

United Nations Development Programme

Country: Kyrgyzstan

Project title: Support to collectively respond to the climate emergency and establish resilient development pathways for sustaining human security and green transformation

Sub-title: Reducing Risks and Vulnerabilities from Glacier Lake Outburst Floods (GLOF) and mudslide in Kyrgyzstan through Strengthening the National Disaster Monitoring system and communities' adaptative capacity.

2023-2024 Multiyear Work Plan

Priority area 3: Promotion of inclusive approaches to climate action, disaster risk management and environmental protection to conserve natural resources and leverage ecosystem benefits for sustainable human development

UNDAF Outcome:

Outcome 3: By 2027, the Kyrgyz Republic has started the transition to low-carbon development and risk-informed climate resilience, contributing to people's fair and equitable access to ecosystem benefits and empowerment of vulnerable communities in the governance of natural resources, as well as disaster prevention and response.

Expected CPD Outputs:

Output 3.3: National, institutional, legal, and policy frameworks are in place for risk-informed development and building resilience to disaster and climate risk, including through transboundary cooperation

Implementing agency:

United Nations Development Programme

Implementing partners:

Ministry of Emergency Situations of KR, CESDRR

Brief Description:

. The objective of the project is to improve climate resilience and reduce vulnerabilities associated with GLOFs by improving the national disaster monitoring and forecasting system and communities' adaptative capacity. The objective will be achieved through three outputs 1) Developed a national action plan for the strengthening "Unified Disaster Monitoring and Forecasting System 2023-2027" 2) Strengthened national DRR capacity to manage GLOF risks through updating soft and hardware, accessing satellite data and integrating them into the national disaster monitoring system, as well as, technical knowledge exchanges 3) Strengthened communities' adaptative capacity to the risk of GLOFs and mudslides with a participatory approach. Throughout the project approximately 20,100 people including communities and residents in GLOFs prone areas, staff of The Ministry of Emergency Situation and local authorities expected to benefit from the project directly through community adaptation, mitigation measures and capacity building activities. 1,530,000 people including general public and tourists visiting parks and forests indirectly benefit through early warning and awareness-raising activities.

Programme Period:	2023-2024	Total 2023-2024 MWP Budget	994,810.00 USD
Key Result Area:	Env., CC, DRM	Total budget without LEVY	<u>USD 984,960.00</u>
Atlas Award ID:	00134221	LEVY (1%)	USD 9,850.00
Atlas Project ID:	00147652		
Start Date:	April, 2023	Total resources required:	984,960.00 USD
End Date:	March, 2024	Total allocated resources:	984,960.00 USD
LPAC Date:	N/A		
Management arrangements	DIM		

Approved by UNDP:

Ms. Monica Rijal
Deputy Resident Representative

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Signature:

23-May-2023

Date:

<p>Gender marker - #2</p>	<p>Action 1.3.2: Development of technical specifications that convert the methodology and tools into IT modules and integrate them into the database platform of the existing “Unified System for Comprehensive Monitoring and Forecasting of Emergency Situations (USCMFES)”</p> <p>Action 1.3.3: Development of specification of the software and equipment that is required to collect, process and store data and to operate the modules in the USCMFES web portal. Supervision of the contractor's work and acceptance of completed work</p>														
Total: Output 1										60 000,00 USD	5 000,00 USD				
<p>Project Output 2: Strengthened national DRR capacity to manage GLOF risks through updating and integrating software and hardware with access to satellite data into the national disaster monitoring system and technical knowledge exchanges.</p> <p>Baseline</p> <p>2.1.1 No IT modules</p> <p>2.1.2 No system with GLOF modules</p> <p>2.1.3 “112 Kyrgyzstan” application without GLOF warning</p> <p>2.2.1 No high resolution of satellite images</p> <p>2.2.2 No hardware and software</p> <p>2.2.3 No Digital Elevation Model</p> <p>2.2.4 No disseminated information with partners</p> <p>2.3.1 No knowledge exchange</p> <p>2.3.2 No capacity building training</p> <p>Indicators:</p> <p>2.1.1 # IT modules developed</p> <p>2.1.2 # monitoring and forecasting systems improved by integrating the new IT modules</p> <p>2.1.3 # mobile applications updated with information on glaciers lakes</p> <p>2.2.1 # satellite images procured</p> <p>2.2.2 # hardware and software</p> <p>2.2.3 # Digital Elevation Mode developed</p> <p>2.2.4 # web portals can be accessed by partners</p> <p>2.3.1 # knowledge exchange activities</p> <p>2.3.2 # participants in the training</p> <p>Target</p> <p>2.1.1 two modules</p> <p>2.1.2 one system</p>	<p>Activity Result 2.1</p> <p>Activity 2.1: Develop gender-responsive an algorithm and modules (plug-in) that monitor and forecast GLOFs and mudslides and integrate them into the National Unified System for Comprehensive Monitoring and Forecasting of Emergency Situations (USCMFES)”. </p> <p>Action 2.1.1: Development of the IT modules based on the terms of reference with technical specification developed under action 1.3.2</p> <p>Action 2.1.2: Integrate the IT modules into the database the platform of the existing “Unified System for Comprehensive Monitoring and Forecasting of Emergency Situations (USCMFES)”</p> <p>Action 2.1.3: Update data processing tools and interlink the modules with the crisis management centre’s portal “Automated information management system” and mobile application “112 Kyrgyzstan” to share information of glacier lakes and to send GLOF alert notifications to the public through SMS and the application.</p>		X	X	X	UNDP, MES				HACT/PBP	150 000,00 USD				
Activity Result 2.2:															
	<p>Activity 2.2: Update and procure the hardware and software for data collection, process, and storage, including satellite image access to integrate new modules, satellite data, and 3D maps into the national disaster monitoring and forecasting system based on the specification of the equipment under action 1.3.3</p> <p>Action 2.2.1: Procure satellite images (e.g., JAXA) including optical and radar images</p> <p>Action 2.2.2: Procure the hardware and software for data collection, process, visualization and storage, including plane-type UAV with LiDAR</p> <p>Action 2.2.3: Generate DEM (Digital Elevation Model) for modeling the target area and identify potential hazardous glacier lakes</p>		X	X	X	UNDP, MES				HACT/PBP	257 529,00 USD				

<p>2.1.3 one application 2.2.1 one set of satellite images 2.2.2 one set of hardware and software 2.2.3 one Digital Elevation Model developed 2.2.4 two web portals 2.3.1 at least 1 knowledge exchange activity 2.3.2 at least 20 participants</p> <p>Gender marker - #2</p>	<p>Action 2.2.3: Share the data and satellite images with all relevant agencies and national partners via the public portal of Unified System for Comprehensive Monitoring and Forecasting of Emergency Situations</p>											
	<p>Activity Result: 2.3</p>											
	<p>Activity: 2.3 Establish a partnership of technical cooperation between national partners and specialized agencies for GLOFs management and conduct capacity-building training and knowledge exchange workshops to take stock of available knowledge on GLOFs and mudslides.</p> <p>Action 2.2.1: Conduct knowledge exchange workshops and study visits in partnership with Japanese institutions and UNDP country offices. Action 2.2.2: Conduct capacity building training of national responsible authority on modelling and satellite data process, analysis for GLOFs monitoring.</p>		X	X			UNDP, MES, CESDRR	HACT, Training costs, goods and services	15 000,00 USD	35 000,00 USD		
Total: Output 2									422 529,00 USD	35 000,00 USD		
<p>Output 3. Strengthened communities' adaptive capacity to the risk of GLOFs and mudslides through a participatory approach:</p> <p>Baseline 3.1.1 No monitoring group established 3.1.2 No trained and equipped groups 3.1.3 No finding sharings 3.1.4 No local disaster risk reduction plans 3.2.1 No adaptation and mitigation measures identified 3.2.2 No mitigation and adaptation measures implemented 3.3.1 No drills conducted 3.3.2 No awareness raising activities</p> <p>Indicator 3.1.1 # monitoring group established 3.1.2 # trained and equipped groups 3.1.3 # information sharing sessions 3.1.4 # local DRR plans 3.2.1 # adaptation and mitigation measures identified 3.2.2 # mitigation and adaptation measures implemented 3.3.1 # drills conducted 3.3.2 # people received messages on GLOFs</p>	<p>Activity Result 3.1</p>											
	<p>Activity 3.1: Form environmental monitoring groups in the target communities and provide training to groups on the impact of climate change, DRR, and environmental monitoring tools with consideration gender</p> <p>Action 3.1.1: Form an environmental monitoring group and provide equipment that will need to use as part of their role. Action 3.1.2: Develop training materials and provide training to the group on the impact of climate change, safety behaviour, first aid, simulation, and environmental monitoring tools, etc.</p>	X	X				UNDP, MES, LSG	HACT	40 000,00 USD			
	<p>Activity Result 3.2</p>											
	<p>Activity 3.2: Develop gender responsive local disaster risk reduction plans including mitigation, adaptation measures, and an early warning communication network between communities and local/central government.</p> <p>Action 3.2.1: Analyse results of vulnerability assessment under Action 1.2.2 and present the assessment result and consult with local authorities and community stakeholders for awareness and feedback. Action 3.2.2: Develop a local disaster risk reduction plan and a communication mechanism between communities and local/central government to be tested for GLOFs drills.</p>		X	X				HACT	20 000,00 USD			
<p>Activity Result 3.3:</p>												

Target 3.1.1 three group established 3.1.2 at least 30 people trained and equipped 3.1.3 three information sharing sessions 3.1.4 three 3 local DRR plans 3.2.1 at least 3 adoption and mitigation measures 3.2.2 at least 3 mitigation and adoption measures 3.3.1 at least 3 drills 3.3.2 at least 10,000 people received the messages on GLOFs Gender marker - #2	Activity 3.3: Conduct public work for GLOF risk reduction and adaptation measures assessed under Action 1.2.2. (e.g. as tree plantation to stabilize slopes, reduce bank erosion, and set up a community early warning system). Action 3.3.1: Prioritize and select the most appropriate GLOF risk reduction and adaptation measures in the target communities in line with the disaster risk reduction plan and results of vulnerability assessment under Action 1.2.2. Action 3.3.2: Implement selected mitigation and adaptation measures with additional capacity development training and equipment for local communities and authorities.			X	X			HACT, goods and services	200 000,00 USD		
	Activity Result 3.4:										
	Activity Result 3.4: Carry out gender sensitive awareness-raising activities and GLOFs drills for communities and tourists in the target communities including posters and brochures, SMS, radio programmes, and local TV and newspaper articles. Action 3.4.1: Develop GLOF drill manual and conduct GLOF drills. Action 3.4.2: Develop and disseminate materials for awareness-raising and implement awareness-raising activities.		X	X	X			HACT, goods and services	15 000,00 USD	15 000,00 USD	
Total: Output 3									275 000,00 USD	15 000,00 USD	
Project management	Personnel cost	X	X	X	X	UNDP	JSB		64 500,00 USD	21 500,00 USD	
	Administrative cost	X	X	X	X				10 000,00 USD	3 471,00 USD	
PROJECT MANAGEMENT TOTAL:		X	X	X	X				74 500,00 USD	24 971,00 USD	
Project implementation total including project management									832 029,00 USD	79 971,00 USD	
Management costs						UNDP			66 562,32 USD	6 397,68 USD	
Total: Programme Outputs, Project Management and GMS		X	X	X	X			898 591,32 USD	86 368,68 USD		
Levy 1%		X				UNDP		9 850,00 USD			
PROJECT GRAND TOTAL								908 441,32 USD	86 368,68 USD		
									994 810,00 USD		

Acronyms:	
GLOF	Glacier Lake Outburst Floods
USCMFES	Unified System for Comprehensive Monitoring and Forecasting of Emergency Situations
DRR	Disaster risk reduction
DEM	Digital Elevation Model
UAV	Unmanned aerial vehicle
LIDAR	Light Detection and Ranging

Gender Action Plan

Duration of the work plan: April 2023 – March 2024

Project title: Support to collectively respond to the climate emergency and establish resilient development pathways for sustaining human security and green transformation

Project ID: 00134221

KEY ACTIVITIES PLANNED	TIMEFRAME (QUARTER)				Indicator	PLANNED BUDGET	
	2023			2024		Funding source	Amount (USD)
	Q1	Q2	Q3	Q4			
Capacity-building activities, which includes gender dimension (integration of gender perspectives in the TORs, reports and indicators, the inclusion of gender sessions in the agenda, gender balance in the composition of participants, etc.)						440,000.00	
Activity Result 1.1 Action 1.1.1: Assessment of the technical potential of the national “Unified System for Comprehensive Monitoring and Forecasting of Emergency Situations (USCMFES)” Action 1.1.2: Development of a national action plan for the strengthening “Unified monitoring and forecasting system 2023-2027”						Technical assessment with gender considerations. National action plan will consider gender considerations and gender mainstreamed	20,000.00
Activity Result 3.1: Form environmental monitoring groups in the target communities and provide training to groups on the impact of climate change, DRR, and environmental monitoring tools with consideration gender .	X				At least 50% of the monitoring group will be composed of women and populations vulnerable to disasters	JSB	40,000.00
Activity Result 3.2: Develop gender responsive local disaster risk reduction plans including mitigation, adaptation measures, and an early warning communication network between communities and local/central government.	X	X			100% of the plan's activities will be aimed at strengthening the resilience of vulnerable populations to disasters, including women, children and other gender groups in line with gender responsive local disaster risk reduction plans	JSB	20,000.00
Activity Result 3.3: Conduct public work for GLOF risk reduction and adaptation measures assessed under Action 1.2.2. (e.g. as tree plantation to stabilize slopes, reduce bank erosion, and set up a community early warning system).		X	X	X	100% of the beneficiaries of disaster risk reduction measures are vulnerable to disasters, including women, children and other gender groups	JSB	200,000.00

2023-2024 Communications Plan for Project ID 00134221

#	Activity	What	Who	When	Target audiences	Resources	Product (evaluation criteria)
1	Activity Result 3.4: Carry out gender sensitive awareness-raising activities and GLOFs drills for communities and tourists in the target communities including posters and brochures, SMS, radio programmes, and local TV and newspaper articles.	<ol style="list-style-type: none"> 1. Regular update and media coverage of the events on UNDP website (0 USD) 2. Publishing of the GLOF drill manual (500.00 USD) 3. Video on the project outcomes (3,000.00 USD) 	Project staff, press-service of MES	Q2-Q4	Governmental agencies, target communities	3,500.00 USD	<ol style="list-style-type: none"> 1. Media monitoring of the project activities and 2 press releases on UNDP website and social media channels 2. Printed materials (manuals) 3. Video material
3	Activity: 2.3 Establish a partnership of technical cooperation between national partners and specialized agencies for GLOFs management and conduct capacity-building training and knowledge exchange workshops to take stock of available knowledge on GLOFs and mudslides.	<ol style="list-style-type: none"> 1. Regular updates and media coverage of the events on the UNDP website (0 USD) 2. Reporting video and photos (1,000.00 USD) 	Project staff, press-service of MES	Q2-Q4	Governmental agencies, target communities	1,000.00 USD	<ol style="list-style-type: none"> 1. Media monitoring of the project activities and 2 press releases on the UNDP website and social media channels. 2. Video and photo materials to be posted on the UNDP website and YouTube channels
Total						4,500.00 USD	
Projects total budget						994,810.00 USD	0
Expected rate of monitoring expenses						0.45%	

Monitoring Schedule Plan for Project ID 00134221

Project titles and IDs	Monitoring Action <small>(indicate which one: annual review, annual workplan, audit, monitoring visit, donor report, evaluation, workshop, special publication, etc)</small>	Due date	Budget	Description <small>(description of the purpose of monitoring action)</small>	Comments <small>(provide further details and update about the status)</small>	Date completed <small>(actual completion date)</small>	Responsibility <small>(name of the person responsible for the action)</small>
	Donor reports/Quarterly and annual reports	Q2 2023 - Q1 2024	N/A	To report on progress made	Reports will be provided	Q2 2023 - Q1 2024	DRMP Staff, CO Programme Analyst, DRR Officer /Programme Associatee
	AWP development	Q2	N/A	Review of project progress, planning of activities	AWP development	Q2	DRMP Staff, CO Programme Analyst, DRR Officer /Programme Associatee
	Project management reporting in Atlas (review risks, issues)	Quarterly	N/A	To update and monitor the risks and issues	Reporting in Atlas will be provided	Q2 2023 - Q1 2024	DRMP Staff, CO Programme Analyst, DRR Officer /Programme Associatee
	Project Quality Assurance on design stage	Annually	N/A	Regular monitoring of achievement of goals and objectives of activities	N/A	Q2 2023	DRMP Staff, CO Programme Analyst, DRR Officer /Programme Associatee
	Weekly programme meetings with SM	Weekly	N/A	Informing SM on the progress of the project, planning of priority actions	N/A	Q2 2023 - Q1 2024	DRMP Staff, CO Programme Analyst, DRR Officer /Programme Associatee
	Programme and Delivery meetings	Weekly	N/A	Informing SM on the progress of the project, planning of priority actions	N/A	Q2 2023 - Q1 2024	DRMP Staff, CO Programme Analyst, DRR Officer /Programme Associatee
	Monitoring visits to project sites	Monthly	3000	Monitoring of activities and informing SM on the progress of the project	BTOR	Q2 2023 - Q1 2024	DRMP Staff, CO Programme Analyst, DRR Officer /Programme Associatee
Subtotal:			3,000.00 USD				
Projects total budget			994,810.00				
Expected rate of monitoring expenses			0.30%				

Offline Risk Log for 2023 (PID 00134221)

[\(see Deliverables Description for the Risk Log regarding its purpose and use\)](#)

#	Description	Date Identified	Type	Impact & Probability	Countermeasures / Mngt response	Owner	Submitted, updated by	Last Update	Status
1	Change in the structure of Government and focal points in MoES	April 2023	Organizational	Probability = 4 Impact = 4	To close work with national partners and conduct meetings regularly to monitor any structural changes in the ministries.	Programme staff	Programme staff		Unpredictable
2	Destructive natural disasters in the pilot regions	April 2023	Environmental	P = 3 I = 5	Re-Assess stability of the project sites. Creating nationally-owned Recovery structures and strengthening capacities.	Programme staff	Programme staff		Unpredictable
3	Marker inflation in IT equipment and software	April 2023	Financial	P = 2 I = 5	monitor the situation of market	Programme staff	Programme staff		Cost of the equipment has been increased

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Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp
Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	05/19/2023 17:49
Certified Delivered	Security Checked	05/23/2023 13:29
Signing Complete	Security Checked	05/23/2023 13:29
Completed	Security Checked	05/23/2023 13:29
Payment Events	Status	Timestamps