



ADAPTATION FUND

# Project Performance Report

## Overview

Period of Report (Dates)	10/14/2024 - 10/13/2025
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)	Bahi, Manyoni, and Nzega districts - Tanzania
Name of Implementing Entity Focal Point	National Environmental Management Council (NEMC)

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)	5/15/2024
Original Completion Date	10/13/2025
Revised Completion Date after approval of extension request (if applicable)	10/13/2027

**Were there any approval condition for this Project?**

No

List each approval condition, if any, and report on the status of meeting them	
Category of condition	
Condition or Requirement	
Current Status	
Planned actions, including a detailed time schedule	

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

1. Inception report 2. Mid Term Report 3. Extension request

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

<https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://www.adaptation->

<b>Project Contacts</b>			
<b>National/Regional Project Manager/Coordinator</b>	<b>Name</b>	<b>Email</b>	<b>Date</b>
Implementing Entity	Frederick Mulinda	fredrick.mulinda@nemc.or.tz	10/9/2025
Executing Agency	Paul Kusolwa	kusolwa@sua.ac.tz	10/9/2025
Government(s) DA	Amb. Baraka Haran Luvanda	baraka.luvanda@vpo.go.tz	10/11/2025

## Financial Data

<b>Disbursement of AF grant funds</b>	
Cumulative total disbursement from Trustee to IE as of date (\$)	\$1,280,000.00
Estimated cumulative total disbursement from IE to EEs as of date (\$)	\$1,187,797.00
Project disbursement rate (%)	85.84
Project execution rate (%)	100.00
Add any comments on AF Grant Funds	
Investment Income (\$)	\$0.00
Cumulative Investment Income since inception (\$)	\$0.00

<b>Expenditure Data</b>	
<b>Output</b>	<b>Amount (\$)</b>
Output 1.2 Planting of forest trees	\$12,400.00
Output 2.2 Management, monitoring and evaluation of performance of planted trees and fuel use efficiency	\$14,800.00
Output 3.2 enhanced production of vegetable crops gardens and irrigation	\$20,740.00
Output 4.3 Establishing plant health clinics and surveillance systems in field crop production	\$10,500.00
Output 5.1 Increased knowledge on water harvesting, safety and sustainable water management	\$7,200.00
Output 5.2 Increased Knowledge on Nursery techniques and tree planting	\$20,700.00
Output 5.3 Increased capacity and skills on management of income generation interventions in the community	\$21,800.00
Output 5.4 Increased capacity of semi arid rural communities in management of emerging pests and diseases	\$15,000.00
Terminal evaluation and project completion report	\$20,000.00
IE fee (\$)	\$13,053.00
Execution cost (\$)	\$26,020.00

<b>Planned Expenditure Schedule</b>		
<b>Output</b>	<b>Projected Cost (\$)</b>	<b>Estimated Completion Date</b>
N/A	\$0.00	11/13/2026

IE fee (\$)	\$0.00
Execution cost (\$)	\$0.00

**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
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	<ul style="list-style-type: none"> <li>Capacity building on governance of water rights and forest resources</li> <li>Participatory governance and management of water forest resources user rights</li> <li>Implement water resources management irrigation laws at target village</li> </ul>
Political will at regional and district and village local government to accept and support project objectives	Low	<ul style="list-style-type: none"> <li>Participatory engagement of stakeholder from the beginning of the project</li> <li>Communication and transparency with politicians from local to national level</li> </ul>
Limited capacity and willingness to understand and implement project interventions	Moderate	<ul style="list-style-type: none"> <li>Capacity building of target village communities</li> <li>District level capacity building</li> <li>Participatory prioritization and decision making</li> </ul>
Change price of materials for project implementation	Moderate	<ul style="list-style-type: none"> <li>Budget reviews and reallocation of resource to fit costs of implementation</li> </ul>
Delays in disbursement of funds	Moderate	Timely reporting of PPRs, coordination of PPR completions between AF and IE and also timely application of funds and delivery to the EE

### 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
Climate change induced drought	Moderate	failure of some planted trees occurred due to prolonged drought period at some sites. Mitigation measures include supplementary irrigation

		using water from boreholes and dams with support from casual village labour to supply water to the sites
The cost of regularly refilling dip tanks with acaricides has led to resistance among livestock keepers to incurring these expenses	Low	Capacity building through the promotion of dip tanks use to improve livestock's health help minimise the effects of tick-borne diseases. Extension service support awareness raising on the impacts of ticks on livestock, encouraging the spirit of regular dip washing of animals. District councils provide subsidies for acaricides to all dip tanks in the district, similar to support provided during livestock vaccination campaigns

## 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?

All project components were screened in order to determine their potential to cause environmental or social harm in the target community and project sites. This process was aimed at identification of potential environmental and social impacts and risks in line with the 15 Adaptation funds environmental and social principles. In addition detailed Environmental Impact Assessment were conducted by the experts and report submitted to NIE (NEMC)

## 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)	Farmers vs livestock keepers conflicts on possible invasion by livestock to model farms or Conflict over land ownership Violations 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.	1. Capacity building on governance of Land ownership, water user rights and forest resources ( Component 1: Activities 1.1.1 and 1.1.2) 2. Participatory governance and management plans for water users, forest and related resources at target village 3. Regular community public meetings and consultations with farmers, livestock keepers and stakeholders 4. Strengthening of grievance mechanisms for conflicts resolution 5. Reporting of any incidents to relevant authorities for legal actions if required.

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 Regular meeting with community to enhance awareness and followup of implementation of project activities in making the community work together 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
State the baseline condition for each monitoring indicator	there was no functional facilities before project intervention therefore 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 Each village have established watch guard security measure to monitor the facility so that it does not happen again. • Capacity building of target village communities • District level capacity building • Participatory prioritization and decision making
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 Currently no residual impact
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 Currently no residual impact after establishing measures
<b>2. Access and equity</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 access to the use of water from the dam for livestock and farming. Unequal allocation and sharing of project benefits among different groups (women, elderly, youth, and disabled) in the community Income generating activities could generate new employment for a limited subset of the

	target group
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 members, vulnerable households, men and women, youth and elders in the project
List the monitoring indicator(s) for each impact identified.	Additional focus groups discussions and household surveys are organized during project implementation to assess effective equal participation and benefits of members encouraging participatory resource management Regular monitoring of mechanisms to ensure equal participation of and benefits for group members, vulnerable households, men and women, youth and elders in the project
State the baseline condition for each monitoring indicator	very low community access and equity to resource ownership
Describe each safeguard measure that has been implemented during the reporting period	• Ensuring high levels of transparency during project implementation • Capacity building of representatives of the disabled, the elderly, women, youth, community leaders and planners in consultative process • Ensuring Participatory resource management • Assist communities 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)	very low remaining unequal access to benefits and resources from the project
Describe remedial action for residual impacts that will be taken	Continued strategy to create awareness to equity and equal access to benefits from intervention
<b>3.Marginalized and vulnerable Groups</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)	Lack of representation and participation and decision making of some community members in the project benefits Discrimination due to lack of power and authority of some groups in the commune leading to denial of opportunities from project outcomes 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	• Sensitization of the community on the project components and their rights to participate • Institutionalization of the project activities for continued execution

safeguard measures by activity.	
List the monitoring indicator(s) for each impact identified.	Continued awareness workshops household seminars organized during project implementation to create awareness on effective equal participation and benefits of each members to project interventions
State the baseline condition for each monitoring indicator	Low
Describe each safeguard measure that has been implemented during the reporting period	Sensitization of the community on the project components and their rights to participate • Institutionalization of the project activities for continued execution
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	Reduced Lack of representation and participation and decision making of some community members in the project benefits
Describe remedial action for residual impacts that will be taken	Continued strategy to create awareness to equity and equal access to benefits from intervention
<b>4.Human 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)	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.	• Sensitization of the community on the project components and their rights to participate • Institutionalization of the project activities for continued execution • The project will adhere to national and international human rights standards, policies, rules and regulation
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 existed
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 • Potential gender inequality in project participation • Some cases women are marginalized in decision making at household and community levels due to their poor power position
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: The project is committed to ensure 50% participation of women in most project components. In this respect, Project activities in all components have been gender sensitive and to empower women. to ensure: - All project staff are trained on gender-sensitive approaches. - Incorporate gender sensitive approaches into trainings, workshops and awareness raising activities. - Mechanisms for selection of beneficiaries are gender-sensitive in order to ensure equal participation of men and women taking into consideration different needs. - A socioeconomic and gender specialist from local government is some times is involved 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	Low risk
Describe each safeguard measure that has been implemented during the reporting period	- Awareness raising was conducted with respect to gender equity - Regular workshops conducted to increase awareness at household l levels during project implementation to assess effective equal participation among members
Describe the residual impact for each impact	Low risks can still occur during subsequent project

identified - if any - using the monitoring indicator(s)	implementation
Describe remedial action for residual impacts that will be taken	- There is a need to continue monitoring the potential risk and a continued awareness raising among community members . - Continued awareness workshops
<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)	"Misunderstanding 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 to intervene Regular meetings for capacity building Motivation strategies by incentivise them
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?	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)	N/A
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.	N/A
List the monitoring indicator(s) for each impact identified.	N/A
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been	N/A

implemented during the reporting period	
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	N/A
Describe remedial action for residual impacts that will be taken	N/A
<b>8.Involuntary resettlement</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)	No
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	N/A
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.	N/A
List the monitoring indicator(s) for each impact identified.	N/A
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been implemented during the reporting period	N/A
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	N/A
Describe remedial action for residual impacts that will be taken	N/A
<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 progress eachyear
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 - continued monitoring and management of surviving trees through irrigation during off rain season
<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. Introduction of new tree species may dominate the locally existing species leading to possible loss of biodiversity • As the project introduced exotic forest and fruit trees and forest trees planting tendency of farmers to start neglecting indigenous species may lead to loss of biodiversity
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.	Trees were planted in selected community sites such as schools, churches and hospitals as well as homesteads planted with fruit trees. Capacity building on importance of biodiversity to livelihoods and associated risks. Interventions to emphasize on utilization of locally adapted species Participatory development and implementation of conservation practices
List the monitoring indicator(s) for each impact identified.	• Project team and M&E specialist to monitor and oversee adaptation of introduced intervention and integration of native species in the landscape . The indicators to include: • Vegetation index to determine enhanced ecosystem resilience to climate change
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	
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>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 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)	reduced survival rates of tree planted 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 irrigation of trees during dry spell enhanced mulching and water conservation techniques for planted tress
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" Monitoring of survival plants in the beginning of the rain season after drought period
State the baseline condition for each monitoring indicator	there was no boreholes for clean water domestic water use and for vegetable gardening; there was not functional dip-tank for livestock health There was no planted fruits and forest trees
Describe each safeguard measure that has been implemented during the reporting period	replanting and irrigation during dry season and planting of adapted drought tolerant tress speciesRehabilitation 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 - Drought is still existing requiring alternative water supply mechanism
Describe remedial action for residual impacts that will be taken	continued irrigation and replanting as needed
<b>12.Pollution prevention and resource efficiency</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	Possible over use of inorganic fertilisers, pesticides

measures are required (as per II.K/II.L)	and acaricides in crop and livestock management may possible lead to spillage and hence water and soil 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.	<ul style="list-style-type: none"> <li>• Compliance to environmental laws</li> <li>• Integrated soil fertility and pest management</li> <li>• Resource use efficiency by recycling waste water from aquaculture into model vegetable gardens</li> <li>• 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.</li> <li>• Specialized irrigation officer to train farmers on efficient irrigation of gardens "</li> </ul>
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 " routine check for status of agricultural and livestock input wastes contributing to pollution in the area.
State the baseline condition for each monitoring indicator	There was very low 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 on management of inorganic fertilisers, acaricides and pesticides was done in order to minimise 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 remains very low after mitigation.
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.	<ul style="list-style-type: none"> <li>• Capacity building in public health related to water use in component 1</li> <li>• Fish farming in the dams will feed on the larvae of possible parasites (eg. malaria, schistosomiasis)</li> <li>• Establishment of bore holes for increasing access of clean and safe drinking and domestic water</li> <li>• Establishment of bore holes for increasing access of clean and safe drinking and</li> </ul>

	domestic water
List the monitoring indicator(s) for each impact identified.	<ul style="list-style-type: none"> <li>• Continued monitoring of disease occurrence and other public health indicators related to water-borne diseases and infections</li> <li>• Focus group discussions with locals on public health issues</li> <li>• Household surveys and key informant interviews on the impact of trainings on public health</li> <li>Sampling of successful colonization of fish in the dams and ponds</li> <li>established Maintenance and repair of bore holes for clean water availability"</li> </ul>
State the baseline condition for each monitoring indicator	No Public health concern during the project
Describe each safeguard measure that has been implemented during the reporting period	Awareness creation on public health was done to the 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	Soil pollution, Soil erosion, and localized

measures are required (as per II.K/II.L)	deforestation as a result of establishment of model garden plots Fertilizer and pesticide use may have impact on soil pollution Localized deforestation during establishment of vegetable gardens may lead to land degradation may occur locally in each project site
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 to promote integrated soil conservation practices</li> <li>• Minimize soil disturbances by machines during dam construction</li> <li>• Forests and fruit tree planting introduced to the community</li> <li>• Reduction of use of fertilizers and pesticides will minimize pollution and associated components of semi arid landscapes such as rivers, and ponds introduce some elements of agroecology farming principles</li> </ul>
List the monitoring indicator(s) for each impact identified.	<ul style="list-style-type: none"> <li>• Regular farmers and experts meetings for continued monitoring of implementation of land conservation measures to minimize land degradation and soil erosion in vegetable gardens. advocate on minimum use of industrial bioinputs</li> </ul>
State the baseline condition for each monitoring indicator	Low level risk impact
Describe each safeguard measure that has been implemented during the reporting period	Continued to conduct Capacity building to promote integrated soil conservation practices • Minimize soil disturbances by machines during dam construction • Forests and fruit tree planting introduced to the community • Reduction of use of fertilizers and pesticides will minimize pollution and associated components of semi arid landscapes such as rivers, and ponds introduce some elements of agroecology farming principle
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	low impact of the risk to land and soils as farmers are adopting the reduced use of industrial bio-inputs
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?	Yes
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	<ul style="list-style-type: none"> <li>• Capacity building at district, village and community levels on existing laws and bylaws relevant to the project</li> <li>• Participatory selection and establishment of user rights village committee</li> <li>• Implementation of proper grievance management mechanism</li> </ul>

## 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.	
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**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. EIA assessment as required by the AF
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 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
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**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
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## Comments

The grievance redress mechanism was successful in aligning the community to better participate and cooperate to implement project plans. involvement of a participatory and co-creation of all implementation strategies with the community, including selection and allocation of community vegetable gardens that support gender equity engagement as income generation through production of vegetable crops, beekeeping, fish farming and tree nursery management for environment conservation of the dam catchment, farms lands, public institutions and household areas tree planting.

## 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
inclusion of sex-disaggregated indicators and targets	Objective	to monitor participation of women in awareness-raising activities, capacity building, and any management committees	5%	50%	
targeting of gender-differentiated vulnerabilities into project interventions	Objective	groups most vulnerable to climate variability and change receive support;	5%	50%	
designing women capacity building and skills enhancement programmes	Objective	adopt interventions specifically targeting the youth as a means to actively engage youth in conservation and income generating activities	10%	60%	
collaborating with relevant	Objective	District departments and	10%	60%	

stakeholders such as the Ministry of Gender, Women and Children,		village authorities to ensure that gender considerations are appropriately mainstreamed into project activities			
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## 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
inclusion of sex-disaggregated indicators and targets		
gender-differentiated vulnerabilities into project interventions		
designing women capacity building and skills enhancement programmes		
collaborating with relevant stakeholders such as the Ministry of Gender, Women and Children to accelerate women involvement in various project interventions		

## Section 3: Implementation arrangements

What arrangements have been put in place by the Implementing Entity during the reporting period to comply with the GP	
Have the implementation arrangements at the IE been effective during the reporting period?	
What arrangements have been put in place by each Executing Entity during the reporting period to comply with the GP?	
Have the implementation arrangements at the EE(s) been effective during the reporting period?	
Have any capacity gaps affecting GP compliance been identified during the reporting period and if so, what remediation was implemented?	

## 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?	
Were grievances received during the reporting period?	

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

## Rating

Implementing Entity					
Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Comments	Rating
1.1 Improved livelihoods and resilience to climate change of the rural communities, improved food and nutrition security, and ecosystem services	Outcome 4, Outcome 5	1.1 Improved livelihoods and resilience to climate change of the rural communities, improved food and nutrition security, and ecosystem services 1.2 Reduced drudgery for women and children from long distance walk in search of water and firewood 1.3 Strengthened capacity on sustainable water resource management and utilization	Ontrack		Highly Satisfactory
Participatory afforestation program for locally adapted fruit and forest trees and sustainable harvesting and utilization	Outcome 3, Outcome 5	1.1 Improved ecosystem health and delivery of ecosystem goods and services 1.2 Increased sources of employment opportunities resulting from fruits and forestry venture 1.3 Reduced land and forest degradation in the community landscape 1.4 Strengthened knowledge and skills on establishment, propagation and management of fruits and forest tree species	Ontrack		Highly Satisfactory
Integrated climate resilient livelihoods diversification through improved technologies in agriculture developed	Outcome 3, Outcome 6	3.1 Improved household livelihoods and income generation of local communities from fish, crop, livestock and domestic water use. 3.2 Improved equitable water use for multiple agroecological needs by the community; 3.3 Improved governance of water and use of forest resources for climate resilience in target village communities 3.4 Improved capacity on governance of	Ontrack		Highly Satisfactory

		water and use of forest resources for climate resilience in target village communities 3.5 Enhanced capacity of people with knowledge on integrated and diversified technologies for fish, crops and livestock production			
Interventions for integrated management of emerging climate change related pests and diseases	Outcome 3	4.1 Reduced losses from climate change associated emerging insect pest/vector and diseases, hence leading to improved crop and livestock productivity consequently increased farmers' resilience to climate change impacts. 4.2 Strengthened awareness of people on adoption and application of IPM technologies in agriculture	Ontrack		Marginally Satisfactory
Increased knowledge on water harvesting and sustainable use and water management, on nursery vegetable gardens, tree planting and conservation of ecosystems services and diversified income generation in the community.	Outcome 8	Output 5.1 Increased knowledge on water harvesting, safety and sustainable water management 5.2 Increased Knowledge on Nursery techniques and tree planting 5.3 Increased capacity and skills on management of income generation interventions in the community 5.4 Increased capacity of semi arid rural communities in management of emerging pests and diseases	Ontrack		Highly Satisfactory

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

Name	Email
Genoveva Mashenene	genoveva.mashenene@nemc.or.tz

**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. deep wells bore holes with solar power supply has been installed for clean water and for irrigation of vegetable gardens and fruits and forest trees 3. Nurseries for fruits and forest trees have been established in two project sites, 4. Vegetable gardens established and maintained through irrigation from harvested water from the dam, 5. Ten livestock drinking troughs established and 6. 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.

**Executing Entity / Project Coordinator**

Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating	
<p>1.1 Improved livelihoods and resilience to climate change of the rural communities, improved food and nutrition security, and ecosystem services</p> <p>1.2 Reduced drudgery for women and children from long distance walk in search of water and firewood</p> <p>1.3 Strengthened capacity on sustainable water resource management and utilization</p> <p>Community enabled to sustainably manage and use water resources and their infrastructure</p>	<p>Outcome 3, Outcome 5</p>	<p>Four (4) water harvesting dams constructed</p> <p>Improved governance on water use rights, management and distribution</p> <p>At least 5 boreholes for domestic water use established in needy villages</p> <p>80% of women relieved from drudgery and time wasting in fetching</p>	<p>Completed</p>		<p>Highly Satisfactory</p>
<p>Project Outcome(s)</p> <p>1.1 Improved livelihoods and resilience to climate change of the rural communities, improved food and nutrition security, and ecosystem services</p> <p>1.2 Reduced drudgery for women and children from long distance walk in search of water and firewood</p> <p>1.3 Strengthened capacity on sustainable water resource management and utilization</p> <p>1.1 Improved ecosystem health and delivery of ecosystem goods and services</p> <p>1.2 Increased sources of employment opportunities resulting from fruits and forestry venture</p> <p>1.3 Reduced land and forest degradation in the community landscape</p> <p>1.4 Strengthened knowledge and skills on establishment, propagation and management of fruits and forest tree species</p>	<p>Outcome 4, Outcome 5</p>	<p>At least 4 nurseries with multi purpose fruits and forest trees per village established</p> <p>At least 100,000 locally adapted fruits and forest trees planted in the project areas.</p> <p>Increased number of people (i.e. least 30% being women) with knowledge on establishment, propagation and management of fruits and forest tree species.</p> <p>Sustainable use of fruits and forest tree products developed</p>	<p>Completed</p>		<p>Highly Satisfactory</p>
<p>Project Outcome(s)</p> <p>1.1 Improved livelihoods and resilience to climate change of the rural communities, improved food and nutrition security, and ecosystem services</p> <p>1.2 Reduced drudgery for women and children from long distance walk in search of water and firewood</p> <p>1.3 Strengthened capacity on sustainable water resource management and utilization</p> <p>1.1 Improved ecosystem health and delivery of ecosystem goods and services</p> <p>1.2 Increased sources of employment opportunities resulting from fruits and forestry venture</p> <p>1.3 Reduced land and forest degradation in the community landscape</p> <p>1.4 Strengthened knowledge and skills on establishment,</p>	<p>Outcome 3, Outcome 6</p>	<p>At least 30% of whom are women practicing profitable apiculture, fish farming, crop and livestock production.</p> <p>Four model aquaculture farms each with at least 4 ponds established in the project districts</p> <p>four model horticulture farms with diversified vegetable crops established</p> <p>4 livestock water</p>	<p>Ontrack</p>		<p>Highly Satisfactory</p>

<p>propagation and management of fruits and forest tree species 3.1 Improved household livelihoods and income generation of local communities from fish, crop, livestock and domestic water use. 3.2 Improved equitable water use for multiple agroecological needs by the community; 3.3 Improved governance of water and use of forest resources for climate resilience in target village communities 3.4 Improved capacity on governance of water and use of forest resources for climate resilience in target village communities 3.5 Enhanced capacity of people with knowledge on integrated and diversified technologies for fish, crops and livestock production</p>		<p>drinking centers established per project district Four model apiary units established in the entire project area At least 40% of households (of which at least 30% are of women) within target community are integrated in aquaculture, horticulture, livestock and apiculture</p>			
<p>4.1 Reduced losses from climate change associated emerging insect pest/vector and diseases, hence leading to improved crop and livestock productivity consequently increased farmers' resilience to climate change impacts. 4.2 Strengthened awareness of people on adoption and application of IPM technologies in agriculture</p>	<p>Outcome 3, Outcome 6</p>	<p>At least one guideline for each insect pest/vector and disease produced and distributed to target farmers At least 70% community population of which 60% are women farmers involved in the project adopted and implementing the IPM technologies for resilience to climate change</p>	<p>Ontrack</p>		<p>Highly Satisfactory</p>

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

Name	Email	Institution
Paul Kusolwa	kusolwa@sua.ac.tz	Sokoine University of Agriculture

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

- Positive rating depends on level of implementation achieved in the project - Negative due to delayed implementation some on track or on progress - Recommendation timely review feed back of the PPRs will enhance quick implementation and delivery of funds

### Other

Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating	
1.1 Improved livelihoods and resilience to climate change of the rural communities,	Outcome 6	1.1 Improved livelihoods and resilience to climate change of the rural communities, improved	Ontrack		Highly Satisfactory

improved food and nutrition security, and ecosystem services		food and nutrition security, and ecosystem services 1.2 Reduced drudgery for women and children from long distance walk in search of water and firewood 1.3 Strengthened capacity on sustainable water resource management and utilisation			
Participatory afforestation program for locally adapted fruit and forest trees and sustainable harvesting and utilization	Outcome 6	At least 20,000 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		Highly Satisfactory

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

Name	Email
Fredrick Mulinda	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 made significant progress to achieve the targeted indicators for implementation. there is no negative issues as were resolved in the process as lessons learned during implementation. critical risks that affected project implementation were addressed in remediation reports submitted in PPR3 and continuous meeting for capacity and awareness meeting conducted among community that all grievance redress mechanism have been implemented successfully between the project IE and EE for smooth implementation of all target project interventions in each community.

## Overall Rating

### Overall rating

Highly Satisfactory

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

Because most of the targeted interventions have been successfully implemented. even though the project was over ambitious to have set room many objectively outputs to be achieved within the timeframe. However, with the remaining time of no cost extension it is with great hope that the projects activities will be fully completed.

## Project Indicators

### List of indicators

Type of Indicator (indicators towards Objectives, Outcomes, etc...)	Indicator	Baseline	Progress Since Inception	Target for Project End
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Objectives	"Percentage of people with improved livelihoods and resilient to climate change"	0	70%	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%	60%	At least 40% of households disaggregated by gender with improved food and nutrition security
Objectives	"Number of people adopted diversified sources of income generation activities"	5000	40,000	At least 60,000 people adopt diversified sources of income generating activities (60% of the direct beneficiaries)
Objectives	"Number of households having access to water supply"	500	60,000	40,000 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	5	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	240	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	4	At least 4 nurseries with multi purpose

				fruits and forest trees per village established
Components	Number of fruit and forest trees produced and planted on farmlands	0	90000	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	25ha	At least 30 ha (with 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%	70%	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 water harvesting dams	0	4	Twelve (12) model aquaculture farms each with at least 4 ponds established in the project districts
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	4	4 model apiary units (each with 60 beehives) established in the entire project area
Components	Number of livestock diseases control infrastructure in the target areas	0	4	4 dip tanks infrastructures
Components	Developed IPM technologies for management of pests and diseases	1	4	4 project sites implement IPM in crops and livestock production (where 70% of 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	1200	4,000 people trained on sustainable water management
Components	Number of people trained and practicing livelihoods interventions (tree planting, vegetable, fish, livestock production and bee keeping	0	5500	At least 5000 people trained and practicing livelihoods interventions (tree planting, vegetable, fish, livestock production and bee keeping
Components	Types of Knowledge management documents produced and diffused to target project communities and beyond.	0	5	At least 5 types of knowledge management documents (tree planting, vegetable, fish, livestock production and bee keeping) developed and distributed to project beneficiaries
Outputs	Functional dams with harvested water	0	4	Six (6) water-harvesting dams constructed and rehabilitated for increased water availability
Outputs	Functional deep-wells/boreholes with harvested water	0	8	Installation of six bore holes for domestic water use
Outputs	Number of nurseries established and running	0	4	Six community fruits and forest trees nurseries established.
Outputs	Number of trees planted and surviving in the field	0	90,000	Tree planting and management of 100,000 locally adapted fruits and forest trees per project site-farms and catchments
Outputs	Number of aquaculture ponds established	1	4	six aquaculture model farms (ponds) established
Outputs	Number of vegetable farms established	1	7	Six vegetable model farms established
Outputs	Pasture and fodder availability	0	4	Establish 6 pasture and fodder units for

				livestock production
Outputs	Reduced prevalence of tick born diseases	0	4	Six dip tanks for control of tick borne diseases constructed
Outputs	Increased capacity to control emerging plant pests and diseases	0	3	4 Model plant health clinics and surveillance systems established
Outputs	Number of people trained and practicing livelihoods interventions (tree planting, vegetable, fish, livestock production and bee keeping	20	5500	At least 5,000 people (30% of whom are women) practicing profitable apiculture, fish farming, crop and livestock production.
Outputs	Number and types of Knowledge management documents produced and diffused to target project communities and beyond	0	6	At least 5 types of knowledge management documents prepared and distributed to project beneficiaries (on emerging pests and diseases: vegetable production, beekeeping, climate change awareness, water right and management, nursery and tree planting)
Outputs	Establish 6 pasture and fodder units for livestock production	0	4	At least 4 pasture and fodder units for livestock production

## Comments

Note that some targeted indicators indicated twelve is actually 6, example number of aquaculture units: example "Twelve model aquaculture farms each with at least 4 ponds established in the project districts" is actually six as target but was not corrected to six during final proposal submission. therefore all targets indicated as twelve are actually projected as six.

## 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)	Challenges & Opportunities	There was a need to reduce project sites from 6 to 4 in order to improve efficiency and generate tangible outputs within the time Frame and resources allocated to the project. This
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		was attributed to by the length of between project conceptualisation and implementation, wider geographical distribution of the sites, COVID-19 impacts and inflation. Savings were. used to supplement the already constructed dams with boreholes to for diverse water needs and cover diversified vulnerabilities.
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 indicators highlighting the role of women as key actors in climate change adaptation.	Opportunities	Women and youth have proved to be very effective in engaging and delivering results among interventions. The principle of equity and inclusion of gender in each project interventions, they only needed to be recognised, included, trained and given roles and voice during project interventions. More than 80% of the established tree nurseries workers are women. In the year 4 consideration of gender in vegetable production in the four project sites have identified 630 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 on set 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. Eventually the delay of approval of PPR 2 was the key source of delay in delivery of Funds for the remaining years of project life cycle, this has caused to request for No cost extension of 1 year in order to smoothly accomplish the remaining activities/outputs as per project plans.
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. COVID-19 also contributed to negative effect to project implementation, as the launching of the project was totally coincided with the pandemic.

**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

	<p>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. For future project, the designing of project should carefully co-creation of the key elements for climate change adaptation strategies within the community, The future projects should minimise over expansion of project sites unless is justified by increase in the resource allocated by AF. For this project resource allocated was actually minimal for the scale of the project.</p>
<p>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?</p>	
<p><b>Readiness Interventions (Applicable only to NIEs that received one or more readiness grants)</b></p>	
<p>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?</p>	<p>TA-ESGP grants helped ensure that gender, social and environmental requirements were properly incorporated during project design and implementation. Additionally, the Project Formulation Grants (PFG) facilitated detailed stakeholders consultations and relevant assessments which informed the design of interventions that are context specific, inclusive and responsive to community needs. Challenges included complex procedures and limited local awareness and the need to increase the readiness support provided to reach more communities and cover additional preparatory activities. Future project should focus on early stakeholders consultations to ensure deeper community engagement and effort should be made to reduce the complexity on accessing climate finance.</p>
<p>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?</p>	<p>Manuals, guidelines and procedures documents from readiness grants have been essential in strengthening institutional capacity and guiding project implementation. They helped integrate gender consideration, and address environmental and social safeguards. These resources also informed the design and operation of concrete interventions such as block farms, drip irrigation, trees nurseries and solar powered boreholes ensuring projects are inclusive, environmental sound and resilience to climate change.</p>
<p><b>Concrete Adaptation Interventions</b></p>	
<p>What have been the lessons learned, both positive and negative, in implementing concrete adaptation</p>	<p>Positive lessons: Participatory inclusion of the community leads to early adoption of concrete</p>

<p>interventions that would be relevant to the design and implementation of future projects/programmes implementing concrete adaptation interventions?</p>	<p>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 number of people employed in the vegetable value chain was highly significant. The inclusion of knowledge management 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 contamination of the food value chain and therefore safety and health community</p> <p>Negative Lessons: We were too ambitious to commit ourselves in implementing similar concrete actions in a large area within the timeframe and resources in the project; lack scientific study research components is not mainstreamed in the knowledge management 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>
<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?</p>	<p>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</p>
<p><b>Knowledge Management</b></p>	
<p>How has existing information/data/knowledge been used to inform project development and implementation? What kinds of information/data/knowledge were used?</p>	<p>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 sustainable domestic water uses and irrigation emerged to be important adaptation strategy. Experience and linked to local governments and knowledge on local languages have strengthened social integration between project team and target communities.</p>
<p>Has the existing information/data/knowledge been made available to relevant stakeholder? If so, what channels of dissemination have been used?</p>	<p>Yes. Through seminars, workshops, brochures, and handbooks distributed</p>
<p>Please list any knowledge products generated and include hyperlinks whenever possible (e.g. project videos, project stories, studies and technical reports, case studies, training manuals, handbooks, strategies and plans developed, etc.)</p>	<p>"Handbooks: 1. Nursery managements 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</p>

	community 2. Why use pesticidal plants, 3. Beneficial insects in crop and livestock production, 4. Propagation of fruits and forest tree seedlings, 5. Handbook for Bee Keeping and value addition of bee products 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.	yes because the objectives have been met by the end of the project
Describe any difficulties there have been in accessing or retrieving existing information (data or knowledge) that is relevant to the project. Please provide suggestions for improving access to the relevant data.	Most of materials need to be produced in swahili 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 therefore 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.	1. Water harvesting dams: Diversified income generation activities for adaptation to climate change such as tree nurseries, vegetable gardening, aquaculture, establishing drinking water troughs for livestock 2. Bore holes for irrigation and domestic water use has triggered resilience livelihoods opportunities among community members. 3. Introduction of locally adapted species for fuel woods performed very well in nursery and fields establishment 4. 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 troughs. The solar powered water pumps contributes to sustainability of the projects as is almost auto regulated system. 5. 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. " 6. Bee keeping and value chain of bee products 7. Introduction of fruit trees for orchards and as means of future income generation towards sale of fruits 8. Nursery tree seedlings of diversified type of trees for as a business opportunity and income generation for women and youths 9. Animal livestock Nutrition and health for improved livestock productivity through Dip tank restoration, drinking troughs for cattle, vaccination of chicken from among households.

<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? Terminal

### 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	53603	60	60
Target performance at completion	Indirect beneficiaries supported by the project	72900	60	60
Target performance at completion	Total (direct + indirect beneficiaries)	126503	60	60
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)	48730	50	47.735

	beneficiaries)			
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	126503	60	Drought	1: Ineffective
Target performance at completion	53603	60	Drought	4: Effective
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/programme that conduct and update risk and vulnerability assessments	Sector	Scale	Status
Baseline information	4	Agriculture	Local	1: No plans conducted or updated
Target performance at completion	4	Agriculture	Local	2: Undertaking or updating of assessments in progress
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	0	1: Risk knowledge	Drought	Local	3
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	60	100	Water management	3: Medium capacity
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	60	30	Public
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	Public	Local	Water management	3: Medium capacity
Performance at mid-term	Public	Regional	Water management	2: Low capacity

Performance at completion				
<b>Output 2.2. Increased readiness and capacity of national and sub-national entities to directly access and program adaptation finance</b>				
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	1	National	Water management	4: High capacity
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	5	Water management
Target performance at completion	60	Water management
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	53603	60	4: Mostly aware
Target performance at completion	53603	50	5: Fully aware
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 committees/associations	Level of awareness
Baseline information	1	40% to 60%	3: Partially aware
Target performance at completion	4	61% to 80%	4: Mostly aware
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	0	Handbooks	Local
Target performance at completion	6	Handbooks	Local
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	Water management	Local	4: Mostly responsive (Most defined elements)
Target performance at completion	Water management	Local	5: Highly responsive (All defined elements)
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	Water management	2: Physical asset (produced/improved/strengthened)	4: Mostly Improved
Target performance at completion	Water management	2: Physical asset (produced/improved/strengthened)	5: Fully improved
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	0		Water management
Target performance at completion	9		Water management
Target performance at completion	7		Agriculture
Target performance at completion	7		Food security
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	1: Ineffective	Forests	Biological assets
Target performance at completion	4: Effective	Forests	Biological assets
Target performance at completion	4: Effective	Water management	Water areas
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	Unit	Effectiveness of protection/rehabilitation
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		ecosystems protected/rehabilitated		
Baseline information	Forests	0	ha protected	2: Partially effective
Target performance at completion	Forests	4	ha protected	4: Effective
Target performance at completion	Catchment area/Watershed/Aquifer	4	ha protected	4: Effective
Target performance at completion	Cultivated land/Agricultural land	6	ha protected	4: Effective
Target performance at completion	Rangelands	4	ha protected	4: Effective
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	5000	10	3: Moderate improvement
Target performance at completion	5000	20	4: High improvement
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	6000	10	From 10% to 20%	Agricultural-related
Target performance at completion	3600	60	From 10% to 20%	Agriculture
Target performance at completion	360	30	From 30% to 40%	Aquaculture
Target performance at completion	1800	10	From 30% to 40%	Livestock production
Target performance at completion	240	10	From 30% to 40%	Forestry
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	5	Physical capital	Agriculture	Irrigation system
Target performance at completion	60	Physical capital	Agriculture	Community-based adaptation
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 adjusted	Sector	Scale	Type
Baseline information				
Target performance at completion	4	Ecosystem based adaptation	National	Environmental policy
Performance at mid-term			National	Environmental policy
Performance at completion				

completion			
<b>Indicator 7.2: No. of targeted development strategies with incorporated climate change priorities enforced</b>			
	<b>No. of Development strategies</b>	<b>Regulation</b>	<b>Effectiveness</b>
Baseline information			
Target performance at completion	2	5: Fully enforced (All elements implemented)	4: Effective
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**

	<b>Sector of innovative practice</b>	<b>Geographic Scale</b>	<b>Type</b>
Baseline information			
Target performance at completion	Water management	Local	Innovation scaled-up
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

	<b>No. of innovative practices/ tools technologies</b>	<b>Sector</b>	<b>Status</b>	<b>Effectiveness</b>
Baseline information				
Target performance at completion	20	Ecosystem based adaptation	Completed innovation practices	4: Effective
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**

	<b>No. of key findings generated</b>	<b>Type</b>	<b>Effectiveness</b>
Baseline information			
Target performance at completion	14	Innovative practice	4: Effective

Performance at mid-term	9	Innovative practice	2: Partially effective
Performance at completion			