

General Template of the Annual Performance Report (APR)

Reference Number (FP#SAP022): Enhancing Multi-Hazard Early Warning System to increase resilience of Uzbekistan communities to climate change-induced hazards

*Annual Reporting Period Covered in this Report:
(From 01-01-2022 to 31-12-2022)*

Sections in this report:

- Section 1: General Information
- Section 2: Implementation Progress
- Section 3: [Financial Information¹ \(Excel worksheet attached\)](#).
- Section 4: Report on Environmental and Social Safeguards & Gender
- Section 5: Annexes
- Section 6: Attachments

SUBMITTED BY	
<i>Benjamin Larroquette, Technical Specialist on CCA to support UNDP- GEF</i>	<i>6 January 2023</i>
<i>Please indicate if this report has been shared with the relevant NDA(s) for this Funded Activity (Yes/No)</i>	<i>Date of submission to NDA: 1 March 2023</i>

¹ Please refer to excel worksheet attached "APR Section 3 (Financial Information)". Provide as attachments to this report any detailed additional financial information if required in the Funded Activity Agreement.

SECTION 1: GENERAL INFORMATION

This section provides general information on the funded activity.

1. Funded Activity Title:	<i>Automated input by PPMS</i>
2. Funding Proposal Number:	<i>Automated input by PPMS</i>
3. Date of Board approval - Board Meeting Number:	<i>Automated input by PPMS</i>
4. Focal Point of the Accredited Entity for this Project:	<i>Benjamin Larroquette, benjamin.larroquette@undp.org</i>
5. Executing Entity(ies):	<i>Ministry of Emergency Situations of the Republic of Uzbekistan</i>
6. Implementation Period:	<i>From: 7/19/2021 To: 7/19/2027</i>
7. Current year of Implementation:	<i>Year 2</i>
8. Annual Reporting period covered in this report:	<i>From: 1/1/2022 To: 12/31/2022</i>
9. Total Project Budget ² :	<i>Automated input by PPMS</i>
10. Total amount of GCF Proceeds Approved:	<i>Automated input by PPMS</i>
11. Total amount of GCF Proceeds disbursed (cumulative) to the Accredited Entity:	<i>Automated input by PPMS</i>

² Total project budget including co-financing as reflected in the relevant Funded Activity Agreement.

SECTION 2: IMPLEMENTATION PROGRESS

2.1 OVERALL (SUMMARY) PROJECT PROGRESS (*less than one (1) page*³).

Provide a narrative report describing the overall progress on the implementation of the funded activity, focusing on implementation achievements, delays and challenges according to the planned activities. As relevant, include references to other sections of this report (including Annexes or Attachments).

Include a description of key milestones of the funded activity achieved during this reporting period including any deviations from original expectations. Also, describe challenges encountered and actions undertaken to resolve these challenges, and lessons learned during the implementation, including issues related to non-compliance with GCF standards or conditions, if any. In parallel, include positive achievements and better-than-expected results.

If any issues have arisen in the last twelve (12) months of implementation that may result in a change to the scope and/or timing of the project, please provide a description of those items and how they have impacted the implementation period and final targets.

Following the decision of the Inception Workshop meeting held on 11 January 2022, Uzhydromet allocated an office space for the project in its premises. The key personnel (PM, TM on Climate Risks Issues and AFA) of the project assumed their duties in March 2022, while the rest of team has been formed by June 2022.

In addition, as per recommendation of the National Project Coordinator (NPC) of MES during the Inception Meeting, the project in consultation with MES and Uzhydromet revisited the proposed project pilot areas and prepared an updated list of 15 districts with 44 target communities for project intervention, which was agreed and endorsed during the first virtual meeting of the Project Board held on 10 October 2022.

Furthermore, the project as per decision of the Inception Workshop meeting has procured a project vehicle, four-wheel drive Toyota Rav-4, to ensure safe travels to project sites and communities located in hazard prone areas. The procurement of the project vehicle has been discussed and agreed with RTA, IRH and CO senior management.

Due to delays with start of actual implementation of activities, the project had to adjust the Annual Work Plan (AWP) and budget for 2022 and introduce some corrections to the plan and activities planned originally for 2022. Most major activities planned for the current year were successfully implemented by the project, although there were some minor delays and some were switched to 2023, due to long term procurement processes or activities required close engagement and consultations with national partners and stakeholders.

2.1.1 Overall Progress Achieved Since Project Start

On 3 August 2022, the project conducted an informational seminar in Tashkent to present project's goal and objectives, as well as intended results to representatives of MES, Uzhydromet, national ministries and organizations. The similar events were held separately in each 7 regions, during 9-17 August 2022, where representatives of regional hokimiyats, local organizations, NGO, communities and mass media took part in these events.

³ Please remove text below to fit report to one page. Additional reports can be provided as other attachment to the APR.

Within the framework of Component 1, the project in consultation with experts of Uzhydromet procured 25 automated meteorological stations for modernization of the national meteorological observation network. Plus, an assessment to identify the current conditions of 90 water gauge stations of Uzhydromet was conducted and recommendations and technical specifications of the hydrological equipment required for modernization of hydrological observation network were developed.

More than 540 people (134 women) improved their knowledge on climate change, early warning systems, MITRA and UniMas meteorological complexes, gender equality and climate services organized by the project for representatives of MES, Uzhydromet, national and regional organizations, NGOs and target communities.

Area-specific mobile and SMS application has been developed by the IT company to deliver early warnings and information on mudflows, avalanches, landslides, and flooding risks to end-users living in disaster prone areas, including a new website of the Ministry of Emergency Situations, which is going to be finalized after its population with required information by MES.

The project with the assistance of international and national experts conducted a preliminary baseline analysis and identification of priority areas for the preparation of the National Framework for Climate Services. The project held a Roundtable meeting on 24 November 2022 to discuss the demand and needs for NFCS, designing process and related actions, and next steps for launching development process together with representatives of Uzhydromet, MES, respective ministries and organizations.

Furthermore, the project held its first virtual PB meeting on 10 October 2022 and regular Project Board meeting on 13 December 2022, where members of the Board from UNDP, MES, Uzhydromet, ministries and agencies discussed the results achieved by the project within its initial year of implementation and planned activities for 2023.

2.1.2 Progress Achieved in 2022

Since the actual implementation of project activities started in 2022, the information provided in section 2.1.1 summarizes the achievements completed in 2022.

2.1.3 Update on Project Risks

The government of Uzbekistan is planning to initiate serious structural changes among national ministries and agencies, including the Presidential Administration. According to the Presidential Decree #269 dated by 21 December 2022, the Center of Hydrometeorological Services will merge with the State Committee for Ecology and Environmental Protection and form a new Ministry of Natural Resources of the Republic of Uzbekistan in 2023. These structural changes may delay some project activities related to modernization of observation systems and capacity building of Uzhydromet. UNDP CO will closely monitor and follow up with senior management of the newly established ministry to ensure smooth implementation of planned project activities.

2.2 Performance against the GCF Investment Criteria (summary) (max two (2) pages).

Provide a narrative report describing the progress on the funded activity's performance against [the GCF investment criteria framework](#). The performance should be compared against the initial assessment provided in the Board-approved Funding Proposal (section E). The list of the investment criteria as per the current framework is provided below.

Although the project initiated and achieved most of planned results for 2022 (please refer to section 2.1 and section 2.3), it is still at the initial stage of its implementation. Thus, it is early to accurately assess the performance of the project against the GCF Investment Criteria.

2.2.1 Impact Potential (max one (1) page).

Since the project is still at the initial stage of its implementation, it is early to accurately assess the Impact Potential of the project at this moment.

2.2.2 Paradigm shift potential (max one (1) page).

Since the project is still at the initial stage of its implementation, it is early to accurately assess the Paradigm Shift Potential of the project at this moment.

2.2.3 Sustainable development potential (max one (1) page).

Since the project is still at the initial stage of its implementation, it is early to accurately assess the Sustainable Development Potential of the project at this moment.

2.2.4 Needs of the recipient (max one (1) page).

Since the project is still at the initial stage of its implementation, it is early to accurately assess the performance of the project against the investment criteria "Needs of the recipient" at this moment.

2.2.5 Country Ownership (max one (1) page).

Since the project is still at the initial stage of its implementation, it is early to accurately assess the performance of the project against the investment criteria "Country Ownership" at this moment.

2.2.6 Efficiency and Effectiveness (max one (1) page).

Since the project is still at the initial stage of its implementation, it is early to accurately assess the performance of the project against the investment criteria "Efficiency and Effectiveness" at this moment. The benefit of the project is assumed to be zero in the first three years. This is required to allow the project to install the planned different climate information systems, modelling and ground truthing of the data, including setting up communication systems in RCMCs and visualization systems at the community levels.

2.3 PROJECT OUTPUTS IMPLEMENTATION STATUS ⁴			
Project Output	Project Activity	Status ⁵	Implementation progress ⁶ (%)
Output 1: Upgraded hydro-meteorological observation network, modelling and forecasting capacities	Project Activity 1.1 Upgrading and modernization of the meteorological and hydrological observation system	Activity Started - ahead of schedule	30%
	<p><i>Provide an updated progress on this project activity for the relevant reporting period, including delays and issues encountered, key milestones reached, and lessons learned, including issues related to non-compliance with GCF standards or conditions, vis-à-vis expectations, if any. In parallel, include positive achievements and better-than-expected results.</i></p> <ol style="list-style-type: none"> The project, in consultation with specialists of Uzhydromet, developed technical specifications for automated meteorological stations to be procured for modernization of observation network of Uzhydromet. Open international tender has been announced by the project for supply of 25 AWS together with a set of IT equipment for each station. As a result, 25 automatic hydrometeorological stations (MicroStep-MIS) were procured for a total amount of USD 547,029 and delivered to Tashkent for further installation in pre-selected places in 2023 together with specialists of Uzhydromet. The project conducted an assessment to identify the current conditions of 90 water gauge stations of Uzhydromet. Based on results of the assessment, the recommendations and technical specifications of the hydrological equipment required for modernization of hydrological observation network have been developed. With assistance of 2 international experts engaged by the project the current condition of the existing Uzhydromet's atmospheric radar sounding network has been assessed and recommendations developed on inputs and actions required for restoring/reviving the functionality of existing C-band radars. 	<p><i>Please include a list of key milestones and deliverables expected to be executed in the next reporting period.</i></p> <ol style="list-style-type: none"> Installation of 25 AWS in pre-selected sites together with specialists of Uzhydromet. Finalization of technical specifications, launching the tender process, procurement and installation of the equipment for existing hydrological stations and posts of Uzhydromet. Development of technical specifications, launching the tender process, and procurement of the metrological laboratory equipment for verification of hydrometeorological instruments and sensors. Recruitment of international experts to resume full functionality of the existing C-band radar (Selex) in Samarkand. 	
	Activity 1.2 Upgrading Uzhydromet capacity to store, process and develop hazard products, as well as to communicate hydrometeorological data to regional divisions	Activity Started - progress on	15%

⁴ Outputs and Activities reported here should be aligned with the Activities in the Logic Framework and Implementation Timetable of the project.

⁵ Activity Not Yet Due; Activity Started -ahead of schedule; Activity started – progress on track; Activity started but progress delayed; Activity start is delayed.

⁶ Implementation progress on a cumulative basis as of the date of the report.

		track	
<p><i>Provide an updated progress on this project activity for the relevant reporting period, including delays and issues encountered, key milestones reached, and lessons learned, including issues related to non-compliance with GCF standards or conditions, vis-à-vis expectations, if any. In parallel, include positive achievements and better-than-expected results.</i></p> <ol style="list-style-type: none">1. The project together with experts of Uzhydromet developed draft technical specifications for the server hardware and storage device, which will be further consulted and finalized with technical national and international experts (FMI, WMO). The project is currently discussing and seeking an opportunity for cooperation with the joint project of Uzhydromet and Finnish Meteorological Institute (FMI) to ensure synergy and avoid overlapping of activities.2. The assessment of the current situations in snow avalanche prone areas has been conducted and draft TOR for snow avalanche mapping model has been developed by the international expert on avalanches engaged by the project.3. The assessment of the current situations in mudflow and flash-flood prone areas has been conducted and draft TOR for mudflow/flash-flood mapping model has been developed by the international expert on mudflows and flash-floods.	<p><i>Please include a list of key milestones and deliverables expected to be executed in the next reporting period.</i></p> <ol style="list-style-type: none">1. Finalization of technical specifications, launching the tender process, procurement and installation of the IT equipment for establishing hydrometeorological data center.2. Preparation of initial data and procedures for assessing the intensity of precipitation and other variables used in assessing risks of landslides, snow avalanches, mudflow and flash-flood using the data from observation networks of Uzhydromet.3. Adaptation of the Drought Early Warning System (DEWS) developed for the lower reaches of the Amu Darya to the conditions of the lower reaches of Zarafshan and Syrdarya rivers.		
Activity 1.3 Re-training and advanced training of Uzhydromet staff on monitoring and forecasting technologies and procedures	Activity Started - progress delayed	15%	
<p><i>Provide an updated progress on this project activity for the relevant reporting period, including delays and issues encountered, key milestones reached, and lessons learned, including issues related to non-compliance with GCF standards or conditions, vis-à-vis expectations, if any. In parallel, include positive achievements and better-than-expected results.</i></p> <ol style="list-style-type: none">1. 16 experts (9 men and 7 women) of Uzhydromet increased their knowledge and skills on UNIMAS and MITRA communications systems during 5 days thematic trainings conducted by 2 international experts.2. The project is recruiting an international expert on metrology to improve knowledge and skills of Uzhydromet experts on calibration laboratories of hydrometeorological sensors and their functionality.3. The project announced RFP among national organizations twice, which yielded no positive results, due to a) proposed commercial offers exceeded the available budget, and b) conflict of	<p><i>Please include a list of key milestones and deliverables expected to be executed in the next reporting period.</i></p> <ol style="list-style-type: none">1. Finalize the needs assessment and develop a training plan for capacity building of specialists of Uzhydromet.2. Conduct training on COSMO for specialists of Uzhydromet on national and regional levels.3. Conduct thematic trainings for specialists of Uzhydromet based on results of needs assessment.		

	interests of one of the bidder-participants with the recipient of the services (Research Institute under the Uzhydromet). Therefore, the project is recruiting a national expert to assess the needs of Uzhydromet and develop recommendations for building capacity of experts of Uzhydromet on national and regional levels. Based on the recommendations and developed a training plan, the project will engage national and international experts/organizations on thematic topics.		
Output 2: A functional impact-based Multi-Hazard Early Warning System is established based on innovative impact modelling, risk analyses, effective regional communication and community awareness	Activity 2.1 Developing and installing a modernised and efficient system for assessing climate risks based on dynamic information on both hazards and vulnerabilities, including socio-economic risk models for decision making and prioritization of resilience-building long-term/future investments	Activity Not Yet Due	0%
	<p><i>Provide an updated progress on this project activity for the relevant reporting period, including delays and issues encountered, key milestones reached, and lessons learned, including issues related to non-compliance with GCF standards or conditions, vis-à-vis expectations, if any. In parallel, include positive achievements and better-than-expected results.</i></p> <p>1. This activity has not yet started in the reporting period and will be initiated in 2023 in accordance with the Timetable of project implementation.</p>	<p><i>Please include a list of key milestones and deliverables expected to be executed in the next reporting period.</i></p> <ol style="list-style-type: none"> 1. Recruitment of international and national experts to conduct climate risk assessment and provide guidance on integration of information on different hazards and sources of vulnerability. 2. Development of technical specifications for the MHEWS software and hardware. 	
	Activity 2.2 Developing and introducing technical guidance, institutional and coordination frameworks	Activity Started - progress on track	5%
	<p><i>Provide an updated progress on this project activity for the relevant reporting period, including delays and issues encountered, key milestones reached, and lessons learned, including issues related to non-compliance with GCF standards or conditions, vis-à-vis expectations, if any. In parallel, include positive achievements and better-than-expected results.</i></p> <p>1. The terms of reference for development of the national standard of the Republic of Uzbekistan on the system of warning and informing the population about threats or emergencies have been prepared in consultation with experts of MES.</p>	<p><i>Please include a list of key milestones and deliverables expected to be executed in the next reporting period.</i></p> <ol style="list-style-type: none"> 1. Launching the tender process, contracting and completion of the development of the national standard on the system of warning and informing the population about threats or emergencies. 2. Recruitment of the national expert to design and conduct institutional survey for assessing the level of coordination within MHEWS. 	

Output 3: Strengthened climate services and disaster communication to end- users	Activity 2.3 Designing and implementing a system for information dissemination to RCMCs and area-specific mobile alerts including an information visualization system for RCMCs with software		<i>Activity Started - ahead of schedule</i>	20%
	1. A draft of technical specifications for the RCMCs data visualization system (video walls, telecommunication systems, servers and ICT storage) have been developed in consultation with experts of MES. 2. Area-specific mobile application has been developed by the IT company to deliver early warnings and information on mudflows, avalanches, landslides, and flooding risks to end-users living in disaster prone areas, including a new website of the Ministry of Emergency Situations, which is going to be finalized after its population with required information by MES.	1. Procurement and installation of data visualization system (video walls, telecommunication systems, servers and ICT storage) for 7 RCMCs. 2. Training of specialists of MES and RCMCs on usage of data visualization system and information exchange. 3. Finalization of the area-specific mobile application and placing it on Play Store (Android devices) and Apple Store (iOS devices) for downloading and usage by the population. 4. Finalization of revision of the website of MES and integration with a mobile application through a single platform for information and warnings dissemination among population.		
	Activity 3.1 Establishing National Framework for Climate Services for Uzbekistan		<i>Activity Started - progress on track</i>	15%
	<i>Provide an updated progress on this project activity for the relevant reporting period, including delays and issues encountered, key milestones reached, and lessons learned, including issues related to non-compliance with GCF standards or conditions, vis-à-vis expectations, if any. In parallel, include positive achievements and better-than-expected results.</i> 1. Preliminary baseline analysis was carried out and priority areas for the preparation of the National Framework for Climate Services were identified. The project conducted a Roundtable meeting on 24 November 2022 together with a team of international and national experts, representatives of Uzhydromet, MES, respective ministries and organizations to discuss the demand and needs for NFCS, designing process and related actions, and next steps for launching development process.	<i>Please include a list of key milestones and deliverables expected to be executed in the next reporting period.</i> 1. Engage a team of national and international experts to develop a draft NFCS concept and Action Plan. 2. Conduct a roundtable meeting to present and discuss the NFCS Concept and Action Plan with national stakeholders.		
	Activity 3.2 Designing a sustainable business model for disaster-related information and services		<i>Activity Not Yet Due</i>	0%

	1. This activity has not yet started in the reporting period and will be initiated in 2023 in accordance with the Timetable of project implementation.	1. Conduct a feasibility analysis for a sustainable business model for disaster-related information and services of Uzhydromet.
	Activity 3.3 Strengthening disaster warning dissemination and communication with end-users.	<div>Activity Started - progress on track</div> <div>10%</div>
	<ol style="list-style-type: none"> 1. A draft of technical specifications for outdoor information boards have been developed in consultation with experts of MES. 2. More than 200 people from vulnerable communities improved their knowledge on interpretation and use of information on climate hazards and early warning alerts through thematic seminars organized in 15 target districts. 3. Vulnerability assessment of communities to the risks of climate change has been designed and conducted in 8 target communities located in 2 districts of Fergana and Namangan regions. 4. The Gender Action Plan of the project has been reviewed and recommendations provided by an international gender specialist on mainstreaming and inclusion of gender aspects to project activities. 5. 42 people (13 men and 29 women) from national partners and project personnel increased their knowledge on gender mainstreaming and gender equality in the context of climate change. 6. On 13 October 2022, in cooperation with MES and local community leaders of Kamchik Pass, an International Day for Disaster Risk Reduction (IDDRR) was celebrated with local community children at School No. 44, located in the most disaster-prone area of Pop district in Namangan region. Besides of open lessons on climate induced hazards and quizzes, the schoolchildren were demonstrated the process of evacuation from the building after receiving an alarm signal by MES specialists, including machinery and equipment used during the emergency. 7. 4 infographics on mudflows, floods, avalanches and landslides have been developed and distributed among target audience during seminars and events organized by the project in 7 pilot regions. 8. 4 short videos about four major climate risks (mudflows, floods, avalanches and landslides) and actions to be taken by the population have been produced in Uzbek, Russian and English with sign language translation for broadcasting via national TV and outdoor/indoor information boards located in disaster prone areas of the country. 	<ol style="list-style-type: none"> 1. Conduct vulnerability assessment in the remaining 36 target communities of 5 regions. 2. Procurement and installation of 11 outdoor information boards in selected target districts of the project. 3. Conduct thematic trainings and workshops on EWS and DRR, first aid, gender equality, etc. for members of target communities and local partners. 4. Produce a short video on area-specific mobile application developed within Activity 2.3 for promotion and ensuring a wide usage by the population, especially by those living in disaster prone areas. 5. Consultation meetings with MES and Uzhydromet to agree the Grievance Redress Mechanism structure, duties of members and assigning focal points from each party. 6. Conduct consultation meetings with representatives of local government and communities for discussion and establishing transparent GRM in target communities.

	9. The Monitoring and Evaluation Framework and the Field Visit Report template of the project were elaborated and monitoring reports on some activities produced by the national expert of the project. In addition, drafts of the Guidance on Grievance Redress Mechanism (GRM) and the UNDP Management Response template were developed for further consultation and agreement with national partners and implementation in target communities of the project.	
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2.4 PROGRESS UPDATE ON THE LOGIC FRAMEWORK INDICATORS ⁷					
2.4.1 PROGRESS UPDATE ON FUND-LEVEL IMPACT INDICATORS OF THE LOGIC FRAMEWORK					
<i>Fund-level Cored Indicators⁸ (Adaptation)</i>	<i>Baseline</i>	<i>Current value⁹</i>	<i>Target (mid-term)</i>	<i>Target (final)</i>	<i>Remarks (including changes¹⁰, if any)</i>
<i>Adaptation Core Indicator</i> <i>Direct Beneficiaries</i>	<i>Total direct beneficiaries (% of female)</i> 0	<i>Total direct beneficiaries (% of female)</i> No change from Baseline	<i>Total direct beneficiaries (% of female)</i> At least 1,133,215 females, 1,125,985 males	<i>Total direct beneficiaries (% of female)</i> 5,666,075 females, 5,629,925 males	
<i>Adaptation Core Indicator</i> <i>Indirect Beneficiaries</i>	<i>Total indirect beneficiaries (% of female)</i> 0	<i>Total indirect beneficiaries (% of female)</i> No change from Baseline	<i>Total indirect beneficiaries (% of female)</i> 16,195 mln. Ppl. (at least 30% women))	<i>Total indirect beneficiaries (% of female)</i> Indirect beneficiaries: 16.143 million males, 16.247 million females, 32.39 million people	
<i>Number of total beneficiaries relative to total population</i>	<i>Total beneficiaries</i> 0 <i>Number of Total Population</i> 0 <i>Year: 2021</i>	<i>Total beneficiaries</i> No change from Baseline <i>Number of Total Population</i> 36 mln. <i>Year: 2022</i>	<i>Total beneficiaries</i> 16,195 mln. <i>Number of Total Population</i> 36 mln. <i>Year: 2024</i>	<i>Total beneficiaries</i> 32.39 mln. <i>Number of Total Population</i> 36 mln. <i>Year: 2027</i>	<i>The population of Uzbekistan has increased from 32.39 mln. People (2019) to 36 mln. people as of December 2022.</i>
<i>Adaptation Impact Indicator 1</i> <i>A1.0 Increased resilience and enhanced livelihoods of the most vulnerable people, communities and regions</i>	Loss of life: Average of 8 lives lost annually (1996-2016) for the entire country Economic losses for the entire country: US\$ 312.3 million average annual loss	No change from Baseline	0/No change (the new system will not be fully operational at scale by mid-term)	50% lives (average of 4) saved from climate-induced hazards per annum 3% or 9.37 million USD expected reduction in economic damages from	

⁷ Per the approved methodology in and the Logic Framework in the Funding Proposal, please provide an update on the relevant indicators.

⁸ As per the relevant indicators established in the Funding Proposal and the Performance Measurement Framework, including relevant updates agreed with GCF, if applicable.

⁹ As of 31 December of the relevant year.

¹⁰ Related to the approved indicators and targets in the Logic Framework.

	due to various hazards (floods, droughts and mudslides) ¹¹ .			various hazards ¹²	
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2.4.2 PROGRESS UPDATE ON PROJECT/PROGRAMME LEVEL INDICATORS OF THE LOGIC FRAMEWORK ¹³					
Outcome/Output Indicators (Mitigation/Adaptation)	Baseline	Current value ¹⁴	Target (mid-term)	Target (final)	Remarks (Including changes ¹⁵ , if any)
Indicator 1 (Outcome level) (Adaptation) Number of technologies and innovative solutions transferred or licensed to promote climate resilience as a result of Fund support	The majority of meteorological observation stations (75 out of 85) operate in manual mode, with limited use of remote-sensing and satellite data. The existing multi-hazard EWS system lacks vulnerability data of population and infrastructure, as well as systematic risk assessment and hazard mapping tools. Baseline: 0 technologies/solutions; Status: initiated/installed	0	9 technologies/solutions; status: initiated/installed Including: 4 Hydrometeorological observation technologies upgraded and installed: AWS; automatic streamflow measurements; upper-air stations; radar 4 technologies for multi-hazard risk analysis, forecasting and impact-based MHEWS: socio-economic risk and vulnerability model; mudflow modelling; landslide risk modelling; Drought EWS for the Syr Darya and Zeravshan rivers 1 communication technology: visualization systems at 3 RCMCs	11 technologies/solutions; status: introduced/in use Including: 5 Hydrometeorological observation technologies upgraded and operational: AWS; automatic streamflow measurements; upper-air stations; radars; centralised database for meteorological measurements 4 technologies for multi-hazard risk analysis, forecasting and impact-based MHEWS: socio-economic risk and vulnerability model; operational mudflow modelling; operational landslide risk modelling; Drought EWS for the Syr Darya and Zeravshan rivers	

¹¹ FS section 5.2 provides the national estimate of direct economic cost of disasters that is used to calculate baseline: annual economic impact is estimated to be US\$ 236 million for floods, US\$ 67.2 million for droughts, US\$ 9.1 million for mudslides (including the valuation of loss of life: 8 people with a VSL of US\$ 871,798).

¹² According to the Economic Analysis, the US\$ 9.37 mln estimated reduction in economic damages, equal to 3% of US\$ 312.3 mln baseline cost of climate-related disasters, is based on the assumed economic impact from increased lead time of planning for hazards and on the avoidance of loss of lives due to the them

¹³ As per the relevant indicators established in the Funding Proposal and the Performance Measurement Framework, including relevant updates agreed with GCF, if applicable.

¹⁴ As of 31 December of the relevant calendar year.

¹⁵ Related to the approved indicators and targets in the Logic Framework or relevant FAA.

				2 communication technologies: visualization systems at 7 RCMCs, public notice boards in 20 communities	
Indicator 1 (Output level)					
Indicator 1.1 Number of new hydro-meteorological monitoring equipment purchased, installed and operational	Level = 0	25 AWS procured	13 automatic weather stations (AWS) partially installed, calibrated and operational; 2 upper-air stations partially modernized; 1 online radar system partially established	25 automatic weather stations (AWS) installed, calibrated and operational; 4 upper-air stations modernized; 2 online radar system established	25 AWS were procured at once to ensure unification and smooth integration to the existing network of Uzhydromet, including ensuring their sustainability through reduction of maintenance and experts costs required for operation of AWS
Indicator 1.2 Number of districts for which hazard and risk maps (covering landslides, mudflows, avalanches and hydrological droughts) are available	0	0	2	7	
Indicator 1.3 Level of institutional capacity and knowledge of Uzhydromet staff on monitoring and forecasting technologies and procedures	Level = 0 ¹⁶ Using the UNDP Capacity Assessment Methodology ¹⁷ , the project team will design a tailored assessment to establish a baseline of the institutional capacity of Uzhydromet staff at the project inception phase.	0	50% targeted staff (of a target audience of 600 people) trained (including 60% women/40% men) Institutional capacity assessment score for Uzhydromet enhanced by 20 % against baseline	100% targeted staff (of a target audience of 600 people) trained (including 60% women/40% men) Institutional capacity assessment score for Uzhydromet enhanced by 50 % against baseline	16 experts (9 men and 7 women) of Uzhydromet increased their knowledge and skills on UNIMAS and MITRA communications systems
Indicator 2 (Output level)					
Indicator 2.1 Improvement in the timeliness of warnings received by end-users as a result of the impact-based integrated MHEWS ¹⁸	2.1.1. Warnings about all hydrometeorological phenomena/hazards provided with 1-3	0	2.1.1. Warnings about all hydrometeorological phenomena/hazards provided with 1-3	2.1.1. Warnings on sudden changes in weather covering most of the territory of the country - 4-6 days lead time	

¹⁶ Baseline for output 1.3 is to be established under activity 1.3 during Year 1 of the project through an institutional capacity assessment scorecard

¹⁷ <https://www.undp.org/content/dam/aplaws/publication/en/publications/capacity-development/undp-capacity-assessment-methodology/UNDP%20Capacity%20Assessment%20Users%20Guide.pdf>

¹⁸ The scoring and end-user survey methodology for this indicator will be designed through activity 3.3 during Year 1 to capture user perceptions of the timeliness of warnings for different hazards. The survey will include institutional and individual users of MHEWS. Baseline survey/scoring will be conducted through activity 3.3 during Year 1.

	<p>days lead time (before an event) in the absence of the impact based integrated MHEWS</p> <p>2.1.2. Time required to communicate warnings from MES HQs to its regional divisions: 15 minutes; time required to communicate warnings to population: 60 minutes.</p>		<p>days lead time (before an event) in the absence of the impact based integrated MHEWS</p> <p>2.1.2. Time required to communicate warnings from MES HQs to its regional divisions: 15 minutes; time required to communicate warnings to population: 60 minutes.</p>	<p>Mudflow warnings - 3-4 days lead time Avalanche warnings -4-5 days lead time</p> <p>2.1.2. 50% reduction: time of communicating warnings from MES HQs to its regional divisions: 7.5 minutes; time of communicating warnings to population: 30 minutes.</p>	
<p>Indicator 2.2 2.2 Level of institutional coordination among Uzhydromet, MES and RCMCs on multi-hazard early warnings responses and dissemination¹⁹</p>	Level = 2	0	Level = 3	Level = 4	
<p>Indicators 2.3 Number of functional regional crisis management centres with access to area-specific early warnings, mobile alerts and risk mapping technologies</p>	<p>0</p> <p>Currently, RCMCs are housed in offices that lack updated communication facilities (e.g. videoconferencing) as well as access to area-specific warnings and mobile alerts, as well as risk maps based on up to date hazard information</p>	0	<p>2</p> <p>2 Regional Crisis Management Centers (RCMCs) equipped with visualization systems and have access to updated risk maps, area-specific hazard alerts and warning information. As a result, RCMCs will have improved capacity in communicating and responding to evolving emergencies.</p>	<p>7</p> <p>7 Regional Crisis Management Centers (RCMCs) equipped with visualization systems and have access to updated risk maps, area-specific hazard alerts and warning information for risk mitigation and early actions</p>	
Indicator 3 (Output level)					

¹⁹ Level 1 = no institutional coordination mechanisms/SOPs; Level 2= an institutional coordination framework established/documents by not supported by clear SOPs on data exchange and communication, majority of surveyed institutional users are not fully aware/systematically engaged in coordination; Level 3 = at least 2 institutional coordination frameworks or Standard Operating Procedures (SOPs) in place among Uzhydromet, MES and RCMCs on data exchange, risk and hazards analysis, and warnings dissemination to regional crisis centers; 50% of surveyed institutional users (i.e. 10 out of 20) report that the level of coordination is adequate for performing their functions within MHEWS; Level 4 = At least 4 institutional coordination frameworks or Standard Operating Procedures (SOPs) in place among Uzhydromet, MES and RCMCs on data collection, archive, risk and hazards analysis, and warnings dissemination to regional crisis centers 80% of surveyed institutional users (i.e. 16 out of 20) report that the level of coordination is adequate for performing their functions within MHEWS.

Indicator 3.1 Level of user interaction in the co-design and co-production of disaster-related information, as a result of the establishment of a National Framework for Climate Services (NFCS) for Uzbekistan	Level = 1 ²⁰	0	Level = 2	Level = 2	
Indicator 3.2 Number of revenue generation options based on delivery of disaster risk information products/services included in the business model and endorsed by institutional and sectoral users	0	0	0 ²¹	At least 3 revenue generation options based on disaster-related information/services endorsed by users/stakeholders from climate-sensitive sectors	
Indicators 3.3 Number of communities in targeted areas ²² with improved access to early warning alerts through information board, mahalla training and info-products/meetings	0	0	12 50% of surveyed beneficiaries (incl. 50% female) in targeted communities report that the warnings and climate advisories are clear, accessible and easy to apply for enhanced preparedness	20 75% of surveyed beneficiaries (incl. 50% female) in targeted communities report that the warnings and climate advisories are clear, accessible and easy to apply for enhanced preparedness	<i>More than 200 people from target communities improved knowledge on climate hazards and early warning systems through thematic seminars organized in 15 target districts</i>

²⁰ Level 1: no institutional engagement channels with end-users exist; Level 2: a user-dialogue platform set up through NFCS consultation process to review the disaster-related information products; Level 3: a regular user-dialogue mechanism incorporated into the NFCS action plan and the National Climate outlook platform.

²¹ Feasibility analysis for a sustainable value chain-based business model for disaster-related information and services will be completed at this stage, and will be the basis for the consequent discussion and endorsement of revenue-generating options.

²² The project has identified 15 districts located in seven provinces in eastern Uzbekistan as hazard-prone target regions. They are: Qoichirchik, Bostanlik, Sirdarya, Saihunabad, S. Rashidov, Gallaaral, Bulungur, Jambai, Koshrabad, Kitab, Yakkabag, Dehkanabad, Chust, Turakurgan, and Dangarin.

2.6 IMPLEMENTATION CHALLENGES AND LESSONS LEARNED

Describe implementation challenges faced during the last reporting period, including measures adopted and lessons learned. If any issues have arisen in the last twelve (12) months of implementation that may result in a change to the scope and/or timing of the project, please provide a description of those items and how they have impacted the implementation period and final targets.

Challenge encountered	Type ²³	Measures adopted	Has the challenge been resolved during reporting period? (Y/N)	Impact on the project implementation ²⁴	Lessons learned and Other Remarks	Is this challenge caused by COVID-19? (Y/N)	Severity of Impact	Select a type of COVID-19 challenges encountered	Describe if any support is required from the GCF to address the COVID-19 impact on your project/programme.
Lack of understanding of reporting requirements and other key administrative procedures	Implementation	Additional meetings and briefings held on the GCF's rules and procedures, reporting requirement and deadlines.	Y	Minor / Solved	More consultations and discussions on reporting and procedures requirements would be essential for raising awareness	N	On track with no or minor impact	Others	There is no impact of COVID-19 observed related to this issue

²³ Implementation; Legal; Financial; Environmental/Social; Political; Procurement; Other; AML/CFT; Sanctions; Prohibited Practices.

²⁴ Minor/Solved; Moderate; High.

Change of requirements of the GCF for requests of disbursements re-visited planned activities and delayed the request of the second tranche	Financial	Planned activities were reviewed and corrective measures taken to meet new requirements of the GCF	Y	Moderate	More precise planning and closer monitoring of activities are required to ensure timely achievement of delivery threshold	N	Facing delays <small>Click or tap to enter a date.</small>	Financing and Concessional-ity	This is not COVID-19 related challenge
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2.5 REPORT ON CHANGES DURING IMPLEMENTATION (include actual and expected changes)

During the consultations with representatives of national and regional departments of MES and Uzhydromet, as well as the informational seminars organized in target regions of the project for representatives of local communities, authorities, regional departments of MES and Uzhydromet, the need for revision of target communities of the project was identified, since there are some communities more vulnerable to the risks of climate change than the communities identified and proposed during the development process of the project proposal for GCF. The project in consultation with MES and Uzhydromet revised a list of target districts, which has been agreed and approved during the virtual Project Board meeting held on 10 October 2022. This proposed minor change will not have an impact on the target results of the project, on the contrary, it will allow the project to increase the coverage of communities, which are the most prone and suffer from climate induced risks and disasters.

While planning project activities and reviewing a procurement plan of the project additional consultations were held with MES and Uzhydromet regarding required equipment for modernization of the observation system of Uzhydromet and EWS of MES. During these consultations both implementing partners proposed to revise an initial procurement plan, where procurement of some major equipment was divided and distributed among years. This will create some challenges in procuring the same type of equipment from the same manufacturer through the open international tenders. As a result, it will be difficult for recipients, Uzhydromet and MES, to unify and integrate them smoothly into the existing networks of both organizations and MHEWS. In addition, it will not be effective in terms of training specialists in operation of this equipment, because training employees to work with equipment from different manufacturers would take more time and not economically effective. Plus, the equipment from different manufacturers will increase the operation and maintenance costs, as the organization will have to purchase and stock spare parts from different manufacturers. This issue has also been raised and discussed during the virtual Project Board meeting held on 10 October 2022 and the regular Project Board meeting held on 13 December 2022. The PB agreed with proposal of the project on consolidation and procurement of the equipment within a single contract from one vendor, whenever it is possible, however further consultation and agreement with IRH colleagues was suggested.

In addition, according to the initial project budget, it was planned to hire a project driver with an own car. This was recommended to save funds required for acquisition of a brand-new project vehicle. However, after consultations with national partners, it was proposed to procure the project vehicle, as the pilot regions of the project are located in remote mountainous areas. Plus, under the newly introduced National Personal Service Agreement (NPSA) modality for recruitment of local personnel, there is no position of the project driver with own vehicle any longer, which existed under the Service Contract modality until 2022. Considering that extensive travels of project personnel, national and international experts are planned to the areas of project implementation, including mountainous areas, and related to implementation of activities in the field, it was proposed to procure a vehicle from Activity 2.3, where sufficient funds exist and some savings are expected. Allocation of the funds for procurement of the vehicle within the respective output will not have impact over implementation of the activities and on the delivery of project results planned under Activity 2.3. The vehicle procurement has been discussed and agreed during the virtual Project Board meeting held on 10 October 2022, and respective Note-to-File has been cleared by RTA of the project.

Further, due to lack of knowledge and low capacity of most national experts and organizations on climate change and EWS

issues and limited number of available strong and experienced consulting companies, the project faced some difficulties in sourcing companies for planned activities within Activity 1 and Activity 3 related to needs assessment and capacity building of Uzhydromet and vulnerability assessment of communities to the risks of climate change. The project had to re-announce twice RFQs for both planned activities and no positive results were yielded. Therefore, the project is planning to engage a national specialist to conduct needs assessment of Uzhydromet and develop a training plan based on the results of the assessment. Regarding the vulnerability assessment, due to time constraints the project divided this activity into two parts and already conducted the assessment in 2 districts of Fergana Valley. The project will continue the assessment in remaining target communities of 5 regions in 2023.

Furthermore, a preliminary market research of some equipment required for modernization of hydrological network of Uzhydromet, and information visualization system for RCMCs and outdoor communication boards for MES revealed the significant increase of prices for the requested equipment. Therefore, the project will consult with both national partners and seek solutions in case the allocated budget for procurement of the planned equipment will not be sufficient to procure the requested amount indicated in the Funding Proposal and the Procurement Plan.

SECTION 4: REPORT PROJECT SPECIFIC ON ENVIRONMENTAL AND SOCIAL

SAFEGUARDS & GENDER

4.1 IMPLEMENTATION OF ENVIRONMENTAL AND SOCIAL SAFEGUARDS AND GENDER ELEMENTS

(max 1 page)

(4.1.1) The information includes description on any changes in the key environmental and social risks and impacts as identified and arising from the implementation including any unanticipated risks and impacts (*ex. from changes in laws and regulations*) and, based on these if any change in the project's environmental and social risk category. In case of a change in the E&S risk category for the project, please provide an explanation.

The project will have extremely limited environmental and social impacts, with any impacts being highly spatially and temporally restricted and totally reversible. The environmental and social impacts are likely only as a result of the structural interventions limited to the installation of the hydrometeorological observation equipment and information boards on the existing government sites. No changes in risks (Risk 1: Contamination of water sources; Risk 2: Construction Noise; Risk 3: Sediment movement during the installation of hydro-meteorological observation equipment; Risk 4 Vegetation Clearing; Risk 5: Disturbance of Riverine and Riparian Ecosystems; Risk 6: Locating infrastructure that is socially detrimental; Risk 7: Worker's and Community Health and Safety) defined in Part B of SESP form have been identified during implementation of project activities in the reporting period. Since installation of 25 AWS procured by the project is planned for 2023, there were no structural interventions in target regions of the project in 2022.

(4.1.2) The information should include status of compliance with applicable laws and regulations of the country as well as the relevant conditions or covenants under the FAA. This can be captured in the table below:

Status of compliance with applicable laws and regulations and the conditions and covenants under FAA

Compliance Type	Applicable laws and regulations/conditions and covenants	Status of compliance
Covenant	<p><i>FAA Clause 10.02</i></p> <p><i>In addition to Clause 18.02 of the AMA, the Accredited Entity covenants that as from the Effective Date of this Agreement it shall:</i></p> <p><i>[...]</i></p> <p><i>(e) Undertake and/or put in place any adequate measures in order to ensure that the management of the environmental and social risks and impacts arising from the Funded Activity complies at all times with the recommendations, requirements and procedures set forth in the Social and Environmental Screening Procedure (SESP) Template, which was provided by the Accredited Entity to the Fund before the Approval Decision and which shall not be amended, abrogated or waived without prior written approval of the Fund;</i></p> <p><i>[...]</i></p> <p><i>(h) Obtain, or ensure that the Executing Entity shall acquire, all land and rights in respect of land that are required to carry out the Funded Activity and shall promptly furnish to the GCF, upon its request, evidence that such land and rights in respect of the land are available for the purposes of the Funded Activity;</i></p> <p><i>(i) Ensure that the Executing Entity shall acquire all necessary environmental licenses or clearances to carry out the Funded Activity,</i></p>	<p><i>(e) Adequate measures will be undertaken during the implementation of the project. Actual sites for installation of 25 AWS have been identified in consultation with Uzhydromet. The project will visit and identify whether construction works will be required for installation of AWS. The installation of AWS procured by the project is planned for the first half of 2023.</i></p> <p><i>(h) UNDP will ensure that EE has all land rights required for implementation of the project.</i></p> <p><i>(i) UNDP and EE will ensure all necessary environmental licenses or clearances are acquired during the implementation of the</i></p>

	<i>and shall promptly furnish evidence, in a form and substance satisfactory to the GCF and upon its request, that such licenses or clearances are available for the purposes of the Funded Activity;</i>	<i>project.</i>
Law/Regulation	<p><i>Presidential decree "About measures for further enhancement of activities of the center of hydrometeorological service of the Republic of Uzbekistan" (President decree: 17 Nov 2020);</i></p> <p><i>Environmental Protection Concept of Uzbekistan until 2030, (President decree: 30 October 2019);</i></p> <p><i>Law of the Republic of Uzbekistan "On the protection of the population and territories from natural and man-made emergencies" (Law, #790, 17 Aug 2022)</i></p>	<p><i>The project activities on modernization of hydrometeorological observation system of Uzhydromet are fully in compliance with this Presidential decree, which defines measures on modernization and installation of new AWS, radars, etc, including improvement of quality of hydrometeorological information and services.</i></p> <p><i>The planned structural interventions (installation of AWS and information boards) of the project correspond to category IV (local impact low risk projects) of the national ESIA and regulations on state environmental expertise. The required permits/certificates will be obtained during the installation process of the equipment if necessary.</i></p> <p><i>The project activities on increasing resilience and awareness of the population on climate change risks and ES are fully in line with this Law, which defines measures on raising awareness and preparation of the population and specialists of MES to emergency situations.</i></p>

(4.1.3) Provide a report on the progress made in implementing environmental and social management plans (ESMPs) and frameworks (ESMFs) describing achievements, and specifying details outlined in the tables below.

Implementation of management plans and programmes

(i) activities implemented during the reporting period, including monitoring	(ii) outputs during the reporting period	(iii) key environmental, social and gender issues, risks and impacts addressed during implementation	(iv) any pending key environmental, social and gender issues needing accredited entity's actions and GCF attention
The project held several consultations with Uzhydromet regarding installation of AWS on project sites. During these consultations it was agreed that Uzhydromet will obtain the required ESIA certificates (as a contribution to the project) from the State Center for Ecological Expertise before installation of AWS in each selected location. The installation of equipment in target project sites are planned for 2023.	No outputs produced yet related to this activity	No activities related environmental and social risks were implemented in the reporting period	No pending environmental and social issues at this stage of implementation of the project

(4.1.4) AEs are obligated to inform executing entities, people and project beneficiaries about the GCF's Independent redress Mechanism and the AE's own Grievance Redress Mechanism. This includes bringing the contact details, accessibility, and basic procedures of such mechanisms to the attention of executing entities, people and project beneficiaries. Please provide detailed information on the steps taken by the AE to fulfil this obligation during the reporting period in the project target area and to the public, including the dissemination of information through meetings, brochures, hotlines, and other means. Please provide detailed information including dates and venues of activities, number of attendees, confirmation that information was provided on the 1) IRM and 2) AE's grievance redress mechanism 3) project-level grievance mechanism (where applicable).

As per the requirement of the UNDP Accountability Mechanism (see details in link 1 below), which aligned with the GCF's IRM, drafts of the Guidance on Grievance Redress Mechanism (GRM) and the UNDP Management Response template were developed for further consultation and agreement with MES and Uzhydromet, local partners and implementation in target communities of the project. The project has also engaged the national gender and M&E expert, who is responsible not only for integration of gender aspects, but also for setting up the Grievance Mechanism and monitoring of project activities and risks.

[Type the answer to 4.1.4 here and please keep the boilerplate text below]

Information regarding the UNDP corporate Accountability Mechanism (including the public website where complaints can be filed, and the case registries of the Stakeholder Response Mechanism and the Social and Environmental Compliance Unit); as well as the Project-level grievance redress mechanism; and the GCF IRM is made available to project stakeholders throughout project design and implementation including in Project Inception Workshops; and also made available to all project stakeholders, and yearly reporting on project-level grievance redress mechanisms and stakeholder engagement events (including dates and venues) where this information is made available can be found in Sections 4.1.5 and 4.1.6 in PPMS.

For further information, please refer to the following web links:

Social and Environmental Compliance Review and Stakeholder Response Mechanism: <https://bit.ly/3Mc6Wqo>

Stakeholder Response Mechanism – Case Registry: <https://bit.ly/3Mldtzd>

Social and Environmental Compliance Unit - Case Registry: <https://bit.ly/3egxB95>

UNDP GRM Guidance: <https://bit.ly/3STllsK>

(4.1.5) Include a description of the actions undertaken towards increasing the relevant stakeholders' engagement in the project environmental, social and gender elements, and a list on the grievances received in the reporting period that will include at least the description of the grievance, the date the grievance was received, and the resolution of the grievance.

Information below in this sub-section should be provided for all projects regardless of the E&S risk category for the project

Implementation of the stakeholder engagement plan

(i) activities implemented during the reporting period	(ii) dates and venues of engagement activities	(iii) information shared with stakeholders	(iv) outputs including issues addressed during the reporting period
No activities related to engagement of stakeholders in project environmental, social and gender elements.	Implementation of these activities are scheduled for 2023.	The project held only informational seminars with representatives of local government and target communities on project objectives and activities to be implemented in close cooperation and engagement of stakeholders	No outputs to reported in the reporting period

(4.1.6) Implementation of the grievance redress mechanism

(i) description of issues/complaints received during the reporting period	(ii) date of receipt (YYY-MM-DD)	(iii) description of resolution	(iv) status of addressing issues/complaints
No issues/complaints	N/A	N/A	N/A

received during the re- porting period			
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4.2 GENDER ACTION PLAN

Provide a progress report on the gender action plan developed during project preparation stage for the reporting period. This will primarily be a report on activities undertaken and results achieved as a result of completion of an activity. Further it should also indicate if the project is on track to achieving the intended outcome(s).

The reporting should be done for activities, targets and indicators already set in the action plan including on vulnerable groups (youth, poor, female heads of households, etc.) as would have been identified in the gender analysis and action plan. If activities or targets are not achieved as per plan, reasons should be provided, and recourse action should be proposed. Please include a reporting on any changes or deviations.

Include a Report on implementation challenges and lessons learnt and how these will inform on-going actions and what action will be taken by when to address the challenges faced.

Incorporate both quantitative data and qualitative report of the performance of such actions, and on progress on actions identified.

The project recruited an international gender expert to review the Gender Action Plan of the project and provide recommendations on mainstreaming and inclusion of gender aspects into project activities. Also, the national gender and M&E specialist has been recruited to mainstream and integrate gender issues into activities planned by the project.

In addition, 26 people (9 men and 17 women) from national partners and project personnel increased their knowledge on gender mainstreaming and gender equality in the context of climate change through the training conducted by the international gender expert. Following this training, at the request of Uzhydromet, the project organized a separate training on gender mainstreaming, where 16 experts (4 men and 12 women) learned about gender issues and importance of integrating gender aspects into climate services provided by Uzhydromet.

4.2.1 PROGRESS ON IMPLEMENTING THE PROJECT-LEVEL GENDER ACTION PLAN SUBMITTED WITH THE FUNDING PROPOSAL.

Activities/actions	Indicators	Baseline	Targets, including sex-disaggregated targets	Budget (including currency)	Report on annual progress
Output 1: Upgraded hydro-meteorological observation network, modelling and forecasting capacities					
Activity 1.1. Upgrading and modernization of the meteorological and hydrological Observation System	No of consultations undertaken Proportion of women attending consultations	0 0	At least one per community/local settlement At least 50% participants of consultations are women		Consultations with communities regarding modernization of hydrometeorological observation systems, gender issues and GRM are planned for 2023
Activity 1.2. Upgrading Uzhydromet's capacity to store, process	Level of gender criteria integration achieved	0	Gender criteria are fully integrated into products		Integration of gender criteria into products will be started from

and develop hazard products, as well as to communicate hydro-meteorological data to regional divisions.			(Level3) ²⁵		2023, when the project starts development of climate risk models.
Activity 1.3: Re-training and advanced training of Uzhydromet staff on monitoring and forecasting technologies and procedures	Number of women Uzhydromet staff trained	19	Target: 60% of those trained women ²⁶ 60%	USD 7,100	The project conducted trainings on MITRA and UNIMAS communication systems, including a gender equality training for specialists of Uzhydromet.
Output 2: A functional Multi-Hazard Early Warning System is established based on innovative impact modelling, risk analyses, effective regional communication and community awareness					
Activity 2.1 Developing and installing a modernised and efficient system for assessing climate risks based on dynamic information on both hazards and vulnerabilities, including socio-economic risk models for decision making and prioritization of resilience building long-term/future investments	Baseline indicators refined and validated Assess means in which women and men access and perceive hazard and climate information across multiple sectors	0 0	Sex and age disaggregated data identified Gender-sensitive socio-economic vulnerability assessment conducted		This activity is planned to be launched in 2023.
Activity 2.2. Developing and introducing technical guidance, institutional and coordination frameworks to increase the efficiency of: i) data collection and archiving; ii) hazard mapping and modelling; iii) risk assessment; and iv) dissemination of information to RCMCs.	Number of women in consultation groups and among training audiences Capacity assessment scorecards reflect gender parameters Gender considerations are reflected in guidance (and policy) documents	0 0 0	At least 35% women Gender parameters fully integrated into capacity assessment Gender considerations fully integrated into policy documents (Level 3)		Institutional survey of MES to assess the level of coordination within MHEWS is planned for 2023. During the designing and conducting of the survey, integration of gender aspects will be ensured.

²⁵ 1 = not integrated; 2= partially integrated; 3= fully integrated

²⁶ Given that Uzhydromet currently employs 62% women, 60% is a realistic target.

Activity 2.3. Designing and implementing a system for information dissemination to RCMCs and area specific mobile alerts including an information visualization system for RCMCs with software	Warnings are useful to the needs of vulnerable groups Information on hazards delivered to multiple vulnerable groups	0 0	Vulnerable groups find information useful (Scale of 4) Ethnic, Minority groups, disabled persons reached		Area-specific mobile application has been developed by the project, which is being populated by MES with information that addresses gender aspects.
Output 3: Strengthened climate services and disaster communication to end users					
Activity 3.1. National Framework for Climate Services for Uzbekistan	Decision makers and practitioners are trained on gender mainstreaming based on UNDP training manual	11	35% of those trained women 46%	USD 1,500	A roundtable meeting to discuss the demand and needs for NFCS, designing process and related actions, and next steps for launching development process.
Activity 3.2. Sustainable business model for disaster-related information and services	Representation of women in planning teams and consultation groups	0	35% of representatives on planning teams and consultation groups women		Not launched yet. Scheduled for 2023.
Activity 3.3. Strengthening disaster-related communication and interaction with end users	Design of weather/climate advisories are tailored to the needs of men and women	0	Degree to which advisories are tailored (Level 3)		Not launched yet
	Information disseminated is utilized by women	0	Women utilize information (scale 3)		Not launched yet
	Proportion of women trainees and outreach audience	57	50% Women trainees and outreach audience 28%		The project conducted trainings on EWS and climate change risks for representatives of target communities in 7 pilot regions.
	Share of women-recipients of information products and agrometeorological advisory services	0	50% of recipients of information products and agrometeorological		Not launched yet

	Community advisory groups include women representation	0	<p>I advisory services are women</p> <p>50% of representatives are women</p>		<p>Consultations and formation of community advisory groups are planned for 2023.</p>
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4.3 PLANNED ACTIVITIES ON ENVIRONMENTAL AND SOCIAL SAFEGUARDS

Provide a list of activities in the ESMP to be implemented in the next reporting period. Include relevant deliverables such as reports or action plans, and other project specific products. Please include the monitoring schedule concerning ESS (including other potentially vulnerable groups and indigenous people) for the next annual reporting period.

The project will ensure that all planned activities in the fields, i.e. installation of AWS, hydrological equipment and outdoor communication boards were in line with social and environmental risks management indicated in SESP. The project in consultation with Uzhydromet will ensure that all national requirements on environmental and ecological control are strictly observed during installation of equipment or construction works on sites.

The project already held consultations with Uzhydromet on obtaining certificates from the State Center for Ecological Expertise, the national body responsible for Environmental and Social Impact Assessment (ESIA) of newly projects to be implemented by state organizations and private sector. It was agreed that as a contribution to the project, Uzhydromet will obtain the required permits and certificates before installation of 25 AWS procured by the project. The project will ensure that all required documents, including ESIA certificates, were obtained by Uzhydromet before installation of AWSs. The tentative timeline for carrying out the ESAI:

- Contract with the State Center for Ecological Expertise to carry out ESAI (responsible Uzhydromet) - February-March 2023.
- Allocation of land by local administrations for establishing 7 new hydrometeorological stations based on WMO's Guide to the Global Observing System – February-March 2023.
- Consultation meetings with communities – March-May 2023.
- Obtaining of certificates for all 25 AWS to be installed at the selected sites – March 2023.
- Installation of 25 AWS at the new and existing hydrometeorological stations – March-April 2023.

In addition, the project held consultations with MES regarding a draft concept of the Grievance Redress Mechanism (GRM), which has been developed by the project. Further consultations with MES for finalization of the GRM are planned before implementation in the regions. Here is the tentative timeline of milestones for GRM:

- Finalization of the GRM – February-March 2023.
- Presentation and discussion of the GRM with communities during the meetings to be organized in target regions of the project - April-May 2023.
- Capacity building trainings and seminars in target regions of the project - April-May 2023.
- Establishing complaints register as part of the project to record any concerns raised by the community during construction/installation works – June-July 2023.
- GRM's full functionality for addressing any concerns and complaints from affected parties promptly and transparently - by the end of 2023.

All individuals and communities participating in project activities will be made aware of the GRM and the means to access it. Any complaint will be advised to the UNDP, MES and Uzhydromet within 24 hours of receiving the complaint.

4.4 PLANNED ACTIVITIES ON GENDER ELEMENTS

Provide a list of activities in the gender action plan to be implemented in the next reporting period. Include relevant deliverables such as reports or action plans, and other project specific products including processes that will be involved to implement the activities effectively. Please include the monitoring schedule concerning gender activities for the next annual reporting period.

Report on actions taken on any of the recommendations made by the secretariat (if applicable) to improve the level of integration of gender issues in the project.

The project will conduct gender-sensitive vulnerability assessment of communities (activity 3.3) to the risks of climate change in the remaining 36 target communities of the project. Plus, socio-economic vulnerability assessments will be conducted by the project under Activity 2.1. The results of the assessments will be further used for socio-economic risk models planned to be developed by the project during 2024.

In addition, the project will held meetings and consultations with members of target communities to discuss gender related issues, engagement of women into project activities and establishing transparent GRM in target communities.

Plus, the project will continue activities related to capacity building of specialists of Uzhydromet and MES,

and communities, where the project will seek equal participation of women during the trainings and seminars.

A separate focus will be given to gender issues while developing information materials and warnings to be disseminated through area-specific mobile application and website of MES.

ANNEX AND ATTACHMENTS

Section 2 on PPMS: Updated implementation timetable for the Funded Activity.

Section 3 on PPMS:

- **Attachment 1.** Unaudited/Audited financial statements (as required by FAA) *(If available. If not submitted, indicate date of submission.)*
- **Attachment 2.** Interim/Final evaluation report (as required by FAA) *(If available. If not submitted, indicate date of submission.)*

Section 5 on PPMS:

- **Annex 1.** Accredited Entity compliance reports (self-assessment reports²⁷, report on actions pursuant to Clause 18.02, if applicable²⁸).
- **Other Attachments (if any).** Such as additional budget-related information, loan repayment schedules to GCF (interest/principal), equity investment schedules, other related reports relevant to the Funded Activity, statements of capital account, valuation reports, credit guarantee agreements, investor reports, and others, as specified in the relevant legal agreements (e.g. Funded Activity Agreement, Shareholders Agreement)

²⁷ In accordance with the AMA requirement in Clause 13.01 of the Accreditation Master Agreement, with the Fiduciary Principles and Standards, ESS and Gender Policy.

²⁸ Only applicable to International Accredited Entities. In accordance with the Monitoring and Accountability Framework, a report on its actions carried out or planned to be carried out pursuant to Clause 18.02 of the Accreditation Master Agreement.

Guidance on Challenges Encountered on COVID-Related Impact

Type of Challenges Encountered	Details of the challenges encountered
Field Activities	<i>This could include activities halted due to restrictions on movement and assembly of people e.g. baseline studies, construction work, workshops, training, planting activities, limitations in ability to supervise activities, etc.</i>
Supply Chain	<i>These are disruptions along the supply chain that are likely to be result from COVID-19 containment measures including lockdowns and travel restrictions resulting in delays in receiving inputs or equipment e.g. for agricultural activities, construction, etc., in addition to logistical disruptions from accessing markets.</i>
Liquidity and Solvency	<i>This could relate to impacts on revenue of user-payment (fee-for-service) projects, due to reduced demand; payments of penalties for non-adherence to timelines and compensation for higher costs and losses on contractual obligations, e.g. construction projects with specific timelines and deliverables; financial distress resulting from reduced income vis-à-vis running costs impacting companies' ability to meet financial obligations and the tightening of post-crisis fiscal space and its potential impact on private sector risk-appetite and market liquidity, etc.</i>
Project Costs	<i>This could include additional costs related to security, safety and office rentals going up as institutions put in place measures to protect their staff; retain offices and staff for longer than anticipated or set up remote working arrangements; increases in costs of materials due to limited supply vis-à-vis demand due to pandemic.</i>
Financing and Concessionality	<i>This includes increased demand for countercyclical financing; changes in pricing and types of instrument and financial support sought e.g. from financial intermediaries, demand for additional subsidies/concessionality as affordability/viability becomes negatively impacted by the COVID-19 crisis, challenges in securing co-financing as potential funders face financial constraints or financing becomes redirected to COVID related initiatives.</i>
Others	<i>This could include other factors not covered in the other options e.g. staff attrition, expected meeting conditions to funding due to impact of COVID-19 crisis-related restrictions, etc.</i>