAR	Response	Status
-	-	-	-

2 Project Implementation

2.1 New Project Areas

Table 2.1 provides an overview of the project areas and participants added during this reporting period (2022-2023). Each project area is represented in a subsequent row. Note that these areas are 'new' in the sense that activities started at the beginning of this reporting period, although these have already been included in the approved PDD. Also note that during this reporting period, baselining started at the Manguenhe and Daca project areas, but these areas will be reported in the next annual report.

More details of the project areas are provided in Annex 2.

Table 2.1 New Project Areas

Project Intervention	Number of New Project Areas	Extent of New Project Areas (ha)	Number of New Project Participants
Ecosystem restoration (Miombo enrichment)	Mangunde Community Area	69ha	1394
Ecosystem restoration (Miombo enrichment)	Nhaumue Community Area	300ha	1550

2.2 Stakeholder Consultation

Table 2.2 provides a brief overview of all the stakeholder consultation activities that have been carried out during this reporting period (2022-2023).

More details of the stakeholder consultation activities are provided in Annex 3.

Table 2.2 Stakeholder Consultation Activities

Activity	Stakeholder Group	Description	Participants/Recipients	Evidence
Project presentation	District government	The project was of great interest to the government, given Mozambique is one of the most vulnerable countries to natural disasters like cyclones and the impact of climate change, especially in the Sofala province. Moreover, deforestation is a prominent challenge in the region, driven by a.o. over-exploitation of	Total participants: 8	Project presentation report (A31)

		wood, charcoal production and other activities. The ecosystem restoration project is well accepted and aligns with the governments efforts to address deforestation.		
Sensitivity meetings	Communities involved: Mangunde, Nhaumue, Daca and Manguenhe	The communities unanimously embraced the project, highlighting that it is of great value for community life. The support stems from the project role in safeguarding access to scarce forest resources at community level and addressing the impact of climate change, which is already affecting agricultural production.	47	List of participants & Photographs (A32)
Socioeconomic study within the communities involved: • Use and exploitation of community lands and forestry products • Assessment of climate change at regional level and the impact of the Búzi river on agricultural production • Production of cash crops and challenges encountered in commercialization	Communities involved: Mangunde, Nhaumue, Daca and Manguenhe	<p>The socioeconomic study pointed to some of the following situations observed and discussed:</p> <p>Forest: Exploitation of trees for the production of charcoal, firewood, production, construction stakes, building stones, opening crop fields;</p> <p>Climate change: Emergence of change in natural phenomena in the last 5 years, recorded cyclones, consecutive droughts and floods</p> <p>Agricultural production: Low production due to drought, loss of crops due to floods, cyclones, low prices in sales</p>	<p>Mangunde: Participants: 92 Men: 24 Women: 68</p> <p>Nhamue: Participants: 273 Men: 112 Women: 161</p> <p>Daca: Participants: 195 Men: 117 Women: 78</p> <p>Manguenhe: Participants: 43 Men: 30 Women: 13</p>	Photographs & Survey Report (A33)

		markets and losses due to rotting of products (linked with a lack of means of transport to the consumer market)		
Launch at the project communities	Communities involved: Mangunde, Nhaumue, Daca and Maguenhe	The communities are grateful for the project's initiative in addressing issues that have negatively affected them in recent years. They also extend their thanks to the local government for accepting to host this project for their benefit. In response, the government officially inaugurated the project, expressing their hopes for its success in enhancing community life, both now and for future generations to come.	200 (estimated)	Photographs (A34)
Community ceremonies to start project activities	Communities involved: Mangunde, Nhaumue, Daca and Maguenhe	The ceremony took place at the residence of the community leader, as a gesture of reverence to the ancestors, seeking their blessings for the smooth execution of the project activities. The ceremony concluded with a meal and refreshments for all members of the community.	250 (estimated)	Photographs (A35)
<p>Deviations from Stakeholder Engagement Plan: There are no deviations from the Stakeholder Engagement Plan</p>				

2.3 Free, Prior and Informed Consent

Table 2.3 provides a brief overview of the FPIC activities carried out during the reporting period (2022-2023). This also includes the participative and official delimitation of the project areas. We also refer to the FPIC sections in the approved PDD.

Evidence for FPIC activities is provided in Annex 4.

Table 2.3 FPIC Activities

Activity	Stakeholder Group	Description	Participants	Evidence
1. Participatory Rural Diagnosis of the Community and the Project area;	Mangunde and Nhaumue Communities	Participatory Rural Diagnosis ensures that the community has jurisdiction over the boundaries of the community; including housing, pastoral, production areas and areas proposed for the project. Consequently, DUAT procedures were launched.	Community Mangunde: 665 Men and 729 Women Community Nhaumue: 857 Men and 1016 Women	PRD Report (A41)
2. Cartography of the community map and project area		Selected community members participated in the process of Plan Vivo mapping, both on the ground and on paper. Maps were developed.	Representative community members of Mangunde and Nhaumue	Map photographs (A42)
3. Survey of community and Project area coordinates		The communities demonstrated self-governance of their boundaries. GPS coordinates were recorded.	Community nominated members (community leaders and members, 13 in total)	Descriptive memories of limits and photographs (A43)
4. Mapping communities and project areas		The communities expressed great interest in having a physical map of the community, which would enhance their understanding of the community boundaries. Maps were developed and available on paper.	4 members from each community	Maps of communities and project areas (A44)
5. Collection of soil samples	Community members	Community members participated in the collection of soil samples and are eager to get the project started. Soil samples were collected.	4 members of the community	Project areas with plots (A45)
6. Meeting with the Natural Resources Management Committee	Members of the natural resources management committee	As the project is undertaken in the name of the community and is represented by them, the NRMC has shown great interest in its potential to	31 members of the Natural Resources Management Committee	List of participants (A46)

		enhance quality of life within the communities, particularly through the social funds generated from carbon sequestration. The NRMC was formally involved in the project.		
7. Delimitation of the Nhaumue project area	Geography and cadastre technicians Azada Verde technicians	Implementation of landmarks (concrete pins) on the limits of the project areas by cadastre technicians based on community demarcation.	10 technicians	Photographs (A47)
7. Delimitation of the Mangunde project area	Geography and cadastre technicians Azada Verde technicians	Implementation of landmarks (concrete pins) on the limits of the project areas by cadastre technicians based on community demarcation.	8 technicians	Photographs (A47)
8. Submission of documents to the government to acquire the DUAT	Government	Appraisal of documents, analysis of the legal steps carried out by the project and subsequent approval and validation of the community-based demarcation of the project areas. DUATS submitted and obtained.	Government: Province of Sofala	DUAT letters (A48)
Deviations from FPIC Process: There are no deviations from the FPIC Process.				

2.4 Environmental and Social Safeguards

All environmental or social safeguards issues raised during the reporting period are included in the ESMP of the approved PDD. We refer to Section 3.9.4 of the PDD.

Table 2.4 Environmental and Social Safeguard Issues

Issue	Response
-	-

2.5 Grievances

There are no grievances raised during the reporting period.

Table 2.5a Grievance Register

Grievances Raised	Previous Grievances	Grievances Resolved	Unresolved Grievances
Non-existent	Non-existent	Non-existent	Non-existent

Table 2.5b Grievances and Resolutions

Date Raised	Grievance	Resolution	Status
Non-existent	Non-existent	Non-existent	Non-existent

3 Monitoring Results

3.1 Progress Monitoring

Table 3.1 reports on the indicator value for each of the progress indicators listed in PDD Section 4.1, and (where appropriate) describes reasons for any deviations from the stated milestones and corrective actions carried out or planned.

We include evidence for all indicator values with details of monitoring data collected in Annex 5.

Table 3.1 Progress Monitoring Results

Output/Activity	Indicator	Milestone	Indicator Value	Corrective Actions
O1 A1.3	Project area undergoing mulching activities (ha)	Full: >=10 ha/yr Missed: <10ha/yr	10ha (A51)	
A1.1 A1.2 A2.1 A2.2 A3.2 A3.3	% of participating communities having soil fertility maps, a defined mulching strategy, uncontrolled fire exposure maps, a defined fire strategy, tree maps and a defined planting strategy (%)	Full:100% Missed:<100%	100%: Included in the community meetings (A52)	
A1.4	Number of SWC structures in project area (swales or other) installed and/or maintained (#)	Full: 6 / yr Partial: 4-6/yr Missed: <4/yr	125 (A53)	

A1.5 A1.6 A2.4	Number of mulching-related, fire-related, plant related, agroforestry-related and soil-related evaluation sessions per year	No target. Full: 1 session per project area Missed: 0	7 (A52) Discussed in the community meetings (A52)	
O2 A2.3	Area of each project area surrounded by firebreak or otherwise protected against annual fire (ha)	Full: >80% Partial: 50-80% Missed: <50%	Mangunde: 62% (A54)	In the initial project year for Mangunde this target was partially missed, mainly due to logistics during start-up phase of the project. Needs follow-up in the next year: early and full completion of firebreaks.
			Nhuamue: 42% (A54)	In the initial project year for Nhuamue this target was missed, mainly due to logistics during start-up phase of the project. Needs follow-up in the next year: early and full completion of firebreaks.
A2.5 A3.6	Number of meetings per project area (#)	Full: 3 per year Partial: 1-2 Missed: 0	Mangunde: 4 (A52)	
			Nhuamue: 3 (A52)	
A2.5 A3.6	Female participation in community meetings (%)	Full: >50% Partial: 30-50% Missed: <30%	Mangunde: 75.5% (A55)	
			Nhuamue: 60.47% (A55)	

O3 A3.4	Number of Miombo seedlings planted	Full: >1500 seedlings/yr Partial: 1000-1500 seedlings/yr Missed: <1000 seedlings/yr	838 (A56)	The amount of seedlings planted in the first year was below the minimum target, because the nursery was still under development. This needs follow-up in the next year: early raising of the seedlings and full completion planting.
O3	Survival Rate of seedlings planted (%)	Full: >60% Partial: 30-60% Missed: <30%	73% (A57)	
A3.5	Index of uncontrolled fires, woodcutting, grazing and charcoal making in the project zones(*)	Full: <4 per year Partial: 4-10 Missed: >10	Mangunde: 3 (A58)	
			Nhaumue: 11 (A58)	Firebreaks Nhaumue need careful follow-up next year: see above.
<i>Monitoring for pilot activities (A59)</i>				
A3.1	Number of survey plots per project area (#)	> 80 plots	104	<i>In line with the technical specifications (Annex 7)</i>
A3.5	Number of measurements per year (temperature, rainfall, fire occurrence)	Weekly measurements (where possible: daily)	OK	<i>Evaluated in the community meetings</i>
A4.1	Organised training sessions or sensitizing events on agroforestry techniques (#)	>1 per year	1	<i>Training team members in Mezembite</i>

A4.2	Number of seedlings nurtured per nursery (#)	> 750/yr	3405	
A4.3	Number of agroforestry seedlings planted per nursery	>0.5ha during pilot phase	-	<i>Nurtured this year for planting in the subsequent year</i>
A4.4	Participants and/or annual income generated from different agroforestry crops	1 association during piloting phase	1	

(*) All disturbance events in the project area by woodcutting, charcoaling, firebreaks or grazing are monitored and scored on a scale from no disturbance (i.e. penalty score 0) to high disturbance (i.e. penalty score 5). The reported index value equals to the sum of the disturbances in the reporting year.

- (i) If the values for all indicators meet or exceed their performance target, the full issuance is received;
- (ii) If one or more of the indicator values are below its performance target for one monitoring period, the full issuance is received but corrective actions must be implemented by the next year;
- (iii) If one or more of the indicator values are partially achieved for two consecutive monitoring periods, the full issuance is received but corrective actions must be implemented.
- (iv) If one or more of the indicator values are missed for two consecutive monitoring periods, or partially achieved for three consecutive monitoring periods, certificate issuance of the project area concerned is withheld until corrective actions have been implemented and the performance target(s) have been reached.

3.2 Carbon Monitoring

Not applicable during this reporting period.

Table 3.2 Carbon Monitoring Results

Project Intervention	Number of Project Areas	Extent of Project Area	Total Carbon Benefit (t CO ₂ e)	Average Carbon Benefit (t CO ₂ e/ha/yr)
TOTAL	-	-	-	-

3.3 Livelihood Monitoring

Initial indicator values and targets are reported in the approved PDD. Full indicator explanation is provided in Section 4.3 of the approved PDD.

Table 3.3 Livelihood Monitoring Results

Indicator/ Stakeholder Group	Initial Indicator Value	Target	Current Indicator Value	Causes and Adjustments
L1	0%	3-5% of agroforestry tree species allocated for timber harvest and charcoal production over 5 years	-	-
L2	0%	50% female participation during all Community Subcommittee meetings for each project area	-	-
L3	0	1 organised training session for Agroforestry Work Groups each year	-	-
L4	0USD	Amount spent on socioenvironmental reinvestments from the sales of the PV certificates	-	-
L5	per capita GDP of between US \$185 and \$245	Significant increase ($p<0.05$) of annual cash income, <i>ceteris paribus</i> , of all participating households in the Agroforestry Work Groups (according to statistical test, weighted for inflation)	-	-
L6	0	Amount of grass allocated for cut-and-carry: significant increase ($p<0.05$) after baseline year	-	-
L7	0USD	Metical spent on activities (firebreaks, mulching, swales): significant increase ($p<0.05$) after baseline year	-	-

3.4 Ecosystem Monitoring

Initial indicator values and targets are reported in the approved PDD. Full indicator explanation is provided in Section 4.4 of the approved PDD.

Table 3.4 Ecosystem Monitoring Results

Indicator/ Project Region	Initial Indicator Value	Target	Current Indicator Value	Causes and Adjustments
E1	Shannon index = 2.78	Significant increase ($p<0.05$ as compared to the baseline) of tree-species richness, based on the Shannon diversity index.	-	-
E2	14	Significantly reduced ($p<0.05$) number of observations (<i>ceteris paribus</i>)	-	-
E3	2.78	Significant increase ($p<0.05$ as compared to the baseline) of understory richness, based on the Shannon diversity index.	-	-

4 Plan Vivo Certificates

4.1 Future Plan Vivo Certificates

Not applicable as the project does not generate Future Plan Vivo Certificates.

4.2 Reported Plan Vivo Certificates

Table 4.2a provides a summary of the number of Reported Plan Vivo Certificates (rPVCs) issued, cancelled and converted between the start of the project and the end of the reporting period.

Table 4.2a Summary of rPVCs at End of Reporting Period

		Vintage
		01/05/2022 – 30/04/2023
Status		
Transferable rPVCs	Enter the number of transferable rPVCs registered at the end of the reporting period	2550
Future Risk Buffer	Enter the number of rPVCs in the future risk buffer at the end of the reporting period	638
Achievement Management Pool	Enter the number of rPVCs in the achievement management pool at the end of the reporting period	354
Cancellations		
Transferable rPVCs	Enter the number of transferable rPVCs cancelled since the start of the project	-
Future Risk Buffer	Enter the number of rPVCs cancelled from the future risk buffer since the start of the	-
Achievement Management Pool	Enter the number of rPVCs cancelled from the achievement management pool since the start of the project	-
Conversions		
Transferable rPVCs	Enter the number of transferable rPVCs converted to vPVCs since the start of the project	-
Future Risk Buffer	Enter the number of rPVCs in the future risk buffer converted to vPVCs in the risk buffer since the start of the project	-
Achievement Management Pool	Enter the number of rPVCs in the Achievement Management Pool converted to transferable vPVCs since the start of the project	-
TOTAL	Enter the sum of all rows for each vintage.	3542

Table 4.2b Summary of rPVCs Claimed, Cancelled and Converted from this Annual Report

		Vintage

		01/05/2022 – 30/04/2023
Status		
Transferable rPVCs	Enter the number of transferable rPVCs registered for the reporting period	2550
Future Risk Buffer	Enter the number of rPVCs in the future risk buffer for the reporting period	638
Achievement Management Pool	Enter the number of rPVCs in the achievement management pool for the reporting period	354
Cancellations		
Transferable rPVCs	Enter the number of transferable rPVCs cancelled for the reporting period	-
Future Risk Buffer	Enter the number of rPVCs cancelled from the future risk buffer for the reporting period	-
Achievement Management Pool	Enter the number of rPVCs cancelled from the achievement for the reporting period	-
Conversions*		
Transferable rPVCs	Enter the number of transferable rPVCs converted to vPVCs for this verification period	-
Future Risk Buffer	Enter the number of rPVCs in the future risk buffer converted to vPVCs in the risk buffer for this verification period	-
Achievement Management Pool	Enter the number of rPVCs in the Achievement Management Pool converted to transferable vPVCs for this verification period	-
TOTAL	Enter the sum of all rows for each vintage.	3542

* This section should only be completed for the final annual report in each verification period

4.3 Verified Plan Vivo Certificates

This section is not yet applicable, since no rPVCs have been converted yet to vPVCs. This will happen after verification.

4.4 Losses and Underachievement

This section is not yet applicable, since there were no events generating or expected to generate Losses or Underachievement of Carbon Benefits.

Table 4.4 Summary of Events Generating or Expected to Generate Losses or Underachievement of Carbon Benefits

Event Number	-
Project Area(s) Affected	-
Total Extent of Project Areas Affected (ha):	-
Description	-
Cause	-
Impact	-
Response	-

5 Project Finances

This is the first annual report after registration, there have not been any sales from PVCs.

We include a copy of the VIKAP evaluated expenses in Annex 11.

Table 5a Summary of Project Finances Since the Start of the Project

Income from PVC sales*	
Project overheads*	
Monitoring, Reporting and Verification	Included in project overheads
Mangunde	Total: 0 EURO (included in overheads) Payments: 0 EURO (included in overheads) In-kind Support: 0 EURO (included in overheads) Training: 0 EURO (included in overheads)
Nhaumue	Total: 0 EURO (included in overheads) Payments: 0 EURO (included in overheads) In-kind Support: 0 EURO (included in overheads) Training: 0 EURO (included in overheads)
Amount directly beneficial to project participants and other stakeholders	0% as project is pre-carbon revenue, no deviation from the benefit sharing mechanism in PDD Section 3.16

*pricing reported for internal monitoring purposes only

Table 5b Summary of Project Finances for the Reporting Period

Income from PVC sales*	
Project overheads*	
Monitoring, Reporting and Verification	Included in project overheads
Mangunde	Total: 0 EURO (included in overheads) Payments: 0 EURO (included in overheads) In-kind Support: 0 EURO (included in overheads) Training: 0 EURO (included in overheads)
Nhaumue	Total: 0 EURO (included in overheads) Payments: 0 EURO (included in overheads)

	In-kind Support: 0 EURO (included in overheads) Training: 0 EURO (included in overheads)
Amount directly beneficial to project participants and other stakeholders	0% as project is pre-carbon revenue, no deviation from the benefit sharing mechanism in PDD Section 3.16

*pricing reported for internal monitoring purposes only

Annexes

Annex 1 – Updated Project Design Document

There are no updates of the PDD (latest version is from May 2024).

Annex 2 – New Project Participants

Attached in annex 2, we include the KML files of the project areas.

Project Area	Nhaumue	Mangunde
Name of project participant	Subcomité of Nhaumue	Subcomité of Mangunde
Location	Community of Nhaumue, see Annex 1	Community of Mangunde, see Annex 1
Project Intervention	Ecosystem Restoration	Ecosystem Restoration
Extent of project area	300 ha	69 ha
Project Agreement Reference	1	2
Start date	1 May 2022	1 May 2022
Project Requirements 2.3.1 and 2.3.2 met?	Yes	Yes

Annex 3 –Stakeholder Consultations

We provide evidence for stakeholder consultation activities listed in Table 2.2. This may include meeting notes and attendance lists, photos and videos.

Document code	Evidence provided
A31	Project presentation report – district government
A32	List of participants & photographs – sensitivity meeting
A33	Photographs & survey report – socioeconomic study
A34	Photographs – project launch
A35	Photographs –opening ceremony

Annex 4 – Free, Prior and Informed Consent

We provide evidence for FPIC activities listed in Table 2.3. This may include meeting notes and attendance lists, photos, videos and signed agreements.

Document code	Evidence provided
A41	Rural Diagnosis Report
A42	Plan Vivo maps - Maps & photographs
A43	Survey – Descriptives & photographs
A44	Mapping – Maps of project areas
A45	Soil sample collection – photographs
A46	Natural Resources Management Committee meeting - photographs
A47	Delimitation – photographs
A48	DUAT letters

Annex 5 – Progress Monitoring

We provide evidence for all indicator values in Table 3.1 with details of monitoring data collected and spreadsheets with any calculations.

Document code	Evidence provided
A51	Mulching
A52	Community meetings
A53	SWC
A54	Firebreaks
A55	Female participation
A56	Plantings
A57	SR
A58	Disturbances
A59	Pilot activities

Annex 6 – Carbon Monitoring

n/a

Annex 7 – Livelihood Monitoring

n/a

Annex 8 – Ecosystem Monitoring

n/a

Annex 9 – Future Carbon Benefits

n/a

Annex 10 – Reported Carbon Benefits

See Annex 6 of the approved PDD

Annex 11 – Audited Accounts

Below we provide a copy of the VIKAP audited finances