

Project Performance Report

Overview

Period of Report (Dates)	7/1/2023 - 6/30/2024
Project Title	Adaptation to Climate-Induced Water Stresses through Integrated Landscape Management in Bhutan
Project Summary	
Database Number	AF00000229
Implementing Entity (IE)	Bhutan Trust Fund for Environmental Conservation
Type of IE	National Implementing Entity
Country(ies)	Bhutan
Relevant Geographic Points (i.e. cities, villages, bodies of water)	
Name of Implementing Entity Focal Point	

Project Milestones	
AFB Approval Date	10/14/2022
IE-AFB Agreement Signature Date	4/14/2023
Start of Project/Programme	5/30/2023
Actual Mid-term Review Date (if applicable)	
Original Completion Date	
Revised Completion Date after approval of extension request (if applicable)	

Were there any approval condition for this Project?

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

List the Website address (URL) of project

Project Contacts			
National/Regional Project Manager/Coordinator	Name	Email	Date

Financial Data

Disbursement of AF grant funds	
Cumulative total disbursement from Trustee to IE as of date (\$)	\$3,605,597.00
Estimated cumulative total disbursement from IE to EEs as of date (\$)	\$3,472,795.00
Project disbursement rate (%)	37.2
Project execution rate (%)	37.20
Add any comments on AF Grant Funds	<p>The BTF disbursed a total amount of Nu.283,704,000 which is equivalent to \$3,472,795 to DA as the project budget for Fiscal Year July 2023- June 2024- under the Adaptation Fund Project. The disbursement budget of \$ 3,430,354.03 was further allocated to respective Executing Entity Unit's including the project Cost to the PMU as follows: 1.Department of water, Including PMU budget: Nu. 11,893,000 (\$ 145,854.10) 2. Department of Agriculture:15,828,000 (\$ 194,113.32) 3. Department of Local Government & disaster management: Nu.2,038,000 (\$ 24,993.87) 4.Project Implementing Unit, Paro Dzongkhag: Nu.129,436,000 (\$1,587,392.69) 5. Project Implementing Unit, Tsirang Dzongkhag: Nu. 62,270,000 (\$763,674.27). From total budget under Tsirang Dzongkhag Nu.2,880,000 (\$ 35,320.09) was later transferred to Department of Infrastructure Development 6. Project Implementing Unit, Dagana Dzongkhag: Nu.62,239,000 (\$763,294.09) Of the total released budget of \$3,472,795, a total budget of \$ 1,480,638.15 (including the advances) was utilized in the Year 1 (July, 2023 to June, 2024). A balance of Nu.1,992,156.85 is with Project implementation which will be used in the FY 2024-2025.</p> <p>Additionally, a new budget of Nu. 2,298,261.79 is requested from the Adaptation Fund for the Year 2 - July 2024-June 2025. The full budget utilization for the 1st year was not achieve as most of the major works like the construction of climate resilient infrastructures for irrigation and drinking water supply, where the major chunk of budget was allocated were awarded for work in the 2nd half of the Year</p>
Investment Income (\$)	\$0.00
Cumulative Investment Income since inception (\$)	\$0.00

Expenditure Data	
Output	Amount (\$)
Output 1.1 Watershed management intervention measures implemented	\$9,225.18
Output 1.2 PES schemes scaled-up	\$2,452.78
Output 1.3 Water sources' recharge interventions adopted	\$4,154.39

Output 1.4 Wetland monitoring system for informed decision-making established	\$0.00
Output 2.1 Climate- and disaster-resilient drinking water infrastructure established	\$119,082.47
Output 2.2 Climate- and disaster-resilient irrigation infrastructure established	\$371,768.46
Output 2.3: Innovative technologies for trapping water adopted	\$0.00
Output 2.4: User groups in the community strengthened for effective management of irrigation and drinking water	\$0.00
Output 3.1 SLM in vulnerable and degraded areas implemented	\$154,660.84
Output 3.2 Climate change information, products and services made available and accessible	\$8,235.54
Output 4.1: Institutional mechanisms in LGs strengthened for CCA and gender mainstreaming	\$25,018.40
IE fee (\$)	\$41,007.52
Execution cost (\$)	\$70,847.25

Planned Expenditure Schedule

Output	Projected Cost (\$)	Estimated Completion Date
Output 1.1 Watershed management intervention measures implemented	\$35,945.91	5/31/2025
Output 1.2 PES schemes scaled-up	\$8,462.10	5/31/2025
Output 1.3 Water sources' recharge interventions adopted	\$77,400.67	6/30/2025
Output 1.4 Wetland monitoring system for informed decision-making established	\$0.00	6/30/2025
Output 2.1: Climate- and disaster-resilient drinking water infrastructure established	\$3,904,013.37	6/30/2025
Output 2.2: Climate- and disaster-resilient irrigation infrastructure established	\$1,319,967.22	5/31/2025
Output 2.3: Innovative technologies for trapping water adopted	\$0.00	3/31/2025
Output 2.4: User groups in the community strengthened for effective management of irrigation and drinking water	\$12,631.84	6/30/2025
Output 3.1: SLM in vulnerable and degraded areas implemented	\$120,715.56	5/31/2025
Output 3.2: Climate change information, products and services made available and accessible	\$73,810.08	5/31/2025
Output 4.1: Institutional mechanisms in LGs strengthened for CCA and gender mainstreaming	\$49,938.68	5/31/2025
IE fee (\$)	\$206,360.54	
Execution cost (\$)	\$102,150.86	

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
Total assurance of the economic environment would still remain uncertain as the project intends to create resilience of communities through agricultural activities that are dependent on vagaries of climate and other allied natural phenomena.	Moderate	Awareness and sensitization was carried out to Local Government leaders.
All the executing agencies are government agencies and proposed plans are aligned with the existing FYP. Therefore, the project will have full political support.	Low	The Project Management Unit stationed at the Department of Water with Royal Government of Bhutan ensured good coordination with all stakeholders including central agencies.
Poor efficiency in implementation due to difficulties in decision-making or to a lack of formal authority.	Low	Built capacity building of the communities involved in the project by the project implementation unit. The ESG expert has provided sensitization during field visit.
Failure to respond to needs of the intended beneficiaries.	Low	All project activities are needs-based and aligned with the 12th FYP were implemented according to the approved project document (prepared in consultation with beneficiaries).
If the project receives a negative image, this would impact BT FEC reputation	Low	The Project Management Unit worked closely with the Executing entities and field implementers to ensure the progress are progressing well. Dedicated M&E conducted bi-annual monitoring to ensure timely achievement of progress and ESG intervention has been plus point in keeping the risk low
Effective availability and use of financial resources during implementation. Running costs of supported activities over time.	Low	Budget officer for the project in consultation with DA focal point ensured smooth flow of financial resources for the project implementation. Accountant and project officer at the local level made sure fund released based on work plan budgeted.
Depending on inflation variation in the region, cost escalation could be foreseen, however, following the past trend of US\$ appreciating against BTN (national currency), forex gain could offset	Low	There was no cost escalations for this reporting period. Hence there is no need to put measures in place.
Procurement (goods/services) NIE and executing agencies have well established procurement norms adapted as part of the World Bank procurement processes, therefore, no risk is foreseen	Low	NA

Delays in disbursements	Low	Disbursements of budget by NIE and executing agencies has been timely based on the well established service delivery schedule and standards. Hence, no delay occurred in the first year.
Lack of communication re: project activities and results	Low	The project's dedicated focal at NIE, PMU and NDA ensured smooth communication with AF and as well with the project executing agencies to support communication regarding project activities and results on weekly basis and as and when required. The communication officer at the NIE played vital role in disseminating knowledge and events on social media and other platforms.
Lack of accountability internal systems	Low	The NIE has an established periodic planning and reporting schedule through a designated focal person for each component. Further, the project through established stakeholder engagement plan defined specific roles and responsibilities of all stakeholders.
Implementation risks due to COVID-19 Description of risk: Due to the Covid-19 pandemic and the restrictive measures put in place may hamper the timely implementation of the projects. For instance, consultation meetings with the community and other stakeholders might be restricted. Further, travel may also be restrictive depending on the covid-19 situation in future. Since Bhutan is an import dependent country and if the Covid-19 situation persists, import of key materials for the implementation of the project may be delayed.	Low	The migrant workers were mandatorily screened at the entry point and periodic health checkups were conducted by local health workers coordinated by field project focal and contractors.
All agencies involved have adequate and qualified human resources. Certain specific technical capacity may be required for enhancement of knowledge and skills for enhancement of project implementation	Low	Total of 32 participants were trained (12 women; 37.50%) This includes: 1. 7 technicians from PIU and Central Agencies. 2. 23 Engineers from PIU and Central Agencies. 3. 1 Project Manager. 4. 1 Project Engineer. 30 Engineers and Technicians (50% women).
Lack of capacity related to poor IT systems	Low	Both at NIE and Executing levels, has designated IT officers and dealt information related to technology facilities.
Lack of determination of individuals, companies or government entities that participate in the project may lead to impediments during implementation (e.g., delays in payments)	Low	The NIE was established under the Royal Charter. The government as the executing agency, the project already had the legal identity. No risks were occurred.

Critical Risks Affecting Progress (Not identified at project design)

Are there any critical risks with a 50% or > likelihood of affecting progress of project? No

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

Identified Risk	Current Status	Steps taken to mitigate risk
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Risk Measures

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

The project focal and the Local Government officials of the beneficiary Gewogs and also the contactor of the two large drinking water schemes of the project activity were briefed about the potential project risk and were requested to make concerted efforts to mitigate the risk. Also, the project monitoring by Monitoring and Evaluation Officer and Environment, Social Safeguards and Gender (ESG) Expert was conducted to ensure proper project execution. As a result, the project did not encounter any risk in this reporting year that could jeopardize the project.

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)	"Negative (Social): Community conflicts due to lack of awareness on water sharing rights and proportions."
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.	"1.1 Awareness to project stakeholders, project staff, local community representatives and project contractors on relevant provisions of Water Act, Land Act, National Environment Protection Act and regulations"
List the monitoring indicator(s) for each impact identified.	*No. of people benefited / Number of people participated in sensitization by stakeholder category and gender.
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been implemented during the reporting period	*Local Government officials, sector heads, and dzongkhag (district) focal(s) from all the 13 beneficiary gewogs are sensitized on Water Act and policies. A follow-up sensitization including contractors for relevant regulation is planned for Year 2.
Describe the residual impact for each impact	Since construction activities/ infrastructure in the

identified - if any - using the monitoring indicator(s)	project sites are ongoing, the restoration of the exposed soil and replantation in the clearance with native vegetation has not been undertaken in this reporting year. The restoration activities will start with the completion of the laying of the pipeline and the completion of the construction activities.
Describe remedial action for residual impacts that will be taken	Since construction activities/ infrastructure in the project sites are ongoing, the restoration of the exposed soil and replantation in the clearance with native vegetation has not been undertaken in this reporting year. The restoration activities will start with the completion of the laying of the pipeline and the completion of the construction activities.
2.Access and equity	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Negative (Social): -Poor households and new settlers or absentee households may face challenges of accessing project benefits. -Conflicts due to lack of clarity on proportions of water allocation.
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.	2.1 Articles of association of WUAs to include clause on: - community exemptions for poor households in terms of financial or labour contributions to the water user groups/association. - mention on providing equal access to new settlers. 2.2 Articles of association of WUAs to include clause defining proportion water to be allocated as well as rates of WUA fees by different categories such as rural household, commercial buildings or industrial establishment.
List the monitoring indicator(s) for each impact identified.	"*All project supported WUAs are registered with concerned gewogs and WUA Articles of association are available in gewog offices. *All WUA Articles of association defines community exemptions and conditions of exemptions; right of access to water by all and water allocation framework".
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been implemented during the reporting period	"NA for year 1. *The traditional practice of WUAs exists for Lajab, Tsangkha, and Drujaygang Gewogs and waving of labor and monetary contributions for poor households also exists. *The process of formalization is needed for the establishment.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
3.Marginalized and vulnerable Groups	
Are environmental or social risks present as per table	Yes

II.K (II.L for REG) of the proposal?	
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)	"Negative (Social): Marginalized and Vulnerable households may face challenges of project accessing 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.	"3.1 WUA articles include clause on: -community exemptions for poor households in terms of financial or labour contributions to the water user groups/association. -mention on providing equal access to new settlers 3.2 Water transmission line to include T-points for all settlements to enable distribution from the main water line to member communities"
List the monitoring indicator(s) for each impact identified.	"*All project supported WUAs are registered with concerned gewogs and WUA Articles of association are available in gewog offices. *All WUA Articles of association defines community exemptions and conditions of exemptions; right of access to water by all and water allocation framework. *Every community has a water distribution point from the main water conveyance line"
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been implemented during the reporting period	The project implementation is designed to avoid labor or financial contributions from the beneficiary for the construction of the project-supported, climate-resilient water infrastructures. The contractors undertake all the construction-related activities. Such arrangements ensure that there is no pressure for labor and financial contributions from vulnerable households. During the project design time only, all the project beneficiaries are documented to ensure a uniform supply of water. Further, in the 2nd Year onwards, the Water Users Association (WUA) will be formed for its continuity. This is because the consultation leading to the formation of WUAs are budgeted from Year 2 onwards, the identified impacts are considered "No Applicable for Year 1. T-point allocation ensures water connection to all households, including the vulnerable groups. The T-points also provide provisions for water supply to new settlers in the future. The NA for Year 1 means the activities related to women's role in the formal Water User Association which is scheduled only from Year 2 onwards. Apart from this, the women are participating in project-related workshops and training as part of the program under different Components of the project.
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	NA
4.Human rights	
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	
5.Gender equality and women's empowerment	
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)	"Negative (Social): Women-headed households may face challenges in project accessing benefits Overall participation of women in development activities may remain weak.
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.	4.1 Include women in training community members on water governance and management including on book-keeping 4.2 Ensure women to take leadership positions of WUAs.4.3 Encourage female workers at project sites to form a committee of their representatives to discuss their concerns and issues with the management on a weekly basis.4.4 Provide adequate and separate sanitation facilities for men and women .
List the monitoring indicator(s) for each impact identified.	50% of participants at community level consultation workshop and trainings supported by the project comprise of women and youth. *30% officer bearers of WUAs supported by the project are women.Project

	sites where women workers are involved have a woman representative .All project sites have separate sanitation facilities for men and women
State the baseline condition for each monitoring indicator	NA
Describe each safeguard measure that has been implemented during the reporting period	"NA for year 1. Efforts are made to include women and youth in every workshop and training. During the process of WUA formalization, efforts will be made to ensure 30% are kept aside for woman.The contractors are brief and encouraged to include women in project sites. Currently, limited women are assigned for office tasks.Fully implemented: Separate sanitation facilities are available in campsite.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
6.Core labour rights	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	"Negative (social): Project activities may deviate from core labor standards as identified by the International Labor Organization and Labor & Employment Act 2007. Health and Safety of workers may be compromised."
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.	"5.1 Project's contractual arrangement with contractors include clauses on; -equal pay for equal work hours to for workers in the project activities - Occupational health and safety provisions in the budget for contract bidding. -safety measures are implemented while implementing work and PPE and safety gears are provided and used by workers at project site. Maintain PPE Issuance Register at sites. -Provide first aid kits for minor treatment at site throughout the construction phase -Contractual arrangements to include proper establishment of amenities in temporary worker camps and provide proper working conditions as per labour regulations, - Worker data to be maintained at site with age and identify cards. Verify labourers' age by checking their identity cards and date of birth prior to their engagement in the project. -Check salary disbursement sheets for salary amount paid. Interview labourers to verify labour wage amount received -Maintain Grievance Register for proper documentation of the grievance lodged and resolution dispensed. 5.2 Awareness to be conducted by project/local administration to contractors and local

	employee on labour regulations and standards.
List the monitoring indicator(s) for each impact identified.	*PPE Issuance Register maintained at sites. *Worker data to be maintained at site with age and identify cards. *Salary disbursement sheets show equal pay for equal work. *Physical site conditions show sanitation, waste, first aid, signages facilities. *Proportion of workers at site who are aware of occupational health and safety provisions and standards. *Proportion of workers at site who are aware of occupational health and safety provisions and standards.
State the baseline condition for each monitoring indicator	NA
Describe each safeguard measure that has been implemented during the reporting period	"Fully implemented: *Safety gears are part of contract terms. Focal Engineer at project sites and Monitoring & Evaluation Officer's ensures PPE are distributed and used. *The contractor has maintained work register. *The camp site, sanitation, safety and waste management are in place and periodically monitored. *Grievance Redressal Mechanism instituted for grievance registration & redressal. *Workers are brief on OHS provision and standards. The site engineers are instructed to periodically brief the workers & contractors on safety standards, and monitor.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
7.Indigenous people	
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	
8.Involuntary resettlement	
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)	Negative (Social): Project activities may be delayed.
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.	Ensure consent on project activities from all affected individuals and parties including sectoral and agency clearances and monitor terms and conditions specified in these clearances.
List the monitoring indicator(s) for each impact identified.	Environmental clearance, social clearances, sectoral clearance and consent letters from individuals who may be affected (See Section M for initial clearance and consent document).
State the baseline condition for each monitoring indicator	Initial clearances for project's construction activities are availed during the project proposal stage.
Describe each safeguard measure that has been implemented during the reporting period	Fully implemented:All the clearances are valid. New clearances are sought as and when required, and old ones are renewed before expiry.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
9.Protection of natural habitats	
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)	"Negative (Environmental): Minor site-specific disturbances to local forest soils.May contribute to local forest degradation Possibility of introducing invasive species into local vegetation."
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.	7.1 Environmental and forestry clearance to be made mandatory for project activities and terms and conditions on the relevant clearances to be monitored. 7.2 Ensure proper burying of pipes, refilling of trenches and revegetation of trenched soil. Disposed un-restored excavated muck safely in designated sites. 7.3 Only native species to be used for any plantation in forest areas for restoration works. No introduction of alien crop/plant species to be supported by the project. 7.4 Stockpile the

	construction materials away from the aquatic environment that may allow for release into the environment
List the monitoring indicator(s) for each impact identified.	*Environmental clearance and forest clearance are renewed without obstacles " *Proportion of pipes buried, trenches refilled, and revelation of trenched soil. Presence of undisposed excavated muds. Proportion of native species planted for restoration works. Presence of alien species introduction by the project." *Presence of leaching from construction materials into the environment.
State the baseline condition for each monitoring indicator	Initial clearances for project's construction activities are availed during the project proposal stage
Describe each safeguard measure that has been implemented during the reporting period	Fully implemented: All the clearances are valid. New clearances are sought as and when required, and old ones are renewed before expiry. Environmental and forestry clearance are valid and up to date. Regular monitoring of the compliance requirement is communicated to site focals. Periodic project monitoring for compliance is done by the PMU. N/A for year 1. However, sensitized contractors, laborers, locals, and gewog officials, on this requirement. "N/A for Year 1" is because the burial of the pipeline and re-filling of the trenching has not started. Some of these activities will start in the second half of Year 2 and will end with the completion of the project infrastructures.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	Na
10. Conservation of biological diversity	
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)	"Negative (Environmental): Native species conservation may be hampered. Reduced environmental flow into natural drainages may negative impact local 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.	30% of the lean flow of natural streams at catchment to be maintained as e-flow in all project activities as per the Water Regulations and in alignment with the Water Act 2011. Design of the scheme should be based on discharge measurements at the source during lean and peak rainfall seasons. SLM component to encourage traditional varieties in the wet season when pest outbreaks are common of farmers consider modern varieties during dry months with advantage of the assured irrigation so that

	traditional crop varieties and not lost.
List the monitoring indicator(s) for each impact identified.	Discharge measurement records at water source during lean and peak rainfall seasons for all sites. E-flow calculations. Record of native crops varieties of major cereals and vegetable crops in irrigation sites and calendar of cultivation
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been implemented during the reporting period	Flow discharge is assessed as per the procedure, based on which design calculation is done. Generally 30% is maintained as the E-flow requirement. "N/A for year 1. Farmers are already sensitized on SLM, IPM, and crops varieties. Reiterated the importance of these techniques by the ESG Expert." N/A for Year 1" is as per the Environment and Social Management Plan (ESMP) of the project which has placed the timing for the implementation from Year 2 onwards. The timing was designed to match the completion of the irrigation scheme ensuring a reliable water supply. The activities on the sensitization of farmers in Sustainable Land Management technologies started in Year 1 paving the path for implementation of sustainable practices with the assured irrigation water.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
11.Climate change	
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)	"Negative (Economic): Project assets may be damaged causing economic losses or may not function to optimum capacity."
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.	Incorporate climate-resilient design of infrastructure and construct structures combining concrete infrastructure along with bio-engineering measures as a means to enhance strength and resilience of infrastructure against landslides and floods such as use of pipes supported by pillars or suspended pipes at stream crossings, reinforcement with concrete protection walls at intakes, reservoirs, bio-engineering techniques in unstable areas. Train engineers in climate resilient designs and monitor implementation of construction of climate resilient infrastructure and train WUA office bearers on minor water infrastructure maintenance and use of tools and technologies and efficient management. Project

	contractual arrangement to include an O&M period during which any events such as burst of pipes and eventual damage to agriculture lands to be restored by the contractor during the liability period. Carry out site specific ESIA as per activity design and prepare activity specific ESMP.
List the monitoring indicator(s) for each impact identified.	Infrastructure are designed and constructed as per the standard specified in the drawing. Already number of engineers and technician are trained in Climate Resilient Water Infrastructures aspects. Training completed with a total of 32 engineers and technicians including 20 male and 12 female attending the training. The activity on WUA is for Year 2. However, sensitized beneficiaries, gewog officials, and engineers on this training during the ESG Expert visit. It is complied through the liability period which requires restoration within 24 months. ESG Expert recruited to carry out ESIA and ESMP activity for the project.
State the baseline condition for each monitoring indicator	NA
Describe each safeguard measure that has been implemented during the reporting period	Infrastructure are designed and constructed as per the standard specified in the drawing. Already number of engineers and technician are trained in Climate Resilient Water Infrastructures aspects. Training completed with a total of 32 engineers and technicians including 20 male and 12 female attending the training. The activity on WUA is for Year 2. However, sensitized beneficiaries, Gewog officials, and engineers on this training during the ESG Expert visit. It is complied through the liability period which requires restoration within 24 months. ESG Expert recruited to carry out ESIA and ESMP activity for the project.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
12.Pollution prevention and resource efficiency	
Are environmental or social risks present as per table II.K (II.L for REG) of the proposal?	Yes
During project/programme formulation, an impact assessment was carried out for the risks identified. Have impacts been identified that require management actions to prevent unacceptable impacts? (as per II.K/II.L)	Yes
List the identified impacts for which safeguard measures are required (as per II.K/II.L)	Negative (Environmental): Possibility of pollution of soils and reduced soil fertility of irrigated lands. Decertation of landscapes, soil pollution and water 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	Sustainable land mal-management interventions to include tail end and field water management and awareness on long terms negative impact on loss of

during the reporting period. Please break down the safeguard measures by activity.	soil fertility through application of chemical fertilizer. -benefits of sustainable soil fertility management interventions. Contractual arrangements to include proper establishment of amenities in temporary worker camps including proper waste management. Organic wastes to be disposed in pits dug near the camp and keep non-degradable wastes in sacks for transfer to waste collectors.
List the monitoring indicator(s) for each impact identified.	Tail end water management and SLM training provided to communities. Contract agreements include a clause on providing basic amenities at worker camps including waste management All camps with proper waste management.
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been implemented during the reporting period	N/A for year 1. However, farmers are already sensitized on this by PIU and DOA. Fully implemented. Contract agreement reflected the need for basic amenities. Toilets, waste management, water supply first aid kits etc., are all present camp sites. Organic and solid wastes are segregated. Organic waste is buried while solid is disposed off properly. Since the construction of the project-supported schemes are under construction and the water supply has not reached the beneficiaries, the tailwater management under ESP 12 is planned from Year 2 onwards. Though the activities on SLM have started from Year 1, the activity on tail-water management will start from Year 2.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
13.Public health	
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)	Negative (Social): Cause community health concerns. Health and Safety of workers may be compromised.
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.	Ensure project contractors at site implement health safety protocols from the start include prior medical screening protocols and maintenance of first aid kits at worker camp sites. Locate worker campsites away from local settlements.
List the monitoring indicator(s) for each impact identified.	Medical screening reports of workers. Written statement of health and safety policy. Availability of first aid kit at worker campsite. Location of migrant worker camp sites.
State the baseline condition for each monitoring	N/A

indicator	
Describe each safeguard measure that has been implemented during the reporting period	All foreign laborers are automatically screened on entry. In Lajab gewog, they are also screened regularly everytime health professionals visit the Gewog. First aids are available at camp site. Camps are relatively located away from settlements.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
14.Physical and cultural heritage	
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)	Negative (Social): Unintentional desecration of local sacred/cultural sites and conflict with local 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.	Orient migrant workers on local norms and sacred sites in project locations. Where cultural sites are observed in the project areas, cultural clearance are sought for project activities. The clearance document defines terms and conditions that enable avoidance of any harm on such assets. Monitor compliance of conditions specified in cultural clearance for project activities. Alignment pipes and water lines through cultural sites to be avoided.
List the monitoring indicator(s) for each impact identified.	Awareness of local norms and sacred sites by migrant workers. Cultural clearance are renewed without obstacles.
State the baseline condition for each monitoring indicator	N/A
Describe each safeguard measure that has been implemented during the reporting period	The migrant workers are sensitized about the local norms, culture and sacred sites and the project focal periodically keeps sensitizing. Fully complied:Cultural clearance availed wherever the project activities passes through cultural sites.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA
15.Lands and soil conservation	
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)	Negative (Environmental): Local mudslide and soil erosions.
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.	Exposed soil to be restored back into the trench after pipe layout and minor clearance sites to be restored by planting native plants. Contractual arrangements to include proper restoration of exposed soils and access trails. Advocate use of integrated pest management practices for preventing and managing pests and promote and use bio-pesticides under the project for managing pests in paddy and vegetables. Ensure the project has valid environmental clearance and its attachments. Ensure the terms and conditions reflected in the environmental clearance and its attachments are implemented.
List the monitoring indicator(s) for each impact identified.	Contract documents include clause on proper restoration of exposed soils and access trails used during construction period. SLM trainings and sensitization to communities include topics on integrated pest management practices and bio-pesticides. Valid environmental clearance and status of compliance to terms and conditions laid out in the clearance documents.
State the baseline condition for each monitoring indicator	Initial clearance and consents sought during project proposal stage.
Describe each safeguard measure that has been implemented during the reporting period	While there is no specific clause in the contract agreement, the contractor's liability period requires them to address and mitigate any issues, such as damage from burst pipes or harm to agricultural lands, within 24 months after the completion of work. Training conducted for field based SLM technology including IPM practices. All clearances are valid. The project focal are advised to stringently monitor the compliance to the terms and conditions of the clearances. Since construction activities/ infrastructure in the project sites are ongoing, the restoration of the exposed soil and replantation in the clearance with native vegetation has not been undertaken in this reporting year. The restoration activities will start with the completion of the laying of the pipeline and the completion of the construction activities. Regarding the training on SLM and IPM, the training reached 784 people from the beneficiary communities of two Gewogs - Semjong in Tsirang and Lajab in Dagana-. The trained farmers are reportedly fertilizing the developed land by tethering cattle for dung and urine and planting legumes for natural soil enrichment.
Describe the residual impact for each impact identified - if any - using the monitoring indicator(s)	NA
Describe remedial action for residual impacts that will be taken	NA

Section 2: Monitoring for unanticipated impacts / corrective actions required

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

Section 3: Categorisation

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

Section 4: Implementation arrangements

What arrangements have been put in place by the Implementing Entity during the reporting period to implement the required ESP safeguard measures?	The National Implementing Entity conducted presentation and sensitization meeting on the 15 safeguards- during its bilateral meetings conducted right after project approval across 3 project areas. Bilateral meetings were attended by the Gup local government leader, Dzongda, sub-national leader and sectors head of both local government and sub-national who are directly involved in the design, implementation and reporting of the project. During the reporting period, the dedicated Monitoring and evaluation officer also carried bi-annual monitoring to ensure ESP compliance and reviewed if required clearances are up to date in consultation with the beneficiaries and field implementers including responsible sectors. In addition, the safeguard specialist of the project also conducted document review and visited project sites. Thorough site inspections and due diligence were conducted as per 15 ES safeguards. The findings from the site were presented to the Project Team and actions required were also taken immediately.
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 Executing Entities have ensured the implementation of the ESG requirement of the project by integrating the ESMP requirement in their respective activities. The Department of Water, supported by the PMU has sensitized the Local Government officials and beneficiary communities on the project's ESMP requirements and how to integrate them while implementing project-funded activities in their respective Gewogs. The Department of Water as the host agency for the PMU has also recruited a Project Engineer to oversee the implementation of the project-funded infrastructures and ensure it aligns with the project's ESMP requirements. Additionally, Project engineer,

	dzongkhag project implementation unit relevant sectors and Safeguard specialist in coordination with Project Management Unit and Executing Entities conducted sensitization and awareness on ESP safeguards and ensured the implementation through document review, physical field visits and person to person consultation. Any progress and challenges related to ESP safeguards were discussed and addressed through consultative process.
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

Section 6: Grievances

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

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

Comments

The Grievance Redressal Mechanism for this project was presented and endorsed in the 2nd Project Steering Committee (PSC) held on March 4, 2024. Based on the endorsement, the Grievance Redressal Committee was instituted at the Gewog, Dzongkhag and Central (PSC) Level. No grievance was reported in the first year of implementation. 1. During the annual Project Performance Reporting workshop, project executing entities of the coordinating agency, project implementation units, sub-national agencies, field implementers,

local communities were sensitized on grievances and mechanisms available to report and address grievances related to the project. 2.The M&E Officer, Safeguard specialist and sub-national agencies also played a role in dissemination of grievances through distribution of written materials distributed to the beneficiary Dzongkhags and Gewogs. Furthermore during its community meetings communities were thoroughly informed of grievance redressed mechanisms and steps involved in putting up grievance and addressing them.

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
Executives of Water User's Associations	Output	Proportion of women WUA office bearers (executives)	11%	30%	Good
Capacity building of engineers in climate resilient water supply infrastructures.	Output	Number of Engineers and technicians trained	0	30 Engineers and Technicians (50% women).	Good
Participation in SLM action planning and training	Output	Percentage of women participants in participatory action planning and field based specialized training on SLM	0	60%	Good
Participation in sensitization of agro-met services	Output	Number of women participants in Sensitization of agro-met services in project areas completed	0	50%	Good
Mainstreaming CCA and gender in local annual and Five Year	Output	Number of LGs effectively mainstreaming CCA and gender	Basic awareness	13 project Gewog LG functionaries & communities.	Good

Plans		in LG plans, programmes and activities			
Project beneficiary	Objective	No. of direct beneficiaries	0	36,464(19,249 male and 17,215 female)	Good
Project beneficiary	Objective	No. of indirect beneficiaries	0	139,661(72,441 male and 67,220 female)	Good

Section 2: Quality during implementation and at exit

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

Gender equality and women's empowerment issues	Rated result for the reporting period	Provide justification of the rating provided
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Section 3: Implementation arrangements

What arrangements have been put in place by the Implementing Entity during the reporting period to comply with the GP	Ensured timely conduct of awareness on gender equality and women's empowerment requirement under the Adaptation Fund's Gender compliance across project activities during: (i) project team monitoring visit (14-21 April 2024) (ii) project performance training (27- 28 November 2023) (iii)annual workplan & budget breakdown for financial year 2024-2025 and progress reporting of the 1st Semi-annual July-December 2023 (February 26-27 2024) (iv) annual project performance reporting workshop(July 3-5 2024) as per Adaptation Fund gender policy. The project also recruited and inducted ESG expert to review, monitor and document gender action plans and ensure compliance with the Gender policy. The project management Unit was encouraged to timely remind on compliance with AF's policies, women empowerment and gender equality.
Have the implementation arrangements at the IE been effective during the reporting period?	Yes
What arrangements have been put in place by each Executing Entity during the reporting period to comply with the GP?	1. Due to the difficult terrain in the construction site, the women's participation in the construction activities is limited to office tasks. As of Year 1, only one woman is assigned the Supervisor role in one of the construction sites. 2. To encourage women's participation in SLM activities, the action planning, sensitization, and training related to SLM was taken to Chiwog (Village) level. This has enabled women to participate in the SLM activities as they could easily attend and consult for decision-making. There is an increased awareness of women participation across project activities since inception due to continuous awareness and sensitization in workshops,

	programs and sessions mentioned above. The gender equality and women empowerment expected to improve through planned programs and initiatives charted in the ESG plan. All the EE complied with the Gender Action Plan to advocate and adopted balance approach to gender-inclusion so that the proportionate gender representation is met for all the project activities support by the AF. The contractor's constructing the water supply schemes were encourage to employ female workers. In the Sustainable Land Management practices, the decision making authority lies with the men as the head of the households. Since women cannot make the decision regarding if the household wants to implement SLM or not, the women turn-out is lesser than anticipated. The Component 3 spearheading the implementation of activity on SLM is sensitizing and taking the participatory action planning to village level.
Have the implementation arrangements at the EE(s) been effective during the reporting period?	Yes
Have any capacity gaps affecting GP compliance been identified during the reporting period and if so, what remediation was implemented?	Yes

Section 4: Grievances

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

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

1. The Grievance Redressal Mechanism for this project was presented and endorsed in the 2nd Project Steering Committee (PSC) held on March 4, 2024. Based on the endorsement, the Grievance Redressal Committee was instituted at the Gewog, Dzongkhag and Central (PSC) Level. 2. No grievance was reported in the first year of implementation.

Rating

Implementing Entity

Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating
Component 1: Adaptive	Outcome 5	*Sensitization and awareness workshops on	Ontrack	Highly

management of watersheds to enhance climate resilience of communities.		<p>adaptive watersheds for the local government leaders, sector heads and project focals for 13 beneficiaries gewog of 3 districts conducted in 2 groups. This included addressing participants requests for further information about the project and its interventions, technical guidance, creating collaboration with technical experts and addressing challenges. The workshop was conducted by the executing entity -Department of Water in collaboration with Project Management Unit. *The consultation and sensitization to the Local Government officials on importance of ecosystem services to protect and conserve watersheds by adopting practices that ensure continuous supply of the services were conducted in two groups attended by more than 80 participants , The participants shared experiences of best resource management practices, financial management and benefits of scaling up PES schemes. They are fully aware of benefits and management of PES</p> <p>*Workshop on water source recharge intervention was held for 6 Gewogs of two Districts with field visit per one site to existing intervention sites using the spring-shed methodology through understanding of hydrology and climate impacts, and prescribing activities such as digging trenches , indentifying protection areas, plantation, soil and land management activities and other bio-engineering activitie were focussed during the training workshop. . *Four watersheds were assessed to indentify potential recharge area and design revival intervention based on watershed conditions and threats of drying up, using technical experts from the Department of Water, Department of Forests and Park Services and project field implementation unit.</p>		Satisfactory
Component 2: Climate resilient water infrastructure for uninterrupted supply of water for drinking and irrigation.	Outcome 4	<p>Contract for construction of 2 climate and disaster-resilient drinking water infrastructure is awarded and construction is ongoing. Regular monitoring by site enginners and contractor is carried on to ensure effective and on time implementation of these big activities. Professional training for eginners and technicians was developed in the center offering best trainig on climate and disaster -resilient drinking water infrastructure and put in use. Capacity building of 32 including 70 % of women enginners undertaken in several domians inculding best practices, concept of adaptation to climate change, through the complete water access cycle -Water source transimission, treatment and distribution. As</p>	Ontrack	Highly Satisfactory

		the project fund is allocated more under this component- the training of enginners and technicans will allow quality implementation and completion of the overall project components. Contract work for the construction of one pressurize/ closed irrigation system and re-engineering/ rehabilitation of two existing irrigation systems awarded to competent contractor and the construction is ongoing. The construction covers 2.6 KM/ 132 acres of the land. The progress as of date is statisficatory and stands ar 39 %. A total of 10.7 KM /65 Acres of Sprinkler & drip irrigation for high value crops such as vegetables and horticulture established and progress achieved is 100 %.		
Component 3: Climate smart agriculture through sustainable land management and informed agro-meterological services.	Outcome 6	Consultation with the Project sites beneficiaries conducted and listed individual SLM action plan. Since the project has already identified SLM technologies for implementation, individual farmers notified to select the best interventions suited for incorporation into the plan. Construction of SLM measures was implemented with 66.8 Ha of land development 30% participation in action planning & 46% for field based specialised training on SLM technologies involving more than 60 % in participation of such traning/reciving technical assistance from the experts.	Ontrack	Highly Satisfactory
Component 4: Improved local governance for effective CCA mainstreaming with focus on water management at the grassroots	Outcome 3	"Sucessfully introduced the concept of Community Engagement Platform for the communities of targeted beneficiaries in all 13 Gewogs in the project sites and have effectively mainstreamed CCA and gender in local annual and LG functionaries. identified communities of 13 project Gewogs have been also trained on CCA investment and mainstreaming tools, frameworks and approaches"	Ontrack	Highly Satisfactory

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

Name	Email
Kinley Tshering	kinley@bhutantrustfund.bt

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

The rating is based on having met the scope of the goals for the first one year of the Project work plan. The project is pioneering, being the first large/regular Adaptation Fund funded project on Climate Change Adaptation in the country. There are insufficient experiences and lessons learnt available at national levels. While this poses a challenge for us in implementing, it ties additional local and national value and recognition to our work. The project through adopting a proactive approach and through active involvement of the targeted vulnerable and local communities of the project pilot sites and relevant stakeholders at local, district and national levels have maintained the progress at a very satisfactory level at all levels. Evident

positive results including employment opportunities for local communities by contributing labor force ultimately benefitting to engage in making decisions of skills required to take project forward have created a very positive reputation for the project and made farmers and officials realize benefits and importance of Adaptation Projects . In many incidences, we had many more beneficiaries than planned and in several cases we had to repeat and or expand/events to accommodate for the unforeseen demands and numbers.

Executing Entity / Project Coordinator

Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating
Outcome 1: Increased watershed and ecosystem resilience in response to climate change and variability-induced stress	Outcome 5	Output 1.1, Activity 1.1.1-sensitization and awareness workshop for the local government leaders, sector heads and project focal of all the 13 beneficiary Gewogs and three Districts conducted in two groups. Output 1.2, Activity 1.2.1- the consultation and sensitization to the Local Government authority conducted in two groups. Output 1.3, Activity 1.3.1-the workshop on water source recharge intervention was held for 6 Gewogs of two Districts with field visit to existing intervention site, and Activity 1.3.2- Four watersheds were assessed to identify potential recharge area and design revival intervention based on watershed conditions.	Ontrack	Satisfactory
Outcome 2: Improved access to irrigation and safe drinking water	Outcome 4	Output 2.1, Activity 2.1.1- the contract for construction of the two climate & disaster-resilient drinking water infrastructure are awarded and the construction is in full-swing. The construction of the 3rd will start in the 1st quarter of year 2, and Activity 2.1.2-the capacity building of 30 engineers and technicians is accomplished with 40% women representation. Output 2.2, Activity 2.2.1, Activity 2.2.2-the construction of one pressurize/ closed irrigation system and re-engineering/ rehabilitation of two existing irrigation systems is awarded for contract and the construction is in full-swing. And, the activity 2.2.3 is accomplished.	Ontrack	Satisfactory
Outcome 3: Improved food security and livelihoods	Outcome 6	"Output 3.1, Activity 3.1.1-the participatory action planning was conducted for two Gewogs (Blocks) for two project districts, Activity 3.1.2- the construction of SLM measures was implemented with 66.8 Ha of land development, Activity 3.1.3-the technical support and assistance was provided to beneficiary communities on SLM measures including a mass land management campaign in Lajab Gewog. Activity 3.1.4- field-based specialized training to on SLM technologies was provided with hands-on practices, and Activity 3.1.5-monitoring and evaluation of	Ontrack	Satisfactory

		the SLM intervention was carried out in the project landscape. Output 3.2, all the activities i.e. Activity 3.2.1, 3.2.2, 3.2.5, except 3.2.3 proposed for the Year 1 was conducted. The activity 3.2.3 on the professional development of the agro-met focal points is pushed for Year 2.		
Outcome 4: Improved CCA mainstreaming and water governance at the local level	Outcome 3	"Output 4.1, Activity 4.1.1- the professional development programme for LGs on CCA investments, mainstreaming tools, frameworks and approaches for Local Leader of 12 Gewogs was conducted with one Gewogs not able to attend. The Activity 4.1.2 Was not conducted due to shortcoming of budget as the proposed budget was utilized for the conduct of Activity 4.1.1"	Ontrack	Satisfactory

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

Name	Email	Institution
Indra Lal Acharja	emailindralal@gmail.com	Department of Water

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 faced slight initial delays in streamlining, as it being a new project, the activities were not already incorporated in the Financial Year 2023-2024, which marks the start of project implementation. All the activities for the Year 1 received supplementary incorporation for the implementation. Since, different Executing Entities and Project Implementing Unit's are implementing different components of the project, the supplementary incorporation varied within and between the implementers resulting in different timeline for implementation. The execution of the construction of the climate resilient water supply for drinking and irrigation schemes were also delayed due to formalities concerning scheme design, drawing, tendering and award of the work. However, almost all the activities proposed for the Year 1 were implemented as per the proposed implementation schedules and are on track. The project workflow for subsequent years is anticipated to be smooth since all the activities are proposed, incorporated and budgeted for the Financial Year 2024-2025 (Year 2) requiring no supplementary incorporation and associated delays in implementation.

Other

Project components/outcomes	Alignment with AF outcomes	Expected Progress	Progress to date	Rating
Outcome 1: Increased watershed and ecosystem resilience in response to climate change and variability-induced stress	Outcome 5	Output 1.1: Activity 1.1.1 Completed sensitization and awareness workshop for 13 Gewogs Output 1.2: Activity 1.2.1 Completed community consultations and sensitization Output 1.3: Activity 1.3.1 Completed conduct of sensitization workshop on water source recharge interventions with field demonstration. Activity 1.3.2 Completed identification of recharge areas and designing water source revival activities following the springshed management for four	Ontrack	Satisfactory

		watersheds in the project landscape.		
Outcome 2: Improved access to irrigation and safe drinking water	Outcome 4	<p>Output 2.1: Climate- and disaster- resilient drinking water infrastructure established.</p> <p>Activity 2.1.1. Construction of WSS from Drakey Pangtsho source to Dopshari, Doteng and Shaba gewogs. Contract Agreement was drawn and work order issued on February 9, 2024. The construction activities are ongoing in full swing and the progress is 12 % as of June 2024. Activity 2.1.2. Construction of WSS from Balakha Source to Tsentog, Lamgong, Lungyni and Wangchang gewog. The design are ongoing and will be completed by July 2024. The construction will start in the Year 2. Activity 2.1.3. Construction of Rural Water Supply Scheme for Phuentenchu and Tsirangtoe gewogs under Tsirang. Contract Agreement was drawn and work order issued on January 22, 2024. The construction activities are ongoing in full swing and the progress is 12.75 % as of June 2024.</p> <p>Activity 2.1.2- Professional Development of engineers in Climate-resilient water supply infrastructure. The target of 30 numbers was accomplished with 40% women participation. The professional development programme also included technicians involved with the project from the project sites. Output 2.2: Climate- and disaster-resilient irrigation infrastructure established</p> <p>Activity 2.2.1. Construction of pressurized/closed irrigation systems (gravity)- Lajab Gewog. The activity is in full swing with an overall physical progress of 66.71% as of June 2024. Activity 2.2.2- Re-engineering/rehabilitation of two existing irrigation schemes. The two irrigation systems are located in Drukjeygang and Tsangkha gewogs. The works have been awarded for contract and the construction is actively ongoing with both schemes at an overall progress of 20% as of June 2024.</p>	Ontrack	Satisfactory
Outcome 3: Improved food security and livelihoods	Outcome 6	"1: SLM action plan developed, 2: Land development on going as per technical specification, 3: Report Submitted as per Annual Workplan. For Output 3.2, except for the professional development of agromet focal, all the other activities proposed was conducted as planned. "	Ontrack	Satisfactory
Please provide the Name and Contact information of the person(s) responsible for completing the Rating section				
Name		Email		
Tshewang Peldon		tpeldon@moit.gov.bt.		

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

Satisfactory- since the identified and planned activities for the year has been fully achieved (100% physical achievement). The sensitisation of Local Government (LG) officials in the watershed management and water source recharge interventions with field demonstration was effective as it was reported in the subsequent monitoring visit that the LG officials shared their enthusiasm and communicate the knowledge gain through the workshop. The activities under Component II, which involve constructing climate-resilient water supply systems for drinking and irrigation, faced initial delays due to unforeseen issues related to additional requirements, procurement processes, and work awards. However, most activities, except for one, have already been implemented and are progressing on track. The delayed activity, which required additional assistance with the watershed assessment for the identified source, is in the final design stage and will be completed by July 2024, allowing construction to start in Year 2. The initial planning phase, which required more time than allocated, caused the project delays. However, once construction begins, physical and financial progress can be achieved with proper monitoring and supervision. With most activities already underway, the project workflow for the following years is expected to be smooth. Regarding the Professional Development of Engineers in Climate-Resilient Infrastructure, the goal of achieving 50% women participation was not met. This was primarily because the majority of personnel involved in the implementation were male professionals who were given priority. Additionally, despite requests for female participants, the target could not be achieved due to the limited number of eligible and relevant female engineers and technicians available in the central agencies and Project Implementation Units. For Output 3.2, the activities were implemented as per the plan and the progress made was satisfactory. However, the requirement of baseline data for this particular Outcome 3, which was initially indicated N/A in the project's result framework was discussed in the last project performance reporting workshop and the baseline data will be recorded and presented in FY 2024-2025 to track the achievement towards the target, that requires - target population report food and income availability improved by 20%-. The breakdown of machine for 3 months deployed for the land development at Balung chiwog, Lajab Gewog had also resulted in reduced work output. The contract work was cancelled and new hiring will be done in this financial year. Due to the rock outcrops and boulders presence in the farm land, the overall work output by machine was hampered. The undulating slopes and presence of past irregular traditional terraces have also hampered in carrying out the land development as per the technical specifications in few sites. The land development interventions were the blessing for the farmers. Now farmers can mechanize the farm, grow multiple crops in a year, irrigate the field in absence of rain, and above all physical land development creates a congenial environment for farmers to work on the farm. The output 3.2 of the AF-assisted project is rated as "Satisfactory" because nearly all planned activities were implemented. However, professional development of the agromet focal of the AF project sites is due to process in the coming year after completing full process. Additionally, the Agromet Decision Support System, a key component for agromet services in Bhutan, experienced delays due to undergoing a system enhancement process. Despite these challenges, the activities were implemented. Starting this FY, we will be targeting sensitization of the rural communities and will also be generating and disseminating tailor made agro-advisories at a regular basis. We have also received approval for the training on agromet services and will be pursuing it this year. Introduced the concept of Community Engagement Platform to the 12 Gewogs except Dopshari in Paro. However the M&E activity could not be carried out due to budget insufficiency. However, the activity will be carried out in the financial year 2024-2025.

Overall Rating

Overall rating

Satisfactory

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

The project faced slight initial delays in streamlining, as it being a new project, the activities were not

already incorporated in the Financial Year 2023-2024, which marks the start of project implementation. All the activities for the Year 1 received supplementary incorporation for the implementation. Since, different Executing Entities and Project Implementing Unit's are implementing different components of the project, the supplementary incorporation varied within and between the implementers resulting in different timelines for implementation. The execution of the construction of the climate resilient water supply for drinking and irrigation schemes were also delayed due to formalities concerning scheme design, drawing, tendering and award of the work. However, almost all the activities proposed for the Year 1 were implemented as per the proposed implementation schedules and are on track. The project workflow for subsequent years is anticipated to be smooth since all the activities are proposed, incorporated and budgeted for the Financial Year 2024-2025 (Year 2) requiring no supplementary incorporation and associated delays in implementation.

Project Indicators

List of indicators

Type of Indicator (indicators towards Objectives, Outcomes, etc...)	Indicator	Baseline	Progress Since Inception	Target for Project End
Objectives	No. of direct beneficiaries	0	The construction of drinking and irrigation water scheme has just started, the actual progress towards the target shall be accounted once the beneficiaries start drawing water from these schemes. *From the sustainable Land Management interventions, a total of 150 HH and 782 individuals benefited directly.	36,464(19,249 male and 17,215 female)
Objectives	No. of indirect beneficiaries	0	The indirect beneficiaries shall be surveyed and reported from Year 2 onwards.	139,661(72,441 male and 67,220 female)
Objectives	Total land area brought under effective management	0	95 Ha (66.8 Ha sustainable land development, 28.2 Ha sustainable land measures), Watershed assessed 6,803.35 Ha	21,252 ha (202 Ha-SLM and 21,049-watershed)
Outcomes	Total land area brought under	0	4 watershed covering 6,803.35	21, 049 Ha

	effective watershed management		Ha is assessed in the project sites in Year 1	
Outputs	No of watersheds intervened	One (Dagana)	4 watersheds assessed. The intervention measures will be implemented in Year 2 onwards based on the condition of watershed assessed.	Watershed management interventions developed and implementations initiated.
Outputs	No of PES Schemes explored and established	One each PES schemes established in Paro and Tsirang	0	One PES scheme will be explored and established if feasible.
Outputs	No of water sources revived	One water source revival site operational in Paro	4 watershed in the project area assessed and recharge area mapped.	Interventions strengthened and adopted for 9 drying water sources.
Outputs	No of significant wetlands inventoried and monitoring system put in place	NA	0	One wetland monitoring system in place
Outcomes	No. of households benefitted with climate resilient 24x7 drinking and irrigation water	NA	0	3168 households (drinking water) 282 households (irrigation)
Outputs	No of climates and disaster resilient drinking water system constructed	NA	0	3 water supply schemes
Outputs	Number of Engineers and technicians trained	0	Total of 32 participants were trained (12 women; 37.50%) This includes: 1. 7 technicians from PIU and Central Agencies. 2. 23 Engineers from PIU and Central Agencies. 3. 1 Project Manager. 4. 1 Project Engineer.	30 Engineers and Technicians (50% women).
Outputs	Number of climate and disaster resilient irrigation scheme constructed	0	0	3 Nos. of irrigation scheme.
Outputs	No. of households with climate-smart irrigation water technology adopted	0	0	65 acres 19 household (65 acres)
Outputs	1.No. of Water User	1.0 2.0 3.11% 4. No	0	1.6 WUAs 2.100%

	Associations formed, trained and formally registered with Gewog Administrations. 2.Proportion of households and local institutions enlisted as members of WUA. 3.Proportion of women WUA office bearers (executives) 4.WUAs are governed by inclusive Articles of association which are available in gewog offices,			3.30% 4. Yes
Outcomes	Percentage of target households with stable and climate resilient livelihood sources.	NA	The baseline survey for this indicator is planned in this FY: 2024-2025.	Target population report food and income availability improved by 20%.
Outputs	Total area brought under SLM practices. Percentage of women participants in participatory action planning and field based specialized training on SLM	NA NA	95 Ha (66.8 Ha sustainable land development, 28.2 Ha sustainable land measures). 30% participation in action planning & 46% for field based specialised training on SLM technologies.	500 Ha 60% women
Outputs	Number of climate products generated "Sensitization of agro-met services in project areas completed-No. of participants"	NA	2 32.7 %(18 F & 37 M)"	Advisories issued on a weekly basis during critical growing periods. At least 50% of the participants are women
Outcomes	Number of LGs effectively mainstreaming CCA and gender in LG plans, programme and activities.	NA	Monitotring of the Gewogs in project sites not conduct and the activity is proposed for Year 2.	All 13 Gewogs in the project sites have effectively mainstreamed CCA and gender in local annual and FYP.
Outputs	Number of LG functionaries and communities trained on CCA investment and mainstreaming tools, frameworks	Basic awareness for CCA and gender mainstreaming exists among LGs but lack tools and training for effective	LG functionaries of the 12 beneficiary Gewogs of the Adapataion Fund Project trained on CCA investment and	LG functionaries including identified communities of 13 project Gewogs have been trained on CCA investment and

	and approaches.	mainstreaming.	mainstreaming tools, frameworks and approaches. One Gewog could not participate.	mainstreaming tools, frameworks and approaches.
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Comments

Lessons Learned

Implementation and Adaptive Management		
Describe any changes undertaken to improve results on the ground or any changes made to project outputs (i.e. changes to project design)	Challenges & Opportunities	None
Have the environmental and social safeguard measures that were taken been effective in avoiding unwanted negative impacts?	Challenges & Opportunities	Strict adherence to project's ESMP and compliance with terms, and conditions of other project related clearances has been effective in avoiding unwanted negative impact during project implementation so far, with exception due to terrain characteristic.
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.	Challenges & Opportunities	1. Local leaders were requested to involve more women to encourage women participation during preparatory and sensitisation meetings. 2. Contractors are made mandatory to maintain labor engagement register. 3. While seeking the nominations from the agencies for the professional development of engineers, women nominations were preferably sought. 4. Keeping records of the activities and gender inclusiveness at all the stages of the project implementation are considered for the reporting. This has helped in accounting the impact level of the project. 5. Women are more cooperative and takes program seriously compared to male youths.
Were there any delays in implementation? If so, include any causes of delays. What measures have been taken to reduce delays?	Challenges & Opportunities	1. Re-engineering/rehabilitation of existing irrigation systems for Tsangkha Gewog experience contractual issue

		<p>which caused work delay: Tendering Process (28-Feb-2024 to 21-Mar-2024), however, one of the contractors submitted Griverance highlighting not getting the contract (Grievance Period :27/03/2024 – 23/05/2024 = 47Days). The DTC resolved the issue but it caused delay in award of work. 2. Construction of WSS from Balakha Source to Tsentog, Lamgong, Lungyni and Wangchang gewog: Concerns were raised about the reliability of the Balakha source and its watershed. The Department of Water was then requested to conduct an assessment of the watershed. Upon completion, the Balakha source was found to be reliable and sustainable for the next 30 years. The report was presented on February 28, 2024 in the presence of officials from DoID, PIU, Local leaders and other relevant stakeholder. To this everyone showcased their support and looked forward to the water supply scheme. 3. Professional Development of Engineers in Climate Resilient Water Infrastructure: The target of 50% women participation was not met. This was primarily because the majority of involved officials are male and it would have been unfair to exclude them, so they were given priority. Additionally, there are comparatively fewer women technical officials in the respective agencies. Despite efforts to encourage women participation, the 50% target was not reached.</p>
What implementation issues/lessons, either positive or negative, affected progress?	Challenges & Opportunities	<p>1. Construction of WSS from Balakha Source to Tsentog, Lamgong, Lungyni and Wangchang gewog: Concerns were raised regarding the reliability and sustainability of source by the Local Government officials. It was</p>

		resolved promptly. 2. Professional Development of Engineers in Climate Resilient water Infrastructure: The target women participation of 50% was not achieved due to less number of officials in technical field as compared to men in general. 3. Organizing chiwog (village) level SLM program encourages and facilitates more women participation. 4. Plantation activities has to done in summer (June & July) which co-incides with financial year closing and paddy transplanting. So, it requires proper planning and time adjustment.
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Has the project already reached mid term or project completion?(yes/no).

No

Climate Resilience Measures	
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?	
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?	
Readiness Interventions (Applicable only to NIEs that received one or more readiness grants)	
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?	
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?	
Concrete Adaptation Interventions	
What have been the lessons learned, both positive and negative, in implementing concrete adaptation	

interventions that would be relevant to the design and implementation of future projects/programmes implementing concrete adaptation interventions?	
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?	
Knowledge Management	
How has existing information/data/knowledge been used to inform project development and implementation? What kinds of information/data/knowledge were used?	
Has the existing information/data/knowledge been made available to relevant stakeholder? If so, what channels of dissemination have been used?	
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.)	
If learning objectives have been established, have they been met? Please describe.	
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.	
Has the identification of learning objectives contributed to the outcomes of the project? In what ways have they contributed?	
Innovation	
Describe any innovative practices or technologies that figured prominently in this project.	
Complementarity/ Coherence with other climate finance sources	
Has the project been scaled-up from any other climate finance? Or has the project build upon any other climate finance initiative?	
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?

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	0	0	0
Baseline information	Indirect beneficiaries supported by the project	0	0	0
Baseline information	Total (direct + indirect beneficiaries)	0	0	0
Target performance at completion	Direct beneficiaries supported by the project	36464	47	18.7
Target performance at completion	Indirect beneficiaries supported by the project	139661	48	12.65
Target performance at completion	Total (direct + indirect beneficiaries)	176125	47.5	15.675
Performance at mid-term	Direct beneficiaries supported by the project			
Performance at mid-term	Indirect beneficiaries supported by the project			
Performance at mid-term	Total (direct + indirect beneficiaries)	0	0	0
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	Hazards information	Overall effectiveness
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		female targeted	generated and disseminated	
Baseline information				
Target performance at completion				
Performance at mid-term				
Performance at completion				

Output 1.1 Risk and vulnerability assessments conducted and updated

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

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

Output 1.2 Targeted population groups covered by adequate risk reduction systems

Core Indicator 1.2: No. of Early Warning Systems

	No. of adopted Early Warning Systems	Category targeted	Hazard	Geographical coverage	Number of municipalities
Baseline information					
Target performance at completion					
Performance at mid-term					
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	Sector	Capacity level
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		female targeted		
Baseline information	0	50	Water management	3: Medium capacity
Target performance at completion	30		Water management	4: High capacity
Performance at mid-term				
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	0	50	Public
Target performance at completion		50	Public
Performance at mid-term			
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	Public	Local	Water management	3: Medium capacity
Target performance at completion	Public	Local	Water management	4: High capacity
Performance at mid-term				
Performance at completion				

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

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

	Number of beneficiaries	Scale	Sector	Capacity Level
Baseline information	0	National	Water management	3: Medium capacity
Target performance at completion	9	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		
Target performance at completion		
Performance at mid-term		
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	0	0	3: Partially aware
Target performance at completion	36464	50	5: Fully aware
Performance at mid-term			
Performance at completion			

Output 3.2: Strengthened 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	0		3: Partially aware
Target performance at completion	6	20% to 39%	5: Fully 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	Training manuals	National
Target performance at completion	1	Training manuals	National
Performance at mid-term			

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	3: Moderately responsive (Some defined elements)
Target performance at completion	Water management	Local	5: Highly responsive (All defined elements)
Performance at mid-term			
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)	3: Moderately improved
Target performance at completion	Water management	2: Physical asset (produced/improved/strengthened)	5: Fully improved
Performance at mid-term			
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	4		Water management
Performance at mid-term			
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	3: Moderately effective	Water management	Water areas
Target performance at completion	5: Very effective	Water management	Water areas
Target performance at completion			
Performance at mid-term			
Performance at completion			

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

Core Indicator 5.1: Natural Assets protected or rehabilitated

	Natural asset or Ecosystem (type)	Total number of natural assets or ecosystems protected/rehabilitated	Unit	Effectiveness of protection/rehabilitation
Baseline information	Catchment area/Watershed/Aquifer	0	ha protected	
Baseline information	Cultivated land/Agricultural land	0	ha rehabilitated	
Target performance at completion	Catchment area/Watershed/Aquifer	21251	ha protected	5: Very effective
Target performance at completion	Cultivated land/Agricultural land	202	ha rehabilitated	
Performance at mid-term				
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	0	0	3: Moderate improvement
Target performance at completion	139661	60	4: High improvement
Performance at mid-term			
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-	Alternate Source
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			vis baseline	
Baseline information	0	60		Agriculture
Target performance at completion	36464	60	From 10% to 20%	Agriculture
Performance at mid-term				
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	0	Adaptation strategies	Agriculture	Supporting livelihoods
Target performance at completion	1	Adaptation strategies	Agriculture	Supporting livelihoods
Performance at mid-term				
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			
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	3: Some
Target performance at completion	5: All (Fully integrated)
Performance at mid-term	
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	0	Water management	National	Water policy
Target performance at completion	1	Water management	National	Water policy
Performance at mid-term				
Performance at completion				

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

	No. of Development strategies	Regulation	Effectiveness
Baseline information	0	3: Partially enforced (Some elements implemented)	3: Moderately effective
Target performance at completion	1	5: Fully enforced (All elements implemented)	5: Very 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

	Sector of innovative practice	Geographic Scale	Type
Baseline information			
Target performance at completion			
Performance at mid-term			
Performance at completion			

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

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

	No. of innovative practices/ tools technologies	Sector	Status	Effectiveness
Baseline information	0	Water management	No innovative practices	3: Moderately effective
Target performance at completion	65	Water management	Completed innovation practices	5: Very effective
Performance at mid-				

term				
Performance at completion				
Indicator 8.2: No. of key findings on effective, efficient adaptation practices, products and technologies generated				
	No. of key findings generated	Type	Effectiveness	
Baseline information				
Target performance at completion				
Performance at mid-term				
Performance at completion				