

# Project Performance Report

## Overview

Period of Report (Dates)	10/12/2022 - 10/12/2023
Project Title	Strategic Water Harvesting Technologies for Enhancing Resilience to Climate Change in Rural Communities in Semi-Arid Areas of Tanzania (SWAHAT)
Project Summary	
Database Number	AF00000176
Implementing Entity (IE)	National Environment Management Council
Type of IE	National Implementing Entity
Country(ies)	Tanzania
Relevant Geographic Points (i.e. cities, villages, bodies of water)	Dar es Salaam, Tanzania, Indian Ocean
Name of Implementing Entity Focal Point	National Environmental Management Council

## Project Milestones

AFB Approval Date	9/23/2020
IE-AFB Agreement Signature Date	7/30/2021
Start of Project/Programme	10/13/2021
Actual Mid-term Review Date (if applicable)	7/10/2023
Original Completion Date	10/12/2025
Revised Completion Date after approval of extension request (if applicable)	10/12/2025

## Were there any approval condition for this Project?

Yes

List each approval condition, if any, and report on the status of meeting them	
Category of condition	Gender
Condition or Requirement	Having considered the recommendation of the Project and Programme Review Committee, the Adaptation Fund Board (the Board) decides to: a) Approve the fully-developed project document, as supplemented by the clarification responses provided by the National Environment Management Council (NEMC) to the request made by the technical review; b) Approve the funding of US\$ 1,280,000 for the implementation of the project, as requested by NEMC; and c) Request the secretariat to draft an agreement with NEMC as the national implementing

	entity for the project. The agreement should include a commitment from NEMC that, prior to first disbursement, NEMC will submit more information on the communications approaches, activities, and tools mentioned in the gender- responsive approach, as outlined in the technical review. Decision B.35.a-35.b/52
Current Status	Condition met but clearance pending by the AFB Sec
Planned actions, including a detailed time schedule	Implementations of planned activities will be carried out as outlined in the Table 1 of Annex 8 of Gender responsive communication approaches, activities and tools for adaptation to climate change impacts.

**List (only) inception report/ extension request(s)/ MTR that have been prepared for the project and provide date(s) of submission for each**

Inception Report (30/10/2021)

**List the Website address (URL) of project**

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjttanS7cfund.org%2Fproject%2Fstrategic-water-harvesting-technologies-for-enhancing-resilience-to-climate-change-in-rural-communities-in-semi-arid-areas-of-tanzania-swahat-2%2F&usg=AOvVaw2GdoZt8ihwrUbXGJ7fYGc&opi=89978449>

**Project Contacts**

National/Regional Project Manager/Coordinator	Name	Email	Date
Coordinator	Fredrick Mulinda	nieaf@nemc.or.tz / kasigazi.koku@gmail.com	12/7/2022
Government(s) DA	Dr. Switbert Mukama	switbert.mukama@vpo.go.tz	12/9/2022
Executing Agency	Sokoine University of Agriculture (SUA)	kusolwap@gmail.com / kusolwa@sua.ac.tz	11/25/2022

**Financial Data**

**Disbursement of AF grant funds**

Cumulative total disbursement from Trustee to IE as of date (\$)	\$815,728.00
Estimated cumulative total disbursement from IE to EEs as of date (\$)	\$756,968.00
Project disbursement rate (%)	63.73
Project execution rate (%)	63.73
Add any comments on AF Grant Funds	THIS IS A CUMULATIVE AMOUNT OF FUNDS FROM PROPOSAL DEVELOPMENT , YEAR 1 ACTIVITIES (US\$324,071 ) AND YEAR 2 ACTIVITIES (US\$432,897 ).
Investment Income (\$)	\$0.00
Cumulative Investment Income since inception (\$)	\$0.00

**Expenditure Data**

Output	Amount
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	(\$)
Output 1.1 - Activity 1.1.3: Installation of bore holes and water supply canals for strategic interventions	\$41,000.00
Output 1.2 - Activity 1.2.1: Planting of forest trees in the catchment areas to protect water harvesting dams	\$11,580.00
Output 1.2 - Activity 1.2.2: Establish water user groups for governance mechanism for equitable water resource sharing	\$12,700.00
Output 2.1 - Activity 2.1.1: Establishment and management of community Nurseries	\$12,600.00
Output 2.1 - Activity 2.1.2: Selection and collection of the best adapted tree species for semi arid areas	\$4,680.00
Output 2.1 - Activity 2.1.3: Optimization of propagation methods for each of the selected species	\$4,600.00
Output 2.2 - Activity 2.2.1: Planting of forest trees and fruits in the farm land and degraded land for conservation	\$8,420.00
Output 2.2 - Activity 2.2.2: Management, monitoring and evaluation of performance of planted trees	\$12,200.00
Output 3.1 - Activity 3.1.3: Establishment of water distribution and nutrient recycling systems from fish to vegetable	\$6,650.00
Output 3.2 - Activity 3.2.1: Establishment and management of horticultural crops	\$6,000.00
Output 3.2 - Activity 3.2.2: Design and establish irrigation systems for horticulture crops	\$7,560.00
Output 3.2 - Activity 3.2.5: Develop vegetable nurseries, improved community vegetable gardens	\$10,225.00
Output 3.3 - Activity 3.3.2: Construction of livestock water drinking points and water delivery trenches	\$18,345.00
Output 4.1 - Activity 4.1.1: Rehabilitation of old dip tanks,	\$17,400.00
Output 4.1 - Activity 4.1.2: Formation of village committee for dip tank management	\$5,400.00
Output 5.1 - Activity 5.1.1: Conduct training workshops on safety and sustainable use of harvested water	\$8,636.60
Output 5.2 - Activity 5.2.1: Farmers Groups training on nursery techniques, establishment and management	\$8,400.00
Output 5.2 - Activity 5.2.2: Capacity building to communities on tree planting and management skills and income generation	\$9,800.00
Output 5.3 - Activity 5.3.5: Training on modern livestock management for climate change adaptation	\$6,600.00
Output 5.4 - Activity 5.4.2: Formation and training of diptank users and diptank attendants	\$5,659.40
IE fee (\$)	\$33,604.00
Execution cost (\$)	\$37,557.00

### Planned Expenditure Schedule

Output	Projected Cost (\$)	Estimated Completion Date
Output 1.2 - Activity 1.2.1: Planting of forest trees in the catchment areas to protect water harvesting dams	\$8,850.00	12/14/2023
Output 1.2 - Activity 1.2.2: Establish water user groups for governance mechanism for equitable water resource sharing	\$12,700.00	12/14/2023
Output 2.1 - Activity 2.1.1: Establishment and management of community Nurseries	\$11,600.00	3/9/2024
Output 2.1 - Activity 2.1.2: Selection and collection of the best adapted tree species for semi arid areas	\$5,000.00	3/9/2024

Output 2.2 - Activity 2.2.1:Planting of forest trees and fruits in the farm land and degraded land for conservation	\$8,000.00	3/9/2024
Output 2.2 - Activity 2.2.2:Management,monitoring and evaluation of performance of planted trees	\$12,200.00	4/19/2024
Output 2.2 - Activity 2.2.3:Supply and and demonstration of sustainable use of fuel wood through energy saving cook stoves,	\$6,000.00	4/19/2024
Output 3.1 - Activity 3.1.2:Stocking of fingerlings and management of fish ponds	\$10,100.00	4/19/2024
Output 3.2 - Activity 3.2.2:Design and establish irrigation systems for horticulture crops	\$7,860.00	4/19/2024
Output 3.2 - Activity 3.2.5:Develop vegetable nurseries, improved community vegetable gardens	\$10,460.00	4/19/2024
Output 3.3 - Activity 3.3.2:Construction of livestock water drinking points and water delivery trenches	\$9,000.00	4/19/2024
Output 3.3 - Activity 3.3.3: Establish model woodlot for rotational firewood harvesting (to replace model pasture )	\$9,000.00	4/19/2024
Output 4.1 - Activity 4.1.1:Rehabilitation of old dip tanks,	\$15,600.00	4/19/2024
Output 4.1 - Activity 4.1.2: Formation of village committee for dip tank management	\$9,900.00	4/19/2024
Output 5.1 - Activity 5.1.1:Conduct training workshops on safety and sustainable use of harvested water	\$7,200.00	4/19/2024
Output 5.2 - Activity 5.2.1:Farmers Groups training on nursery techniques, establishment and management	\$6,900.00	4/19/2024
Output 5.2 - Activity 5.2.2:Capacity building to communities on tree planting and management skills and income generation	\$10,800.00	4/19/2024
Output 5.2 - Activity 5.2.3:Dissemination for wider capacity building and knowledge dissemination	\$8,800.00	4/19/2024
Output 5.2 - Activity 5.2.4:Mainstreaming training into various platforms and establishment of farmer schools	\$9,000.00	4/19/2024
Output 5.3 - Activity 5.3.1:Training of farmers in the target communities on fish farming practices	\$8,600.00	4/19/2024
Output 5.3 - Activity 5.3.2: Development of manuals and fliers on aquaculture and value addition and marketing	\$11,400.00	4/19/2024
Output 5.3 - Activity 5.3.3 Training of farmers on value chain of different adapted commercially high value vegetable crops	\$6,800.00	4/19/2024
Output 5.3 - Activity 5.3.4 Training on apiary and postharvest handling of vegetable crops	\$4,200.00	4/19/2024
Output 5.3 - Activity 5.3.5: Training on modern livestock management for climate change adaptation	\$6,600.00	4/19/2024
Output 5.4 - Activity 5.4.1:Participatory surveillance and scouting for identification of major insect pests and vectors	\$6,000.00	4/19/2024
Output 5.4 - Activity 5.4.2: Formation and training of diptank users and diptank attendants	\$4,850.00	4/19/2024
IE fee (\$)	\$20,390.00	
Execution cost (\$)	\$22,789.00	

**Actual co-financing (if the MTR or TE have not been undertaken this reporting period, do not report on actual co-financing)**

Does this Project have Co-Financing ?	No
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How much of the total co-financing as committed in the Project Document has actually been realized? (\$)	\$0.00
Estimated cumulative actual co-financing as verified during Mid-term Review (MTR) or Terminal Evaluation (TE). (\$)	\$0.00
Add any comments on actual co-financing in particular any issues related to the realization of in-kind, grant, credits, loans, equity, non-grant instruments and other types of co-financing.	

## Risk Assessment

### Identified Risks

List all Risks identified in project preparation phase and what steps are being taken to mitigate them

Identified Risk	Current Status	Steps taken to mitigate risk
Conflict among users of water and forest resources	Low	Knowledge management regarding sensitization on water user rights in the community and climate change. Construction of livestock drinking troughs adjacent to the dam. Establishing efficient water delivery tanks and pipes for irrigation of vegetable gardens and nursery trees.
Political will at regional, district and village local government to accept and support project objectives	Low	Participatory engagement of stakeholder from the beginning of the project
Limited capacity and willingness to understand and implement project interventions	Low	Capacity building through knowledge management workshops to the community to engage themselves in the project activities.
Change price of materials for project implementation	Low	Need for regular budget review and flexibility, planning for reducing or merging or prioritizing of some activities
Delays in disbursement of funds	High	Timely reporting and application of funds, Encourage site/field visits and engagement of executing entity for visibility of project implementation. Change from quarterly to biannual disbursement of funds in order to reduce this risk. Initiate dialogue between Executing entity on financial management and resolving bureaucratic bottlenecks and prolonged delays on releasing funds for executing various project activities (especially this year)

### Critical Risks Affecting Progress (Not identified at project design)

Are there any critical risks with a 50% or > likelihood of affecting progress of project? Yes

Identify Risks with a 50% or > likelihood of affecting progress of project

Identified Risk	Current Status	Steps taken to mitigate risk
Failure of establishment of planted tree on	Low	(i) We agreed to start the new planting early on the on-set of rains to enhance establishment of seedling root systems and avoid death of seedlings (ii) We will conduct tailored trainings to communities on

degraded land due to poor rainfall		management and maintenance of newly planted trees in degraded land, (iii) We will introduce prizes to farmers who will have at least 50% of the planted trees surviving after one year since planting. (iv) Set a replanting program each year to the end of the project to ensure succession of new tree establishment.
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## Risk Measures

Were there any risk mitigation measures employed during the current reporting period? If so, were risks reduced? If not, why were these risks not reduced?

With regards to the risk mitigation, the project team embarked on undertaking knowledge management which focused on capacity building and empowerment of community members. Above that putting people's participation at the centre has been pivotal towards risk mitigations, of which SWAHAT project is employing participatory approaches through its identification, planning for solutions/interventions, implementation, monitoring and evaluation of interventions. Therefore, all these project approaches have significantly contributed towards risk mitigations.

## ESP Compliance

### Section 1: Identified ESP Risk Management

Was the ESP risks identification complete at the time of funding approval? Yes

#### 1.Compliance with the law

Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Invasions and conflicts may lead to possible property, crop, livestock losses and reduce livelihoods resilience
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	"Component 1: Activity 1.1.1, and Activity 1.1.2 where safeguard measures included: (i) Capacity building on governance of Land ownership, water user rights and forest resources, Participatory governance and management of water user rights, forest resources and Implement water resources management at target village.
List the monitoring indicator(s) for each impact identified.	(i) Number of Capacity building done on awareness creation on land laws (ii) Number of conflicts and resolutions conducted
State the baseline condition for each monitoring indicator	No conflicts were experienced this year
Describe each safeguard measure that has been implemented during the reporting period	(i) Capacity building on governance of Land ownership, water rights and forest resources, Community meetings with district representatives, local leaders and villagers to discuss the land



	ownership system at local community level, different laws and bylaws were revised, identified the legal boundaries of the land allocated for the dams (ii) Conducted workshop on Participatory governance and management of water user rights, forest resources and (iii) Capacity building was conducted with villagers on dam's water resources management at target villages.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	Very few, slow learners are still reluctant to accept total tree planting of the protected farmlands
Describe remedial action for residual impacts that will be taken	Continue capacity building and discussion with local leaders on land ownership and protection of natural resources on farmlands. Continued surveillance and awareness creation on laws and by laws related to project implementation and adaptation to climate change - report on number of conflicts and resolutions conducted

## 2.Access and equity

Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Unequal access to the use of water from the dam for livestock and farming.
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	Ensuring high levels of transparency during project design and implementation Capacity building of representatives of the disabled, the elderly, women, youth, community leaders and planners in consultative process Participatory resource management Assist communities set up mechanisms to ensure equal participation of and benefits for group
List the monitoring indicator(s) for each impact identified.	Additional focus groups discussions and household surveys will be organized during project implementation to assess effective equal participation and benefits of members
State the baseline condition for each monitoring indicator	There was no water reservoirs/dams before project intervention.
Describe each safeguard measure that has been implemented during the reporting period	Conducted a workshop on participatory water resource management Assist communities to set up mechanisms to ensure equal participation of and benefits for group members, vulnerable households, men and women, youth and elders in the project
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	Additional focus groups discussions and household surveys will be organized during project implementation to assess effective equal participation and benefits of members
Describe remedial action for residual impacts that will be taken	Further assessment of households for the effective equal participation and benefits of members

## 3.Marginalized and vulnerable Groups

Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Lack of representation and participation and decision making of some community members in the project benefits
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	<ul style="list-style-type: none"> <li>• Sensitization of the community on the project components and their rights to participate</li> <li>• Institutionalization of the project activities for continued execution</li> </ul>
List the monitoring indicator(s) for each impact identified.	Additional focus groups discussions and household surveys will be organized during project implementation to assess effective equal participation and benefits of members
State the baseline condition for each monitoring indicator	There was no marginalized social groups
Describe each safeguard measure that has been implemented during the reporting period	Village local community meeting to describe the project benefits is for every member of the village and to empower project ownership by the village members.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	Additional focus groups discussions has not observed any change to this risk for participation and equal benefits of members
Describe remedial action for residual impacts that will be taken	Further focus group discussions will be conducted to ensure equal participation and sharing of benefits.

#### 4.Human rights

Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Lack of representation and participation and decision making of some community members in the project benefits
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	<ul style="list-style-type: none"> <li>• Sensitization of the community on the project components and their rights to participate</li> <li>• Institutionalization of the project activities for continued execution</li> <li>• The project will adhere to national and international human rights standards, policies, rules and regulation</li> </ul>
List the monitoring indicator(s) for each impact identified.	-Participatory group discussion and monitoring of the progress of project implementation -Number of member composition, involvement and contribution to project interventions -Regular surveillance and abiding to grievance management mechanism -Assessment on number of reported cases of human



	right violations -Child labour cases -Discrepancies in salaries
State the baseline condition for each monitoring indicator	No violation of human rights
Describe each safeguard measure that has been implemented during the reporting period	During initiation of the project we raised awareness on human right issues that should be maintained
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	Based on the monitoring and evaluation of activities conducted, did not identify any risks on human rights, however we will keep on monitoring the potential risk on human rights.
Describe remedial action for residual impacts that will be taken	Continue monitoring the risk during the coming year.
<b>5.Gender equality and women's empowerment</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Unequal participation of women and men in the project could lead to an exacerbation of existing gender inequalities in the community, in particular unequal access to income-generating activities
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	The project is committed to ensure 50% participation of women in most project components. In this respect, Project activities in all components have to be gender sensitive and to empower women. In addition, the project will implement the following mitigation measures: - All project staff will be trained on gender-sensitive approaches. - Incorporate gender sensitive approaches into trainings, workshops and awareness raising activities. - Mechanisms for selection of beneficiaries will be gender-sensitive in order to ensure equal participation of men and women taking into consideration different needs. - A socioeconomic and gender specialist will accompany communities in the development, implementation and monitoring of the plans developed through the participatory process. - Develop capacity building for women empowerment and continued monitoring and support of their involvement in the community
List the monitoring indicator(s) for each impact identified.	"Conduct focus group discussions and household surveys during project implementation to assess effective equal participation of members Gender disaggregated and gender specific targets will be monitored indicators: - % of targeted community members - # house holds - # women and men participating in nursery, vegetable, aquaculture, cooking stoves and other project interventions"
State the baseline condition for each monitoring indicator	No risk at the beginning of the project
Describe each safeguard measure that has been	"Awareness raising was conducted with respect to

implemented during the reporting period	gender equity "
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	The risks can still occur during subsequent project implementation
Describe remedial action for residual impacts that will be taken	There is a need to continue monitoring the potential risk an a continue awareness raising among community members .
<b>6.Core labour rights</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	"Missunderstanding between employee and employer Dismissal and termination of contracts -Workplace hazards"
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	Human resource expert Project team
List the monitoring indicator(s) for each impact identified.	Implementation of grievance management mechanism in the cause of any difficulty event at work place
State the baseline condition for each monitoring indicator	There was no problems with labour rights at workplace
Describe each safeguard measure that has been implemented during the reporting period	No labour grievance so far therefore no measures was needed
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	The risks can still occur during subsequent project implementation
Describe remedial action for residual impacts that will be taken	Continue monitoring the risk during the coming year.
<b>7.Indigenous people</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	No
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	
List the monitoring indicator(s) for each impact identified.	
State the baseline condition for each monitoring indicator	

Describe each safeguard measure that has been implemented during the reporting period	
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	
Describe remedial action for residual impacts that will be taken	
<b>8.Involuntary resettlement</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	No
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	
List the monitoring indicator(s) for each impact identified.	
State the baseline condition for each monitoring indicator	
Describe each safeguard measure that has been implemented during the reporting period	
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	
Describe remedial action for residual impacts that will be taken	
<b>9.Protection of natural habitats</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	No impacts were identified
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	-Carry out risk assessment during implementation of the project -Carry out selective clearance or removal of trees in the area designated for agricultural sites. Offsets through planting of trees in the degraded land sites is bigger than the cleared sites in each project community
List the monitoring indicator(s) for each impact identified.	-Counting the number of surviving trees and other vegetation cover -measuring size of the areas planted with trees
State the baseline condition for each monitoring indicator	Some indigenous trees adapted to the area were present and these were selectively retained during the

	cleaning
Describe each safeguard measure that has been implemented during the reporting period	Retention of important species and planting of tree in the catchment areas; Awareness campaign on conservation of natural forest species and planting of new tree seedlings in the community landscape has been emphasized.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	no impacts were identified
Describe remedial action for residual impacts that will be taken	Continue counting the number of tree species in the area
<b>10.Conservation of biological diversity</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	As the project will introduce fruit trees and forest trees planting tendency of farmers to start neglecting indigenous species may lead to loss of biodiversity. Currently the demand for planting introduced fruits and forest tree species has been shown by some community members and groups such as schools and churches.
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	<ul style="list-style-type: none"> <li>• Capacity building on importance of biodiversity to livelihoods and associated risks.</li> <li>• Interventions will emphasize on utilization of locally adapted species</li> <li>• Participatory development and implementation of conservation practices. Trees were planted in selected community sites such as schools, churches and hospitals as well as homesteads planted with fruit trees.</li> </ul>
List the monitoring indicator(s) for each impact identified.	<ul style="list-style-type: none"> <li>• Project team and M&amp;E specialist to monitor and oversee adaptation of introduced intervention and integration of native species. The indicators to include:</li> <li>• Vegetation index to determine enhanced ecosystem resilience to climate change"</li> </ul>
State the baseline condition for each monitoring indicator	There were no introduced species
Describe each safeguard measure that has been implemented during the reporting period	We have introduced non invasive fruit tree species in some sites such as lemon, passion and avocado
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	The anticipated risks persists during the project cycle
Describe remedial action for residual impacts that will be taken	Continue awareness creation and monitoring of introduced tree species
<b>11.Climate change</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require	Yes

management actions to prevent unacceptable impacts? (as per II.K/II.L)	
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	loss of genetic diversity, failure of crops and tree establishment, drying of dams due to extreme dry weather and not enough rains to fill up the dams, outbreaks of new pests and diseases on farming and livestock communities; displacement of some non climate-resilient communities.
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	Establishment of bore holes and utilization systems (solar panels and water pumps), renovations of livestock dip-tanks, awareness campaign on impacts and resilience mechanism for climate change, Introduction of botanic and cultural pest management options
List the monitoring indicator(s) for each impact identified.	Continued availability of flow ow water from boreholes; Continued monitoring of pests and diseases in crops, livestock; monitoring of productivity and diversity of vegetable gardens due to impact of dams and borehole water source"
State the baseline condition for each monitoring indicator	there was no bore holes for clean water domestic water use and for vegetable gardening; there was not functional dip-tank for livestock health
Describe each safeguard measure that has been implemented during the reporting period	Rehabilitation of dip-tanks; Establishment of boreholes; Introduction of drip and water saving irrigation system in vegetable gardening; introduction of botanical and cultural pest management options for IPM
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	The risks can still occur during subsequent project implementation
Describe remedial action for residual impacts that will be taken	Continue capacity building on the local community on pest management, conservation of water and efficient water use for resilient livelihoods, Capacity building and awareness on IPM for crops and livestock

## 12.Pollution prevention and resource efficiency

Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Possible over use of water for irrigation of nurseries and vegetables, creating competition for available water for fish and livestock, and possible spillage of fertilizers and spraying pesticides in crops may lead to pollution
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	"• Compliance to environmental laws • Integrated soil fertility and pest management • Resource use efficiency by recycling waste water from aquaculture into model vegetable gardens • Water User Association will be set up at community level so as to be able to control sources of irrigation, quantity and



	volume of water use on irrigation. • Specialized irrigation officer to train farmers on efficient irrigation of gardens " "
List the monitoring indicator(s) for each impact identified.	"• Project team to monitor and provide follow-up advise on water use for irrigation, animals and fish farming • Routine check on water sources during project implementation should be enforced by water use authorities "
State the baseline condition for each monitoring indicator	There was no pollution during the start of the project
Describe each safeguard measure that has been implemented during the reporting period	Although there is no impact yet, formation of water user committee, Capacity building on efficient water utilization , Capacity building of sustainable fertility and pest management as strategies among nursery and vegetable farming groups was done in order to minimize the risk for the impact to happen.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	The potential of the risk to happen still exist.
Describe remedial action for residual impacts that will be taken	Continue with awareness creation and monitoring on the reduce use of industrial pesticides in vegetable gardens; emphasize on use of IPM and botanical pesticides
<b>13.Public health</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Reduce human ability to work due to illness thus reducing labour force at household level, Cost in human treatment against illness
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	• Capacity building in public health related to water use in component 1 • Fish farming in the dams will feed on the larvae of possible parasites (eg. malaria, schistosomiasis) • Establishment of bore holes for increasing access of clean and safe drinking and domestic water • Establishment of bore holes for increasing access of clean and safe drinking and domestic water "
List the monitoring indicator(s) for each impact identified.	• Continued monitoring of disease occurrence and other public health indicators related to water-borne diseases and infections • Focus group discussions with locals on public health issues • Household surveys and key informant interviews on the impact of trainings on public health Sampling of successful colonization of fish in the dams and ponds established Maintenance and repair of bore holes for clean water availability"
State the baseline condition for each monitoring indicator	No Public health concern during the project
Describe each safeguard measure that has been	"Awareness creation on public health was done to the



implemented during the reporting period	target community "
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	So far no public health impact has been observed.
Describe remedial action for residual impacts that will be taken	Continued monitoring of any project activities and any risk leading to public health concerns.
<b>14. Physical and cultural heritage</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	No
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	
List the monitoring indicator(s) for each impact identified.	
State the baseline condition for each monitoring indicator	
Describe each safeguard measure that has been implemented during the reporting period	
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	
Describe remedial action for residual impacts that will be taken	
<b>15. Lands and soil conservation</b>	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	"Fertilizer and pesticide use may have impact on soil pollution Localized deforestation during establishment of vegetable gardens may lead to land degradation"
List here the safeguard measures (i.e. avoidance, management or mitigation) identified for each impact that are supposed to be (or had to be) implemented during the reporting period. Please break down the safeguard measures by activity.	"• Capacity building to promote integrated soil conservation practices • Minimize soil disturbances by machines during dam construction • Forests and fruit tree planting • Reduction of use of fertilizers and pesticides will minimize pollution and associated components of semi arid landscapes such as rivers, and ponds "
List the monitoring indicator(s) for each impact identified.	"• Regular farmers and experts meetings for continued monitoring of implementation of land conservation measures to minimize land degradation

	and soil erosion in vegetable gardens and management of fish ponds gardens and management of fish ponds, Level of land degradation and soil erosion"
State the baseline condition for each monitoring indicator	Land was occupied by local shrubs grazed by livestock and used for local fuel wood harvesting
Describe each safeguard measure that has been implemented during the reporting period	"• Capacity building to promote integrated soil conservation practices • Minimize soil disturbances by machines during dam construction • Forests and fruit tree planting in some sites"
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	Anticipated risks are expected to continue happening
Describe remedial action for residual impacts that will be taken	There is a need to continue monitoring the potential risk an a continue awareness raising among community members on land and soil conservation.

## Section 2: Monitoring for unanticipated impacts / corrective actions required

Has monitoring for unanticipated ESP risks been carried out?	Yes
Have unanticipated ESP risks been identified during the reporting period?	No
If unanticipated ESP risks have been identified, describe the safeguard measures that have been taken in response and how an ESMP has been prepared/updated	

## Section 3: Categorisation

Is the categorisation according to ESP standards still relevant?	Yes
If No, please describe the changes made at activity, output or outcome level, approved by the Board, that resulted in this change of categorization.	

## Section 4: Implementation arrangements

What arrangements have been put in place by the Implementing Entity during the reporting period to implement the required ESP safeguard measures?	During the Implementation of the activities, ESP measures have been checked for compliance in all project interventions. The Implementing Entity with meetings with EE have agreed on social inclusion on environmental safeguarding in implementation of the project activities
Have the implementation arrangements been effective during the reporting period?	Yes
What arrangements have been put in place by each Executing Entity during the reporting period to implement the required ESP safeguard measures?	The matter of ESP is discussed with the executing entity during planning of each project activity and compliance is observed accordingly.
Have the implementation arrangements at the EEs been effective during the reporting period?	Yes

## Section 5: Projects/programmes with unidentified sub-projects (USPs). This section needs to be completed only if the project/proramme includes USPs.

Have the arrangements for the process described in	
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the ESMP for ESP compliance for USPs been put in place?	
Is the required capacity for ESMP implementation present and effective with the IE and the EE(s)? Please provide details.	
Have all roles and responsibilities adequately been assigned and positions filled?	
Has the overall ESMP been updated with the findings of the USPs that have been identified in this reporting period?	

Identified USPs in the reporting period	Application of ESMP to the USP	ESP risks identified for the USP	Has an impact assessment been carried out?	Consultation held for risks and impacts identification for USP	Gender disaggregation to identify risks and impacts	Safeguard measures identified for the USP	Monitoring indicator(s) for each impact

## Section 6: Grievances

Was a grievance mechanism established capable and known to stakeholders to accept grievances and complaints related to environmental and social risks and impacts?	Yes
Were grievances received during the reporting period?	No

List all grievances received during the reporting period regarding environmental and social impacts; gender related matters; or any other matter of project/programme activities	For each grievance, provide information on the grievance redress process	Provide the status/outcome

Comments

## GP Compliance

### Section 1: Quality at entry

Was an initial gender assessment conducted during the preparation of the project/programme's first submission as a full proposal? Yes

Does the results framework include gender-responsive indicators broken down at the different levels (objective, outcome, output)? Yes

### List the gender-responsive elements that were incorporated in the project/programme results framework

Gender-responsive element	Level	Indicator	Baseline	Target	Rated result for the reporting period
Improved	Output	Number of	Existing high	80% of women	Good

households access to water supply		households with improved access to water supply	level of water scarcity	relieved from drudgery and time wasting in fetching water from long distances At least 30,000 females and 20,000 males having access to water supply	
Increased access to cooking energy sources	Objective	Number of females accessing fire wood from wood lot stock	Scarcity of energy affecting domestic supply of firewood	At least 80% of women relieved from drudgery and time wasting in fetching firewood	Poor
Improved households food and nutrition security	Output	Number of households disaggregated by gender with improved food and nutrition security	Communities affected by food and nutrition insecurity	"At least 30% of whom are women practicing profitable apiculture, fish farming, crop and livestock production and horticulture farms with diversified vegetable crops "	Satisfactory
Increased diversified sources of income generation activities in the community	Output	Number of people adopted diversified sources of income generation activities by gender	Communities affected by low levels of income and limited diversified sources of income.	At least 720 of community members trained on, nursery techniques, tree planting, management and sustainable utilization of fruit and forest tree species. at least 80% being women with knowledge on establishment, propagation and management of fruits and forest tree species: At least 30% of households (of which at least 20% are of women) within target community are,	Good

				horticulture gardening. At least 50% of people adopt diversified sources of income generation activities i.e. at least 30,000 females and 20,000 males having improved income generation.	
Increased capacity of community to establish and manage fruit and forest tree nurseries	Output	Number of people (disaggregated by gender) with increased capacity to establish and manage fruit and forest tree nurseries	Low capacity of communities to establish nurseries and plant and manage trees	At least 80% being women with knowledge on establishment, propagation and management of fruits and forest tree species.	Good
Model fish farming ponds establishment at each water harvesting dams	Objective	Number of women participating in each fish farming per village community	Local fish ponds are available including farmers but neither organized nor improved in term of management	Six groups of model aquaculture farms established with gender disaggregated membership. At least 30% of households (of which at least 20% are of women) within target community are integrated in aquaculture.	Poor
Model vegetable farms establishment at each water harvesting dams	Output	Number of women participating in vegetable gardening per village community	Local vegetable gardens are available including farmers but neither organized nor improved in term of management	Six groups of model vegetable farms with diversified vegetable crops established with gender disaggregated membership. At least 30% of households (of which at least 20% are of women) within	Good

				target community are integrated in vegetable gardening.	
Increased number of community population including women farmers involved in IPM technologies for resilience to climate change	Objective	<p>"• Number of major insect pests and vectors affecting crop and livestock production in target areas • Number of crops diseases in the target areas • Developed IPM technologies for management of pests and diseases; Number of people trained on sustainable water management and water rights • Number of people trained and practicing livelihoods interventions (tree planting, vegetable, fish, livestock production and bee keeping • Number and types of Knowledge management documents produced and diffused to target project communities and beyond "</p>	There was no IPM on management of pest and diseases in vegetable gardens.	At least 70% community population of which 50% are women farmers involved in the project adopted and implementing the IPM technologies for resilience to climate change. At least one guideline for each insect pest/vector and disease produced and distributed to target farmers	Satisfactory
Raised level of target community involvement in integrated aquaculture, horticulture, livestock and apiculture management	Objective	<p>• Number of farmers in the target communities with built capacity and practicing profitable apiculture, fish farming, crop</p>	Very few number of people in the community were involved in apiculture, aquaculture and vegetable gardening	At least 30% of households (of which at least 20% are of women) within target community are integrated in aquaculture, horticulture,	Good



		and livestock production (disaggregated by sex).		livestock and apiculture	
Increased number of women with knowledge on establishment, propagation and management of fruits and forest tree species	Output	Number of community members trained on, nursery techniques, tree planting, management and sustainable utilization of fruit and forest tree species	None	Increased number of people (i.e. least 30% being women) with knowledge on establishment, propagation and management of fruits and forest tree species	Good
Increased level of women practicing profitable apiculture, fish farming, crop and livestock production	Output	• Number of farmers in the target communities with built capacity and practicing profitable apiculture, fish farming, crop and livestock production (disaggregated by sex).	None	At least 30% of whom are women practicing profitable apiculture, fish farming, crop and livestock production	Good

## Section 2: Quality during implementation and at exit

List gender equality and women's empowerment issues encountered during implementation of the project/programme. For each gender equality and women's empowerment issue describe the progress that was made as well as the results.

Gender equality and women's empowerment issues	Rated result for the reporting period	Provide justification of the rating provided
Increased involvement of women vegetable farms establishment at each sites Increased number of women with knowledge on establishment, propagation and management of fruits and forest tree species Increased diversified sources of income generation activities in the community Increased level of women practicing profitable apiculture, fish farming, crop and livestock production	Satisfactory	Depending on site, involvement of women is progressing slowly depending on culture and customs of target women groups.

## Section 3: Implementation arrangements

What arrangements have been put in place by the Implementing Entity during the reporting period to comply with the GP	The IE has provided technical backstopping and guidance to EE to ensure the ability of women has been strengthened through involvement in Nursery establishment and management, gardening, and livestock keeping to act as agents of change.
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Have the implementation arrangements at the IE been effective during the reporting period?	Yes
What arrangements have been put in place by each Executing Entity during the reporting period to comply with the GP?	1. the project should target to achieve at least 50% women beneficiaries in each intervention 2. the project has ensured solid participation and benefit on the part of youth, particularly girls. 3. gender-transformative approach has been mainstreamed in implementation of the SWAHAT project, 4. Mechanisms to manage potential risks to the promotion of gender equality and the empowerment of women as well are also identified
Have the implementation arrangements at the EE(s) been effective during the reporting period?	Yes
Have any capacity gaps affecting GP compliance been identified during the reporting period and if so, what remediation was implemented?	No

#### Section 4: Grievances

Was a grievance mechanism established capable and known to stakeholders to accept grievances and complaints related to gender equality and women's empowerment?	Yes
Were grievances received during the reporting period?	No

List all grievances received through the grievance mechanism during the reporting period regarding gender-related matters of project/programme activities [6]	For each grievance, provide information on the grievance redress process used	Provide the status/outcome
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Comments

## Rating

Implementing Entity				
Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating
Component 1: Installation, rehabilitation and establishment of community water harvesting dams	Outcome 4	5 dams and 4 bore holes established for water harvesting in the project sites	Ontrack	Satisfactory
Component 2: Develop and implement participatory afforestation program for locally adapted fruit and forest trees utilization	Outcome 5	At least 50,000 locally adapted fruits and forest trees in 4 project sites established and at least 2 nurseries with multi purpose fruits and forest trees per village established	Ontrack	Marginally Satisfactory
Component 3: Develop	Outcome 6	"5 model vegetable gardens with	Ontrack	Satisfactory

integrated climate resilient livelihoods diversification for climate change		diversified vegetable crops established "		
Component 4: Formulate and implement interventions for integrated management of emerging pests and diseases	Outcome 3	At least 3 dip tanks rehabilitated/constructed as part of IPM intervention for livestock pests	Ontrack	Satisfactory
Component 5: Knowledge Management	Outcome 3	"(i) Six model vegetable gardens with diversified vegetable crops established (ii) Four livestock water drinking centers established with 5 drinking troughs per project site	Ontrack	Satisfactory
Component 5: Knowledge Management	Outcome 3	We targeted to deliver the following packages on knowledge management: (i) Awareness of climate change and adaptation strategies, (ii) Nursery establishment and management of forest and fruit trees seedlings (iii) Selection of Adaptation of forest and fruit trees in semiarid regions, (iv) Vegetable gardening and production	Ontrack	Satisfactory

**Please provide the Name and Contact information of the person(s) responsible for completing the Rating section**

Name	Email
Fredrick Mulinda	nieaf@nemc.or.tz / kasigazi.koku@gmail.com

**Please justify your rating. Outline the positive and negative progress made by the project since it started. Provide specific recommendations for next steps.**

The project has delivered satisfactorily on its year one objectives with few exceptions in some activities such as tree planting and timely commencement of activities in areas where acceptance was partly an issue. We recommend use of weather projection in choosing the time for implementation of weather sensitive activities such as excavation of dams and planting of trees, coupled with sufficient awareness to clear doubts among beneficiaries.

### Executing Entity / Project Coordinator

Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating
Component 1: Installation, rehabilitation and establishment of community water harvesting dams	Outcome 4	2 dams established for water harvesting in the project sites	Ontrack	Highly Satisfactory
Component 2: Develop and implement participatory afforestation program for locally adapted fruit and forest trees utilization	Outcome 5	At least 20,000 locally adapted fruits and forest trees in 2 project sites established And at least 2 nurseries with multi purpose fruits and forest trees per village established	Ontrack	Satisfactory
Component 3: Develop integrated climate resilient livelihoods diversification for	Outcome 6	"Two model vegetable gardens with diversified vegetable crops established "	Ontrack	Satisfactory

climate change				
Component 4: Formulate and implement interventions for integrated management of emerging pests and diseases	Outcome 3	None	Ontrack	Satisfactory
Component 5: Knowledge Management	Outcome 3	"(i) Six model vegetable gardens with diversified vegetable crops established (ii) Four livestock water drinking centers established with 5 drinking troughs per project site "	Ontrack	Satisfactory
Component 5: Knowledge Management	Outcome 3	We targeted to deliver the following packages on knowledge management: (i) Awareness of climate change and adaptation strategies, (ii) Nursery establishment and management of forest and fruit trees seedlings (iii) Selection of Adaptation of forest and fruit trees in semiarid regions, (iv) Vegetable gardening and production	Ontrack	Satisfactory

**Please provide the Name and Contact information of the person(s) responsible for completing the Rating section**

Name	Email	Institution
Paul Mbogo Kusolwa	kusolwap@gmail.com and kusolwa@sua.ac.tz	SUA

**Please justify your rating. Outline the positive and negative progress made by the project since it started. Provide specific recommendations for next steps.**

Positive progress: 1. Dams have been established in 4 project sites, 2. Nurseries for fruits and forest trees have been established in two project sites, 3. Vegetable gardens established and maintained through irrigation from harvested water from the dam, 4. Ten livestock drinking troughs established and 5. Capacity building and Knowledge management for awareness of climate change, nursery and vegetable production imparted among community members. Negative Progress: 1. Adverse climate change challenges (extremely Low annual rainfalls) leading to shortage of harvested water such that failed to serve the whole year round/season in one project site. 2. Grievances by some community members on village land allocated for tree planting. The few farmers have been using the village land in the past and tried to resist to return it back now that the village has decided to use it for tree planting.

## Other

Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating
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**Please provide the Name and Contact information of the person(s) responsible for completing the Rating section**

Name	Email
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**Please justify your rating. Outline the positive and negative progress made by the project since it started. Provide specific recommendations for next steps.**

## Overall Rating

## Overall rating

Satisfactory

**Please justify your rating. Outline the positive and negative progress made by the project since it started. Provide specific recommendations for next steps.**

Positive progress: 1. Dams have been established in 4 project sites, 2. Nurseries for fruits and forest trees have been established in two project sites, 3. Vegetable gardens established and maintained through irrigation from harvested water from the dam, 4. ten livestock drinking troughs established and 5. Knowledge management for awareness of climate change, nursery and vegetable production imparted among community members. Negative Progress: 1. Adverse climate change challenges (extremely low annual rainfalls) leading to shortage of harvested water such that failed to serve the whole year round/season in one project site. 2. Grievances by some community members on village land allocated for tree planting. The few farmers have been using the village land in the past and tried to resist to return it back now that the village has decided to use it for tree planting.

## Project Indicators

### List of indicators

Type of Indicator (indicators towards Objectives, Outcomes, etc...)	Indicator	Baseline	Progress Since Inception	Target for Project End
Objectives	"Percentage of people with improved livelihoods and resilient to climate change"	0	10%	At least 30% increase in crop and livestock productivity at the end of the project
Objectives	"Number of households disaggregated by gender with improved food and nutrition security"	20%	30%	At least 240 ha of land planted with adapted fruits/forest tree by the end of the project
Objectives	"Number of people adopted diversified sources of income generation activities"	5000	15000	At least 50% of people adopt diversified sources of income generation activities i.e. at least
Objectives	"Number of households having access to water supply"	5000	20000	30,000 females and 20,000 males having access to water supply
Components	Number of sites where physical water dams has been constructed to deal with climate risk	0	4	"Six (6) water harvesting dams constructed Improved governance on water

				use rights, management and distribution
Components	Number of boreholes established	3	3	At least 6 bore holes for domestic water use established in needy villages 80% of women relieved from drudgery and time wasting in fetching water from long distances
Components	Number of community members trained on, nursery techniques, tree planting, management and sustainable utilization of fruit and forest tree species	0	80	Increased number of people (i.e. least 30% being women) with knowledge on establishment, propagation and management of fruits and forest tree species. Sustainable use of fruits and forest tree products developed
Components	Number of nurseries established	0	2	At least 6 nurseries with multi purpose fruits and forest trees per village established
Components	Number of fruit and forest trees produced and planted on farmlands	0	19000	At least 100,000 locally adapted fruits and forest trees planted in the project areas.
Components	Area size of catchment planted with forest trees.	0	20ha	At least 100,000 locally adapted fruits and forest trees planted in the project areas.
Components	Number of farmers in the target communities with built capacity and practicing profitable apiculture, fish farming, crop and livestock production (disaggregated by sex).	20	290	At least 30% of whom are women practicing profitable apiculture, fish farming, crop and livestock production.
Components	Number of established model fish ponds and horticulture fields downstream of the	0	4	Twelve model aquaculture farms each with at least 4 ponds established in the project districts



	water harvesting dams			
Components	"Number of livestock water points "	0	20	4 livestock water drinking centers established per project district
Components	Number and size of apiary units	0	0	12 model apiary units established in the entire project area
Components	Number of livestock diseases controled in the target areas	0	2	At least one guideline for each insect pest/vector and disease produced and distributed to target farmers
Components	Developed IPM technologies for management of pests and diseases	1	2	At least 70% community population of which 50% are women farmers involved in the project adopted and implementing the IPM technologies for resilience to climate change
Components	Number of people trained on sustainable water management and water rights	0	400	At least One compresnsive training manual/guideline/fliers generated and distributed to target community for each strategic interventions (fruits and trees, vegetables, fish, bee keeping, water use and safety, and climate change adaptation )
Components	Number of people trained and practicing livelihoods interventions (tree planting, vegetable, fish, livestock production and bee keeping	0	370	At least One compresnsive training manual/guideline/fliers generated and distributed to target community for each strategic interventions (fruits and trees, vegetables, fish, bee

				keeping, water use and safety, and climate change adaptation )
Components	Types of Knowledge management documents produced and diffused to target project communities and beyond.	0	4	Number of people trained and practicing livelihoods interventions (tree planting, vegetable, fish, livestock production and bee keeping

Comments

## Lessons Learned

Implementation and Adaptive Management		
Describe any changes undertaken to improve results on the ground or any changes made to project outputs (i.e. changes to project design)	Opportunities	Shifting of some activities between quarters e.g. excavating 2 instead of 1 dam and implementation of some knowledge management activities in quarter 1 which were planned in next years/quarters. This year 2 we have planned to forward some of the activities that require timing of rainfall season and implementing the most concrete activities that demonstrate immediate need by the community such as boreholes, vegetable gardens, nurseries , dip-tanks in the IPM component and knowledge management.
Have the environmental and social safeguard measures that were taken been effective in avoiding unwanted negative impacts?	Opportunities	Yes, it is very effective and some of measures were taken as opportunities for further improvement in the cause of project improvement
How have gender considerations been taken into consideration during the reporting period? What have been the lessons learned as a consequence of inclusion of such considerations on project performance or impacts? List lessons learned specific to gender, detailing measures and project/programme-specific	Opportunities	Women and youth have proved to be very effective in engaging and delivering results in interventions. They only needed to be recognized, included, trained and given roles. More than 80% of the established tree nurseries

indicators highlighting the role of women as key actors in climate change adaptation.		workers are women. In this year 2 consideration of gender in vegetable production in the two sites has identified 290 individuals whose composition demonstrated equality with involvement of men, women and youth in the value chain of vegetable gardens in our project sites.
Were there any delays in implementation? If so, include any causes of delays. What measures have been taken to reduce delays?	Challenges	Delay of start of the project implementation with respect to onset of wet season affected the excavation of the dams (dams were dug in a rush to at least complete them before the onset of rains to avoid the stuck of equipment on the sites. The project was scheduled to start early June 2020, however it was launched in October 2021 due to negotiation of modalities of fund disbursement between AF and the Government of URT. Additionally the second year of project implementation was delayed again due to late transfer of funds from the ministry to NEMC. Eventually Funds were transferred to SUA in June 2023 for execution of term 1 and 2 activities and thereby being able to start execution of activities in July instead of January/February 2023. Therefore activities are still lagging behind as per schedule.
What implementation issues/lessons, either positive or negative, affected progress?	Challenges	Low adoption by a few people who did not participate in the consultative and local inception meetings, Change of local government structure from village community lead to changes in management in some village communities, Climate variability low rainfall and drought affected the establishment of newly planted tree seedling on catchment site. Delay of disbursement of funds has affected the implementation of activities as per schedule.

**Has the project already reached mid term or project completion?(yes/no).**

Yes

<b>Climate Resilience Measures</b>	
What have been the lessons learned, both positive and negative, in implementing climate adaptation measures that would be relevant to the design and implementation of future projects/programmes for enhanced resilience to climate change?	Timing financing of some actions, Planning of actions to match the seasons become difficult due to climate variability. Issues of reforestation and tree planting is a progressive investment requiring time and is subject to impacts of climate change, Behavioural change of the community requires integration into project planning and implementation, Intensive awareness creation and capacity building in gender inclusion should be done early on to harmonize performance among different communities. Gender inclusion and responsive elements should be carefully structured such that all social groups receives deserved consideration. Climate change is real and the demand for adaptation interventions is becoming increasingly high therefore the demand for continued and increased adaptation fund (AF) support.
What is the potential for the climate resilience measures undertaken by the project/programme to be replicated and scaled up both within and outside the project area?	Very High, There are emerging interventions at national level that are trying to copy the model of adaptation carried out in this project to other areas of Tanzania
<b>Readiness Interventions (Applicable only to NIEs that received one or more readiness grants)</b>	
What have been the lessons learned, both positive and negative, in accessing and implementing climate finance readiness support that would be relevant to the preparation, design and implementation of future concrete adaptation projects/programmes?	N/A
How have the outputs (such as manuals, guidelines, procedures or the experience from providing peer support, etc) from employing readiness grants been used to inform institutional capacity needs, gender issues, and environmental and social aspects in developing and implementing concrete projects/programmes for enhanced resilience to climate change?	N/A
<b>Concrete Adaptation Interventions</b>	
What have been the lessons learned, both positive and negative, in implementing concrete adaptation interventions that would be relevant to the design and implementation of future projects/programmes implementing concrete adaptation interventions?	Positive lessons: Participatory inclusion of the community leads to early adoption of concrete adaptation interventions; concrete adaptation strategies should be tailored and allow flexibility in choosing types of intervention per community; Concrete adaptations increases resilience of the community to climate change reducing likelihoods of migration and land degradation. Concrete adaptation measures have increased livelihoods options by creation of numerous alternative employment opportunities for example the increased

	<p>number of people employed in the genetable value chain was highly significant. The inclusionof knowledge managent as part of concrete adaptation has a high impact in improving social, economic environmental and human health for example reduced use of pesticides in crop and livestock reduces pollution and contanination of the food value chan and therefore safety and health commuuty</p> <p>Negative Lessons: We were too ambitious to commit ourselves in implementing similar concrete actions in a large area within the timefame and resources in the project; lack scientifc study research components is not mainstreamed in the knowledge managenet during the project implementation of concrete adaptation projects as research in development component. where data collection and analysis could be mainstreamed in the implementation of project activities.</p>
What is the potential for the concrete adaptation interventions undertaken by the project/programme to be replicated and scaled up both within and outside the project area?	Very High, There are emerging intervantions at netional level that are trying to copy the model of adaptation carried out in this project to other areas of Tanzania
<b>Knowledge Management</b>	
How has existing information/data/knowledge been used to inform project development and implementation? What kinds of information/data/knowledge were used?	Pre-existing knowledge on local old charcoal dams initiated the idea of this concrete project, pulling out necessary information and experience on horticultural crops, tree nurseries, adaptation and resilience of livestock keepers, emerging pests and diseases management, uses of pre-existing dip-tanks for livestock,In addition, bore holes for sustaainable domestic water uses and irrigation emerged to be important adaptation strategy. Experience and linkaged to local goverments and knowledge on local languages have strengthened social integration between project team and target communities.
Has the existing information/data/knowledge been made available to relevant stakeholder? If so, what chanelns of dissemination have been used?	Yes. Through seminars, workshops, brochures, and handbooks distributed
Please list any knowledge products generated and include hyperlinks whenever possssible (e.g. project videos, project stories, studies and technical reports, case studies, tranining manuals, handbooks, strategies and plans developed, etc.)	"Handbooks: 1. Nursery managenet and integration of fruit/forest tree planting for adaptation to climate change; 2. Vegetable crop production in a Climate change vulnerable communities of semi-arid areas; 3. Important pesticidal plants in crop and livestock production Brochures: 1. Awareness and Adaptation to Climate Change in semi arid community 2. Why use pesticidal plants, 3. Beneficial insects in crop and livestock production, 4. Propagation of fruits and forest tree seedlings, Fliers: 1. Media preparation for fruit and forest trees nursery seedlings, 2. Harvesting and post-harvest handling of tomato, 3. Vegetable nursery management: Procedures and principles "
If learning objectives have been established, have they been met? Please describe.	Partly, because this is an on-going process.
Describe any difficulties there have been in accessing	Most of materials need to be produced in swahili

or retrieving existing information (data or knowledge) that is relevant to the project. Please provide suggestions for improving access to the relevant data.	language because majority of rural communities in the project areas do not understand english. And majority of community members do not use smart phones and therfoe difficult to access digital materials
Has the identification of learning objectives contributed to the outcomes of the project? In what ways have they contributed?	Yes, they have contributed in clear understanding of the interventions, participation, and implementation, adoption, ensuring sustainability paving the way for upscaling and insights for future design of similar climate change adaptation projects/programs in the semi-arid areas.
<b>Innovation</b>	
Describe any innovative practices or technologies that figured prominently in this project.	"• Water harvesting dams: Diversified income generation activities for adaptation to climate change such as tree nurseries, vegetable garnening, acquaculture, establishing drinking water troughs for livestock • Bore holes for irrigation and domestic water use has triggered resilience livelihoods opportunities among community members. • Introduction of locally adapted species for fuel woods performed very well in nursery and fields establishment • The use of solar power instead of gasoline generators was beneficial as it avoid carbon dioxide emission. Project beneficiaries does not need to incur costs of fuel for running generators to pump water for vegetables, livestock drinking toughs. The solar powered water pumps contributes to sustainability of the projects as is almost autoregulated system. • The use of botanical, biological and cultural pest and disease management as part of IPM in crops and livestock production was necessary as it minimized costs, environmentally friendly, reduced pollution, and enhance health and safety for consumers. "
<b>Complementarity/ Coherence with other climate finance sources</b>	
Has the project been scaled-up from any other climate finance? Or has the project build upon any other climate finance initiative?	No
If you answered yes, kindly specify the name of the Fund/Organization.	

## Results Tracker

**Goal:** Assist developing-country Parties to the Kyoto Protocol and the Paris Agreement that are particularly vulnerable to the adverse effects of climate change in meeting the costs of concrete adaptation projects and programmes in order to implement climate-resilient measures.

**Impact:** Increased resiliency at the community, national, and regional levels to climate variability and change.

**Is this the mid-term or terminal project performance report?** Before Midterm



## Impact: Increased resiliency at the community, national, and regional levels to climate variability and change

### Core Indicator: No. of beneficiaries

		Total	% of female beneficiaries	% of Youth beneficiaries
Baseline information	Direct beneficiaries supported by the project			
Baseline information	Indirect beneficiaries supported by the project			
Baseline information	Total (direct + indirect beneficiaries)	0	0	0
Target performance at completion	Direct beneficiaries supported by the project			
Target performance at completion	Indirect beneficiaries supported by the project			
Target performance at completion	Total (direct + indirect beneficiaries)	0	0	0
Performance at mid-term	Direct beneficiaries supported by the project	35301	54.62	47.47
Performance at mid-term	Indirect beneficiaries supported by the project	13429	45.38	48
Performance at mid-term	Total (direct + indirect beneficiaries)	48730	50	47.735
Performance at completion	Direct beneficiaries supported by the project			
Performance at completion	Indirect beneficiaries supported by the project			
Performance at completion	Total (direct + indirect beneficiaries)	0	0	0

## Outcome 1: Reduced exposure to climate-related hazards and threats

### Indicator 1: Relevant threat and hazard information generated and disseminated to stakeholders on a timely basis

	Number of targeted stakeholders - Total	Number of targeted stakeholders - % of female targeted	Hazards information generated and disseminated	Overall effectiveness
Baseline information				

Target performance at completion				
Performance at mid-term	53603	60	Drought	3: Moderately effective
Performance at completion				

### Output 1.1 Risk and vulnerability assessments conducted and updated

Indicator 1.1: No. of projects/programmes that conduct and update risk and vulnerability assessments

	No. of projects/programmes that conduct and update risk and vulnerability assessments	Sector	Scale	Status
Baseline information				
Target performance at completion				
Performance at mid-term				
Performance at completion				

### Output 1.2 Targeted population groups covered by adequate risk reduction systems

Core Indicator 1.2: No. of Early Warning Systems

	No. of adopted Early Warning Systems	Category targeted	Hazard	Geographical coverage	Number of municipalities
Baseline information					
Target performance at completion					
Performance at mid-term	0	4: Response capability	Drought	Local	4
Performance at completion					

## Outcome 2: Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses

Indicator 2: Capacity of staff to respond to, and mitigate impacts of, climate-related events from targeted institutions increased

	Number of staff targeted - Total	Number of staff targeted - % of female targeted	Sector	Capacity level
Baseline information				
Target performance				

at completion				
Performance at mid-term	30	50	Water management	3: Medium capacity
Performance at completion				

## **Output 2.1 Strengthened capacity of national and sub-national centres and networks to respond rapidly to extreme weather events**

Indicator 2.1.1: No. of staff trained to respond to, and mitigate impacts of, climate-related events

	Total staff trained	% of female staff trained	Type
Baseline information			
Target performance at completion			
Performance at mid-term	40		Public
Performance at completion			

Indicator 2.1.2: No. of targeted institutions with increased capacity to minimize exposure to climate variability risks

	Type	Scale	Sector	Capacity Level
Baseline information				
Target performance at completion				
Performance at mid-term	Public	Regional	Water management	2: Low capacity
Performance at completion				

## **Output 2.2. Increased readiness and capacity of national and sub-national entities to directly access and program adaptation finance**

Indicator 2.2.1: No. of targeted institutions benefitting from the direct access and enhanced direct access modality

	Number of beneficiaries	Scale	Sector	Capacity Level
Baseline information				
Target performance at completion				
Performance at mid-term				
Performance at completion				

## **Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes**

**Indicator 3.1: Increase in application of appropriate adaptation responses**

	Percentage of targeted population applying adaptation measures	Sector
Baseline information		
Target performance at completion		
Performance at mid-term	5	Water management
Performance at completion		

**Output 3.1: Targeted population groups participating in adaptation and risk reduction awareness activities**

Indicator 3.1.1: Percentage of targeted population awareness of predicted adverse impacts of climate change, and of appropriate responses

	No. of targeted beneficiaries	% of female participants targeted	Level of awareness
Baseline information			
Target performance at completion			
Performance at mid-term	48730	55	2: Partially not aware
Performance at completion			

**Output 3.2: Stenghtened capacity of national and subnational stakeholders and entities to capture and disseminate knowledge and learning**

Indicator 3.2.1: No. of technical committees/associations formed to ensure transfer of knowledge

	No. of technical committees/associations	% of women represented in committes/associations	Level of awareness
Baseline information			
Target performance at completion			
Performance at mid-term			
Performance at completion			

Indicator 3.2.2: No. of tools and guidelines developed (thematic, sectoral, institutional) and shared with relevant stakeholders

	No. of tools and guidelines	Type	Scale
Baseline information			
Target performance at completion			
Performance at mid-term		Technical guidelines	Local
Performance at completion			

## Outcome 4: Increased adaptive capacity within relevant development sector services and infrastructure assets

### Indicator 4.1: Increased responsiveness of development sector services to evolving needs from changing and variable climate

	Project/programme sector	Geographical scale	Response level
Baseline information			
Target performance at completion			
Performance at mid-term	Water management	Local	2: Partially responsive (Lacks most elements)
Performance at completion			

### Core Indicator 4.2: Assets produced, developed, improved or strengthened

	Sector	Targeted asset	Changes in asset (quantitative or qualitative)
Baseline information			
Target performance at completion			
Performance at mid-term	Water management	2: Physical asset (produced/improved/strengthened)	1: Not improved
Performance at mid-term	Agriculture	2: Physical asset (produced/improved/strengthened)	1: Not improved
Performance at mid-term	Food security	2: Physical asset (produced/improved/strengthened)	1: Not improved
Performance at mid-term	Disaster risk reduction	2: Physical asset (produced/improved/strengthened)	1: Not improved
Performance at completion			

### Indicator 4.1.1: Vulnerable development sector services and infrastructure assets strengthened in response to climate change impacts, including variability

Indicator 4.1.1: No. and type of development sector services to respond to new conditions resulting from climate variability and change

	Number of services	Type	Sector
Baseline information			
Target performance at completion			
Performance at mid-term	9		Water management
Performance at mid-term	7		Agriculture
Performance at mid-term	7		Food security
Performance at mid-term	15		Disaster risk reduction
Performance at completion			

## Outcome 5: Increased ecosystem resilience in response to climate change and variability-induced stress

### Indicator 5: Ecosystem services and natural resource assets maintained or improved under climate change and variability-induced stress

	Natural resource improvement level	Sector	Type
Baseline information			
Target performance at completion			
Performance at mid-term	1: Ineffective	Water management	Land
Performance at completion			

### Output 5: Vulnerable ecosystem services and natural resource assets strengthened in response to climate change impacts, including variability

Core Indicator 5.1: Natural Assets protected or rehabilitated

	Natural asset or Ecosystem (type)	Total number of natural assets or ecosystems protected/rehabilitated	Unit	Effectiveness of protection/rehabilitation
Baseline information				
Target performance at completion				
Performance at mid-term	Catchment area/Watershed/Aquifer	2	ha protected	1: Ineffective
Performance at mid-term	Cultivated land/Agricultural land	2	ha protected	2: Partially effective
Performance at completion				

## Outcome 6: Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas

### Indicator 6.1: Increase in households and communities having more secure access to livelihood assets

	No. of targeted households	% of female headed households	Improvement level
Baseline information			
Target performance at completion			
Performance at mid-term	3600	12	3: Moderate improvement
Performance at completion			

### Indicator 6.2: Increase in targeted population's sustained climate-resilient alternative livelihoods

	No. of targeted households	% of female headed households	% increase in income level vis-à-vis baseline	Alternate Source

Baseline information				
Target performance at completion				
Performance at mid-term	3600	12	From 5% to 10%	Agriculture
Performance at completion				

#### **Output 6 Targeted individual and community livelihood strategies strengthened in relation to climate change impacts, including variability**

Indicator 6.1.1: No. and type of adaptation assets created or strengthened in support of individual or community livelihood strategies

	Number of Assets	Type of Assets	Sector	Adaptation strategy
Baseline information				
Target performance at completion				
Performance at mid-term	44	Physical capital	Water management	Community-based adaptation
Performance at completion				

#### **Core Indicator 6.1.2: Increased income, or avoided decrease in income**

	Number of households (total number in the project area)	Income source	Income level (USD)
Baseline information			
Target performance at completion			
Performance at mid-term	11700	Agriculture	100
Performance at completion			

### **Outcome 7: Improved policies and regulations that promote and enforce resilience measures**

#### **Indicator 7: Climate change priorities are integrated into national development strategy**

	Integration level
Baseline information	
Target performance at completion	
Performance at mid-term	5: All (Fully integrated)
Performance at completion	

#### **Output 7: Improved integration of climate-resilience strategies into country development plans**

Indicator 7.1: No. of policies introduced or adjusted to address climate change risks

	No. of Policies introduced or	Sector	Scale	Type
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	adjusted			
Baseline information				
Target performance at completion				
Performance at mid-term			National	Environmental policy
Performance at completion				

**Indicator 7.2: No. of targeted development strategies with incorporated climate change priorities enforced**

	No. of Development strategies	Regulation	Effectiveness
Baseline information			
Target performance at completion			
Performance at mid-term			
Performance at completion			

**Outcome 8: Support the development and diffusion of innovative adaptation practices, tools and technologies**

**Indicator 8: Innovative adaptation practices are rolled out, scaled up, encouraged and/or accelerated at regional, national and/or subnational level**

	Sector of innovative practice	Geographic Scale	Type
Baseline information			
Target performance at completion			
Performance at mid-term	Water management	Local	Innovation replicated
Performance at completion			

**Output 8: Viable innovations are rolled out, scaled up, encourages and/or accelerated**

Indicator 8.1: No. of innovative adaptation practices, tools and technologies accelerated, scaled-up and/or replicated

	No. of innovative practices/ tools technologies	Sector	Status	Effectiveness
Baseline information				
Target performance at completion				
Performance at mid-term	10	Water management	Undertaking innovative practices	3: Moderately effective
Performance at completion				

**Indicator 8.2: No. of key findings on effective, efficient adaptation practices, products and**

technologies generated			
	No. of key findings generated	Type	Effectiveness
Baseline information			
Target performance at completion			
Performance at mid-term	9	Innovative practice	2: Partially effective
Performance at completion			