

Annual Work Plan 2019

Project Title:	Scaling-up of Glacial Lake Outburst Flood (GLOF) risk reduction in Northern Pakistan
OP/Country Programme Outcome:	OP-III Outcome 6: Enhanced resilience and socioeconomic development of communities CPD Output 6.3: Legal and regulatory frameworks and policies are in place, and institutions capacitated for the conservation, sustainable use, inclusive access and benefit-sharing of natural resources, biodiversity, chemicals, waste management and ecosystems.
Country Programme Output: <i>(Those linked to the project and extracted from the CPAP)</i>	CPD Output 6.4: In line with international conventions and national policy frameworks, implementation mechanisms are effectively introduced that promote sustainable use of natural resources, protect ecosystem and biodiversity and effectively manage and mitigate the threats to this process (chemicals, waster, CO2 emissions, etc.)
Project Outputs: <i>(Those that will result from the project and are taken from the Project Strategy)</i>	1. Strengthened sub-national institutional capacities to plan and implement climate change resilient development pathways. 2. Community-based EWS and long-term measures are up-scaled to increase communities' adaptive capacity.
Implementing Partner:	Ministry of Climate Change
Responsible Parties:	UNDP


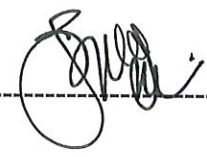
Project Brief Description

The melting of the Hindu Kush, Karakoram, and Himalayan glaciers in Northern Pakistan due to rising temperatures has created 3,044 glacial lakes in the federally-administered territory of Gilgit-Baltistan (GB) and the province of Khyber Pakhtunkhwa (KP). It is estimated that 33 of these glacial lakes are hazardous and likely to result in glacial lake outburst floods (GLOFs). Such outbursts have occurred in the past and when they do, millions of cubic metres of water and debris is released in a few hours, resulting in the loss of lives, destruction of property and infrastructure, and severe damage to livelihoods in some of the most remote areas of Pakistan. Currently 7,101,000 people remain at risk in GB and KP. In July 2015, over 280,000 people in GB and KP were affected by a combination of heavy rains and GLOFs.

At present, the country faces a critical gap in technical and technological capacity to monitor the status of glaciers through hydrological monitoring and forecasting. Current early warning systems (EWS) do not have the capacity to support the management of risks posed by rising water levels in the lakes or the ability to issue early warnings to communities. The design and implementation of medium- and long-term disaster management policies as well as risk reduction and preparedness plans is also not fully geared to deal with the specifics of GLOF threats.

The Government of Pakistan has recognized the threat from GLOFs in its National Climate Change Policy and in its National Determined Contribution to monitor changes in glacier volumes and related GLOFs. Currently, 58.7 million people in Pakistan are living in poverty, with 46 per cent of

the rural population and 18 per cent of urban households below the poverty line. To be able to strengthen capacities of vulnerable communities to address the GLOF issue urgently in the scale that is needed, the Government of Pakistan needs financial support from international donors. Flood hazards are already greater than what national public finance can manage. As a result, it has secured GCF resources to upscale ongoing initiatives on early warning systems and small, locally-sourced infrastructure to protect communities from GLOF risks.

Programme Period: 2017-2022 Atlas Award ID: 00102590 Atlas Project ID: 00104582 Start date: July 2017 End Date: June 2022 Management Arrangements: UNDP Support Services to NIM Responsible party: UNDP PAC Meeting Date: 22 June 2017 First Project Board Meeting Date: 17 July, 2018	2019 AWP budget: 6,266,757 Total resources required: 6,266,757 Total allocated resources: 6,266,757 • Regular: _____ • Other: _____ ◦ GCF 6,266,757 ◦ Government: _____ Unfunded budget: _____ In-kind Contributions: _____
<p style="text-align: center;">Agreed by UNDP (RR / DRR-P)</p>  <p style="text-align: center;">_____ NAOKO TAKASU Deputy Resident Representative Programme United Nations Development Programme Islamabad Pakistan</p> Date:	<p style="text-align: center;">Agreed by Government (Ministry of Climate Change)</p>  <p style="text-align: center;">_____ Date: 22/3/19</p>

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Annual Work Plan 2019

Project ID: 00104582 Project Title: Scaling-up of Glacial Lake Outburst Flood (GLOF) risk reduction in Northern Pakistan

EXPECTED OUTPUTS <i>And baseline, associated indicators and annual targets</i>	PLANNED ACTIVITIES <i>List activity results and associated actions</i>	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET			
		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)	
Output 1: Strengthened sub-national institutional capacities to plan and implement climate change resilient development pathways. Indicator 1.1: Strengthened institutional and regulatory systems for climate-responsive planning and development. Baseline 1.1: National, provincial and local disaster management institutions and development planners are unable to design, finance and analyze GLOF risk reduction measures on the basis of reliable, comprehensive information. Targets 1.1: By the end of Year 3, 100% of the national and 90% of district and community authorities in the KP and GB regions are able to prioritize and plan measures to minimize potential losses from GLOFs.	Activity Result 1.1. Provincial line and planning departments have technical capacities to mainstream CC into development plans									
	Action 1.1.1: Consultancy (3 experts) for conducting Knowledge, Aptitude and Practices (KAP) Studies as well as documenting local/ indigenous knowledge in 15 districts		x	x		UNDP	GCF	71300	60,000	
	Action 1.1.2: Consultancy (4 experts) for stakeholder needs and capacity assessments at national, provincial and district levels		x	x		UNDP	GCF	71300	60,000	
	Action 1.1.3: Consultancy (4 experts) Hazard, Vulnerability Risk Assessment of all target valleys and districts in KP and GB, in line with criteria for HVRA		x	x	x	UNDP (P&D, GBDMA and KPDMA)	GCF	71300	60,000	
	Action 1.1.4: Consultancy (01 expert) to study and explore significant glaciers in the target areas as an eco-tourism potential for diversification of livelihoods as climate change adaptation measure;		x	x	x	UNDP	GCF	71300	15,000	
	Action 1.1.5: Consultancy (3 experts) for identification and preparation of integrated provincial Climate Change Adaptation Action Plans		x	x	x	UNDP	GCF	71300	45,000	
	Action 1.1.6: Individual Consultants-Subject specialists (National Technical/ climate change expert (44,880), Safeguards specialist (25000), Glaciologist (15,000), Climatologist/meteorologist (10,000), Agriculture expert (10,000)		x	x	x	UNDP	GCF	71300	104,880	
Action 1.1.7: Consultancy (2 experts) for updating of glacier inventory of Pakistan		x	x	x	UNDP (PMD)	GCF	71300	40,000		

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES List activity results and associated actions	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET				
		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)		
And baseline, associated indicators and annual targets	Action 1.1.8: Consultancy (2 experts) to conduct bio-engineering feasibility studies		x	x	x	UNDP	GCF	71300	35,000		
	Action 1.1.9: Consultancy (4 experts) to conduct forestry surveys of project sites (forest, rangelands, biodiversity)		x	x	x	UNDP	GCF	71300	60,000		
	Action 1.1.10: GIS Mapping of Hazard community (Contractual services-companies for GIS mapping of potential hazard locations (GLOF lakes) and selection of project sites/interventions (GB 30,000 and KP 20,000)		x	x		UNDP (P&Ds, GBDMA/GB EPA and KPDMA/ KP EPA)	GCF	72100	50,000		
	Action 1.1.11: Technical field missions (Field visits for monitoring, survey, feasibility assessment of proposed interventions) (GB 30,000 and KP 20,000)		x	x	x	UNDP (P&Ds, GBDMA/GB EPA and KPDMA/ KP EPA, KP Agriculture deptt. and GB Agriculture deptt.)	GCF	71600	50,000		
	Action 1.1.12: Quarterly field monitoring visits to implementation areas and communities (MoCC, concerned federal ministries, provincial line departments and UNDP monitoring missions)		x	x	x	UNDP	GCF	71600	50,000		
	Action 1.1.13: Travel costs for consultants to conduct assessment, survey and studies to the targeted implementation areas		x	x	x	UNDP	GCF	71600	75,000		
	Action 1.1.14: Salary IP Staff (Technical Specialist, Int'l)	x	x	x	x	UNDP	GCF	61300	25,267		
	Activity Result 1.2. Sub-national institutions coordinate effectively to implement CCA action plan and CCA initiatives										
	Action 1.2.1: Functional review of climate change cells at national and provincial levels, design and layout			x	x	UNDP (MoCC)	GCF	71300	10,000		
	Action 1.2.2: Stakeholders' exposure visits to GLOF implementation sites and vulnerable communities involving national and sub-national officials, NGOs, media, donors		x	x	x	UNDP	GCF	71600	38,500		
	Indicator 1.2: Number of policies introduced to address GLOF risks or adjusted to incorporate GLOF risks.										
	Baseline 1.2: Only 2 comprehensive disaster management guidelines exist for the KP and GB regions.										
	Target 1.2: By the end of Year 3, 100%										

EXPECTED OUTPUTS <i>And baseline, associated indicators and annual targets</i>	PLANNED ACTIVITIES <i>List activity results and associated actions</i>	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET		
		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)
of the national and 90% of district and community authorities in the KP and GB regions are able to prioritize and plan measures to minimize potential losses from GLOFs.	Action 1.2.3: GLOF-II project pre-implementation documentary (procurement of services (company) to develop GLOF-II project pre-implementation documentary)		x	x	x	UNDP	GCF	74200	45,000
	Action 1.2.4: Design and roll-out of the national and sub-national GLOF-II project web-site (consultancy/expert firm)		x	x	x	UNDP	GCF	74200	13,000
	Action 1.2.5: Design and printing of visibility and outreach material (brochures, leaflets, newsletters, banners, posters, sign-boards, stickers, caps, t-shirts, etc.)		x	x	x	UNDP	GCF	74200	45000
	Action 1.2.6: Media awareness campaign (press-conferences, media-tours, project expos, seminars, TV/radio/online outreach, etc.)		x	x	x	UNDP	GCF	74200	56,000
	Action 1.2.7: Procurement of print space and production of articles/materials		x	x	x	UNDP	GCF	74200	25,089
	Action 1.2.8: Quarterly field monitoring visits to implementation areas and communities (PMU, PIU and FOs)		x	x	x	UNDP	GCF	71600	85,000
	Action 1.2.9: Rental and maintenance of premises (Office premises for PMU, PIU, FOs)	x	x	x	x	UNDP	GCF	73100	120,000
	Action 1.2.10: Security guard services for rented premises and other security measures	x	x	x	x	UNDP	GCF	72100	65,000
	Action 1.2.11: IT equipment (PMU, PIUs and FOs)		x			UNDP	GCF	72800	20,000
	Action 1.2.12: Regular maintenance of IT/office equipment		x	x	x	UNDP	GCF	73400	14,770
	Action 1.2.13: Procurement/installation of 40 KVA Generator for PMU		x	x		UNDP	GCF	72200	40,000

EXPECTED OUTPUTS <i>And baseline, associated indicators and annual targets</i>	PLANNED ACTIVITIES <i>List activity results and associated actions</i>	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET		
		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)
Output 2: Community-based EWS and long-term measures are up-scaled to increase communities' adaptive capacity. Indicator 2.1: Number of vulnerable households in KP and GB covered by a GLOF early warning system. Baseline 2.1: Vulnerable households are not able to receive and react to GLOF early warning messages. Target 2.1: By the end of the project, 100% of households in target communities are able to receive and respond to early warnings and take the appropriate actions following the warning. (696,342 people: 348,171 men, 348,171 women)	Action 1.2.14: Procurement of 10 vehicles (01 Toyota sedan, 09 double cabin 4x4 pickups)		x	x	x	UNDP	GCF	72200	360,000
	Activity Result 2.1. Expanded weather surveillance and discharge measuring networks								
	Action 2.1.1: Consultancy (4 experts) for ground-truthing baseline surveys against GIS mapping of high-risk vulnerable areas and selection of project sites/interventions in KP and GB		x	x	x	UNDP (P&Ds, GBDMA/GB EPA and KPDMA/ KP EPA)	GCF	71300	60,000
	Action 2.1.2: Consultancy (4 experts) for feasibility studies for installation of EWS/AWS equipment and devices in KP and GB		x	x	x	UNDP (PMD)	GCF	71300	60,000
	Action 2.1.3: Technical field missions for subject specialists for monitoring, survey, feasibility of proposed interventions (Federal (MoCC:23,000, GB: 40,000, KP: 30,000)	x	x	x	x	UNDP (MoCC, P&Ds, GBDMA/GB EPA and KPDMA/ KP EPA)	GCF	71600	93,000
Indicator 2.2: Number of Community-based organizations trained in the operation and maintenance of the EWS. Baseline 2.2: 2 GLOF early warning system for KP and GB in place. Target 2.2: By the end of the project, at least 24 CBOs are trained in the operation and maintenance of the EWS and ensure its continued functionality.	Action 2.1.4 Salary IP Staff (Technical Specialist, Int'l)	x	x	x	x	UNDP	GCF	61300	101,068
	Activity Result 2.2. Early warnings are effective in protecting communities from climate-induced risks								
	Action 2.2.1: Consultancy for establishment (2 experts) and initial running (5 experts – 6 months) of GLOF/CC digital library and knowledge repository at national, provincial and district level offices (specific locations to be determined), connected to national GIS system and database) and relevant departments (PMD, KPDMA, GBDMA KPEPA and GBPEA)		x	x	x	UNDP	GCF	71300	100,000
	Action 2.2.2: Equipment, resource material and fixtures for establishment of a digital library and knowledge repository		x	x	x	UNDP	GCF	74200 72200 72800	70,000

EXPECTED OUTPUTS <i>And baseline, associated indicators and annual targets</i>	PLANNED ACTIVITIES <i>List activity results and associated actions</i>	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET		
		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)
	Action 2.2.3: Broadcasts of GLOF project documentaries, expert programmes on national/international and private TV networks		x	x	x	UNDP	GCF	74200	70,000
	Action 2.2.4: GLOF public awareness print material at provincial, district and valley level (banners, posters, bill-boards, sign boards, brochures, pamphlets, etc.)		x	x	x	UNDP	GCF	74200	100,000
	Action 2.2.5: National climate change/GLOF web-site/portal developed and connected to PMD, Agriculture, NDMA/PDMA and other relevant departments (Consultancy/Experts-Firm)		x	x	x	UNDP (MoCC)	GCF	74200	50,000
	Action 2.2.6: Stakeholders' communication and coordination workshops organized at national, provincial level to share project success stories, challenges and way forward (6 workshops - one each at national (Islamabad), provincial (Gilgit, Peshawar) and district levels (Hunza, Skardu, Chitral, Mansehra)		x	x	x	UNDP	GCF	75700	110,000
	Action 2.2.7: Reciprocal visits by community members to targeted valleys (delegations from 15 target districts visit other districts for learning from each other)		x	x	x	UNDP	GCF	71600	150,000
	Action 2.2.8: Fifteen (15) awareness workshops delivered at targeted national and sub-national schools, communities		x	x	x	UNDP	GCF	75700	70,000
	Action 2.2.9: Procurement of generators for field, provincial and district units established under the project	x	x	x		UNDP	GCF	72200	120,000

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		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)
	Action 2.2.10: Strengthening of CC cells at national (MoCC) and sub-national (provincial and district levels): Procurement of furniture for MoCC/CC cell, CC cell KP, CC cell GB and CC cells at district levels (MoCC/ CC cell: 34,900, GB Provincial CC cell: 15,000, KP provincial CC cell: 15,000, 10 district level CC cells in GB: 40,000 and 05 district CC cells in KP: 20,000)	x	x	x	x	UNDP (MoCC, KP EPA, GB EPA)	GCF	72200	124,900
	Action 2.2.11: Strengthening of CC cells at national and sub-national (MoCC, Provincial and District level): Procurement of IT equipment for MoCC/CC cell, CC cell KP, CC cell GB and CC cells at district levels (MoCC CC cell: 44,900, GB Prov. CC cell: 25,000, KP Provincial CC cell: 25,000, 10 district CC cells in GB: 60,000, 05 District CC cells: 30,000)	x	x	x	x	UNDP (MoCC, KP EPA, GB EPA)	GCF	72800	184,900
	Indicator 2.3: No. of physical assets constructed to withstand the effects of GLOF events. Baseline 2.3: No physical structures in place to withstand the effect of GLOF events. Target 2.3: By the end of the project, at least 250 targeted engineering structures have been established to withstand the effects of GLOF events on livelihood assets.	Activity Result 2.3. Vulnerable communities have adequate long-term measures in place to address GLOF-related risks							
	Action 2.3.1: Construction of small infrastructure to reduce medium- and long-term risks of floods (gabion walls, check dams, spillways) (GB 12 structures and KP 8 structures)		x	x	x	UNDP (KP DMA and GB DMA)	GCF	72100	250,000
	Action 2.3.2: Repair and rehabilitation of irrigation systems, and installation of drip irrigation/sprinkler irrigation systems; 40 water efficient farming technologies/ irrigation systems (GB 24 Schemes and KP 16 Schemes)		x	x	x	UNDP (KP and GB Agriculture Departments (Water management directorates))	GCF	72100	150,000
	Action 2.3.3: Strengthening of District Emergency Response Cells (DERC); Procurement of emergency preparedness and response equipment and supplies (15 Districts of KP and GB)		x	x	x	UNDP	GCF	72200	400,000

EXPECTED OUTPUTS <i>And baseline, associated indicators and annual targets</i>	PLANNED ACTIVITIES <i>List activity results and associated actions</i>	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET	
		Q1	Q2	Q3	Q4		Funding Source	Budget Description Amount (US\$)
	Action 2.3.4: 02 International Study Tours for KP and GB (communities) and 2 International Study Tours for decision makers in provinces, 1 International Study Tour for decision makers at federal level and 1 International tour for technical experts from WAPDA, PMD, NDMA, PDMA, GCISC, FFC etc.		x	x	x	UNDP	GCF	71600 450,000
	Action 2.3.5: Procurement of furniture for project offices, and other units established under the project (PMU, PIU KP, PIU GB, Field Offices)		x	x		UNDP	GCF	72200 150,000
	Action 2.3.6: Procurement of IT equipment (computers, printers, projectors, UPS, peripherals, photocopier, scanner, photo-video equipment, etc.) (PMU, PIU KP, PIU GB, Field Offices)		x	x		UNDP	GCF	72800 120,000
	Action 2.3.7: Procurement of fuel for vehicles and generators		x	x	x	UNDP	GCF	73400 108,055
	Action 2.3.8: Procurement of services of maintenance of vehicles and generators (service and spare parts)		x	x	x	UNDP	GCF	73400 40,000
	Action 2.3.9: Initial and recurring repair and maintenance of office premises (PMU, PIU KP, PIU GB, 2 Field Offices)		x	x	x	UNDP	GCF	73400 226,000
	Action 2.3.10: Procurement of stationary and office supplies		x	x	x	UNDP	GCF	72500 100,000
	Activity Result 2.4. Improved financial capacities to adapt to GLOFs and CC-induced risks							
	Action-2.4.1: Consultancy (3 experts) to develop guidelines for functioning of community level revolving funds for improved financial capacity to adapt to GLOFs and CC-induced risks (micro-financing)		x	x		UNDP	GCF	71300 59,725
	Action-2.4.2: Initial capitalization of community based revolving funds (24 valleys)			x	x	UNDP	GCF	72100 240,000
Indicator 2.4. No. of small-scale community driven initiatives financed through CBDRM funds Baseline 2.4. No financial capacity of local communities to prepare and respond to GLOF events Target 2.4. By the end of the project, at least 01 community driven initiative in each of the 24 target valleys, is financed through CBDRM funds								

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES List activity results and associated actions	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET				
		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)		
Project Management	Local consultants										
	IC – Gender Strategy and Action Plan				x	x		UNDP	GCF	71300	15,000
	IC – Environmental and Social Management Plan				x	x		UNDP	GCF	71300	25,000
	Contractual services-individuals (Service Contract Modality (SC Modality))										
	Project management unit Islamabad										
	National Project Manager (1)		x		x	x	x	UNDP	GCF	71400	52,728
	M&E Officer (1)				x	x	x	UNDP	GCF	71400	41,101
	Admin & Finance Officer (1)				x	x	x	UNDP	GCF	71400	33,360
	Comms & Reporting Officer (1)		x		x	x	x	UNDP	GCF	71400	33,360
	Procurement assistant (1)				x	x	x	UNDP	GCF	71400	18,805
	Admin-Finance Assistant (1)		x		x	x	x	UNDP	GCF	71400	18,805
	Driver (2)				x	x	x	UNDP	GCF	71400	25,337
	Office help (1)				x	x	x	UNDP	GCF	71400	11,437
	Project Implementation Unit Gilgit Baltistan (PIU GB)										
	Provincial Project Coordinator				x	x	x	UNDP	GCF	71400	48,834
	Admin & Finance Assistant		x		x	x	x	UNDP	GCF	71400	18,805
	Monitoring and Evaluation Assistant (1)				x	x	x	UNDP	GCF	71400	18,805
	Driver (3)				x	x	x	UNDP	GCF	71400	38,005
	Office help (1)				x	x	x	UNDP	GCF	71400	11,437
	Project Implementation Unit Khyber Pakhtunkhwa (PIU KP)										
	Provincial Project Coordinator		x		x	x	x	UNDP	GCF	71400	48,834
	Admin & Finance Assistant		x		x	x	x	UNDP	GCF	71400	18,805
	Monitoring and Evaluation Assistant (1)				x	x	x	UNDP	GCF	71400	18,805
	Driver (3)				x	x	x	UNDP	GCF	71400	38,005
	Office help (1)				x	x	x	UNDP	GCF	71400	11,437
	Filed offices (Skardu)										
	Field Officer (1)				x	x	x	UNDP	GCF	71400	33,360
	Admin & Finance Assistant (1)				x	x	x	UNDP	GCF	71400	18,805
	Driver (1)				x	x	x	UNDP	GCF	71400	12,669
	Office help (1)				x	x	x	UNDP	GCF	71400	11,437
	Filed offices (Chitral)										
	Field Officer (1)				x	x	x	UNDP	GCF	71400	33,360
	Admin & Finance Assistant (1)				x	x	x	UNDP	GCF	71400	18,805
	Driver (1)				x	x	x	UNDP	GCF	71400	12,669
	Office help (1)				x	x	x	UNDP	GCF	71400	11,437
	IT equipment for PMU										

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		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (US\$)
	Supplies	x	x	x	x	UNDP	GCF	72500	6,000
	Quarterly Project Monitoring Visits (UNDP, IP, Donor, Stakeholders)	x	x	x	x	UNDP	GCF	71600	10,000
	Staff/Partner Training & Learning	x	x	x	x	UNDP	GCF	71600	40,000
	Field Visits (UNDP, IP, Stakeholders)	x	x	x	x	UNDP	GCF	71600	7,936
	Service to Project-GOE (DPCs)	x	x	x	x	UNDP	GCF	74500	73,420
TOTAL									6,266,757

II. Monitoring Plan 2019

Project ID: 00104582 Project Title: Scaling-up of Glacial Lake Outburst Flood (GLOF) risk reduction in Northern Pakistan

Expected Results (Outcomes & Outputs)	Indicators	Baseline	Targets	Data Collection Plan			Resources (\$)	Risks and Assumptions
				Source/Method of Collection	Schedule/Frequency	Responsible Staff		
Obtained from the CPAP and project Results Frameworks)	Obtained from the CPAP and project Results Frameworks)	At the project start date	At the project end date	Specific publication, evaluation, survey, field observation, interviews, etc.	Monthly, quarterly, annually, etc.	Staff member responsible for collecting and reporting data	Total budget for M&E for 2019= (54,000)	Any risks or assumptions concerning data collection
CPD Outcome 2: (UNSD Outcome 6): Enhanced resilience and socioeconomic development of communities.	UNSDF indicator 6.2 (IRRF outcome indicator 6.3): Economic loss from disasters as a proportion of the exposed gross domestic product	To be established	To be established	Survey and interviews	Annually	Project Manager		Availability of reports
CPD Output 6.3: Legal and regulatory frameworks and policies are in place, and institutions capacitated for the conservation, sustainable use, inclusive access and benefit-sharing of natural resources, biodiversity, chemicals, waste management and ecosystems.	CPD Output Indicator 3.3.1.1. Existence of operational end-to-end multi-sectoral early warning systems (EWS) to limit the gender-differentiated impact of (a) natural hazards; (b) health shocks (e.g. pandemics); (c) economic crises; (d) other risk factors	No	Yes	Project reports	Annually	Project Manager		Timely implementation of project interventions for installation of EWS

Expected Results (Outcomes & Outputs)	Indicators	Baseline	Targets	Data Collection Plan			Resources (\$)	Risks and Assumptions
				Source/Method of Collection	Schedule/Frequency	Responsible Staff		
CPD Output 6.4: In line with international conventions and national policy frameworks, implementation mechanisms are effectively introduced that promote sustainable use of natural resources, protect ecosystem and biodiversity and effectively manage and mitigate the threats to this process (chemicals, waster, CO2 emissions, etc.)	CPD Output indicator 1.1.2.1: Number and proportion of people accessing basic services, disaggregated by target groups: (a) poor; (b) women; (c) people with disabilities; (d) youth; (e) displaced populations; (f) other marginalised groups	Baseline: To be established.	Target (2022): 100%	Tracking of the process of approval of national and provincial CCA, DRR strategies Government reporting Sendai Framework for DRR, UNFCCC	Annually	Project Manager		Timely reporting under national and global frameworks
Project Output 1: Strengthened sub-national institutional capacities to plan and implement climate change resilient development pathways.	1.1 Strengthened institutional and regulatory systems for climate-responsive planning and development. Indicator assesses the impact of project interventions on mainstreaming climate changes issues into the planning process	Baseline 1.1 National, provincial and local disaster management institutions and development planners are unable to design, finance and analyze GLOF risk reduction measures on the basis of reliable, comprehensive information.	Target 1.1: By the end of Year 3, 100% of the national and 90% of district and community authorities in the KP and GB regions are able to prioritize and plan measures to minimize potential losses from GLOFs. By the end of the project, at least four policies have been adopted by Government to address or incorporate GLOF risk reduction.	Review of national and provincial planning and development documents	Annually	Project Manager		Budgetary allocations for climate related interventions Availability of provincial integrated CCA action plans Availability of provincial level CC coordinating entities
	1.2. Number of policies introduced to address GLOF risks or adjusted to incorporate GLOF risks.	Baseline 1.2 Only comprehensive disaster		Review of national and provincial policy documents,	Annually	Project Manager		GLOF issues are prioritized in policy discourse, as evidenced through final

Expected Results (Outcomes & Outputs)	Indicators	Baseline	Targets	Data Collection Plan				Resources (\$)	Risks and Assumptions
				Source/Method of Collection	Schedule/Frequency	Responsible Staff			
Project Output 2: Community-based EWS and long-term measures are up-scaled to increase communities' adaptive capacity.	Indicator assesses the extent of integration of GLOF issues into policy documents	management guidelines exist for the KP and GB regions.		strategies and action plans					policy documents Budgetary allocation for GLOF related risks
	2.1. Number of vulnerable households in KP and GB covered by a GLOF early warning system. Indicator assesses the # of vulnerable households covered by GLOF EWS	Baseline 2.1. Vulnerable households are not able to receive and react to GLOF early warning messages.	Target 2.1 By the end of Year 3 of the project, 9 GLOF early warning systems are installed in KP and GB and 40% of households in target communities are able to receive and respond to early warnings and take appropriate actions following the warning (139,268 men, 139,268 women) By the end of the project, 100% of households in target communities are able to receive and respond to early warnings and take the appropriate actions following the warning. (696,342 people: 348,171 men, 348,171 women)	PMD and NDMA reports Review of project activity reports	Annually	Project Manager		Technical specifications of installed equipment (range) Loss & Damage Assessments Project Monitoring Missions	
	2.2. Number of	Baseline 2.2	Target 2.2.	Project	Annually	Project			
									Post-training

Expected Results (Outcomes & Outputs)	Indicators	Baseline	Targets	Data Collection Plan				Resources (\$)	Risks and Assumptions
				Source/Method of Collection	Schedule/Frequency	Responsible Staff			
	Community-based organizations trained in the operation and maintenance of the EWS. Indicator assesses the number of CBOs trained in using and maintaining the EWS	2 GLOF early warning system for KP and GB in place.	By the end of Year 3 of the project, at least 9 CBOs are trained in the operation and maintenance of the EWS and ensure its continued functionality By the end of the project, at least 24 CBOs are trained in the operation and maintenance of the EWS and ensure its continued functionality.	Activity Reports		Manager		evaluation reports	
	2.3. No. of physical assets constructed to withstand the effects of GLOF events. Indicator assesses the quantity of physical infrastructure built by the project	Baseline 2.3 No physical structures in place to withstand the effect of GLOF events.	Target 2.3. By the end of Year 3 of the project, at least 100 targeted engineering structures have been established to withstand the effects of GLOF events on livelihood assets By the end of the project, at least 250 targeted engineering structures have been established to	Project Activity Reports	Annually	Project Manager		Procurement Plan Field monitoring visits	

Expected Results (Outcomes & Outputs)	Indicators	Baseline	Targets	Data Collection Plan				Resources (\$)	Risks and Assumptions
				Source/Method of Collection	Schedule/Frequency	Responsible Staff			
			withstand the effects of GLOF events on livelihood assets.						
	Indicator 2.4 2.4. No. of small-scale community driven initiatives for GLOF preparedness financed through CBDRM funds	Baseline 2.4 No financial capacity of local communities to prepare for GLOF events	Target 2.4 By the end of Year 3 of the project, at least 12 small-scale community driven initiatives financed through CBDRM funds By the end of the project, at least 01 community driven initiative in each of the 24 target valleys, is financed through CBDRM funds	Project Activity Reports	Annually	Project Manager			Field Reports APR

Mandatory GCF M&E Requirements and M&E Budget for 2019

GCF M&E requirements	Primary responsibility	Indicative costs to be charged to the Project Budget ¹ (US\$)		Time frame
		GCF grant	Co-financing	
Inception Workshop (KP Launch)	UNDP Country Office	USD 15,000	None	March, 2019
Standard UNDP monitoring and reporting requirements as outlined in the UNDP POPP	UNDP Country Office	None	None	Quarterly, annually
Monitoring of indicators in project results framework	Project Manager	Per year: USD 10,000	None	Annually
Annual Project Report	Project Manager and UNDP Country Office and UNDP-GEF team	None	None	Annually
NIM Audit as per UNDP audit policies	UNDP Country Office	Per year: USD 3,000 – 5,000	None	Annually or other frequency as per UNDP Audit policies
Lessons learned, case studies, and knowledge generation	Project Manager, UNDP CO	Per year: USD 3,000	None	Annually
Monitoring of environmental and social risks, and corresponding management plans as relevant	Project Manager, Safeguards Officer, UNDP CO	Per year: USD 5,000	None	On-going
Monitoring of gender action plan	Project Manager, UNDP CO	Per year: USD 4,000	None	On-going
Monitoring of stakeholder engagement plan	Project Manager, UNDP CO	Per year: USD 4,000	None	On-going
Addressing environmental and social grievances	Project Manager, UNDP CO, BPPS as needed	Per year: USD 5,000	None	On-going
Project Board/Project Steering Committee meetings	Project Board, UNDP CO, Project Manager	Per year: USD 5,000	None	At minimum annually
Supervision missions	UNDP Country Office	None ²	None	Two per year
Oversight missions	UNDP-GEF team	None ²	None	Troubleshooting as needed

¹ Excluding project team staff time and UNDP staff time and travel expenses.

² The costs of UNDP Country Office and UNDP-GEF Unit's participation and time are charged to the GCF Agency Fee.

III. Recruitment Plan 2019

Project ID: 00104582 Project Title: Scaling-up of Glacial Lake Outburst Flood (GLOF) risk reduction in Northern Pakistan

#	Post Title	National/ International	Level of Post ³	Proforma Cost per year (US\$)	Responsible party (UNDP/EAD/ IP/PMU etc)	Contract Modality (TA/FTA/SC / NIMU/Govt)	Reporting to/ Supervisor	Duty Station	Contract Start Date	Contract End Date
1.	M&E Officer	National	SB-4/2	41,101	UNDP	SC	NPM	Islamabad	01-APR- 2019	31-MAR- 2020
2.	Admin/Finance Officer	National	SB-4/1	33,360	UNDP	SC	NPM	Islamabad	01-APR- 2019	31-MAR- 2020
4.	Procurement assistant (PMU) (1)	National	SB-3/1	18,805	UNDP	SC	NPM	Islamabad	01-APR- 2019	31-MAR- 2020
5.	Drivers (PMU, PIUs and FOs) (10)	National	SB-1/2	12,669	UNDP	SC	NPM, PPC	Islamabad Abbottabad/ Mansehra, Chitral, Gilgit, Skardu	01-APR- 2019	31-MAR- 2020
6.	Office Help (PMU, PIUs) (3)	National	SB-1/1	11,437	UNDP	SC	NPM, PPC	Islamabad Abbottabad/ Mansehra, Chitral, Gilgit, Skardu	01-APR- 2019	31-MAR- 2020
7.	Admin/Finance Assistant (FOs) (2)	National	SB-3/1	18,805	UNDP	SC	FO	Skardu, Chitral	01-APR- 2019	31-MAR- 2020
8.	Provincial Project Coordinator-GB (1)	National	SB-4/3	48,834	UNDP	SC	NPM	Gilgit	01-APR- 2019	31-MAR- 2020
9.	Field Officers (2)	National	SB-4/1	33,360	UNDP	SC	NPM	Skardu, Chitral	01-APR- 2019	31-MAR- 2020
10.	M&E Assistant (2)	National	SB-3/1	18,805	UNDP	SC	PPC	Abbottabad/ Mansehra Gilgit	01-APR- 2019	31-MAR- 2020
11.	Office Help (FOs) (2)	National	SB-1/1	11,437	UNDP	SC	NPM, PPC	Skardu, Chitral	01-APR- 2019	31-MAR- 2020

³ The pro-forma costs were estimated based on existing salary scales, which are subject to revision as per UNDP HR rules.

IV. Procurement Plan 2019

Project ID: 00104582 Project Title: Scaling-up of Glacial Lake Outburst Flood (GLOF) risk reduction in Northern Pakistan

No.	Description	Type (good, service, works)	Estimated Budget (\$)	Responsible party (UNDP/EAD/IP/PMU etc)	Invitation Type (EFP, RFA, ITB, etc)	Announcement Target Date	Evaluation Target Date	Committee Review (CAP, RACP, etc)	Committee Review Target Date	Contract Start Date	Contract End Date	Responsible project staff
1	Consultancy (3 experts/year) for conducting Knowledge, Aptitude and Practices as well as documenting local/indigenous knowledge in 15 districts	Services	60,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter3	NPM/AFO
2	Consultancy (4) for stakeholder need and capacity assessments at national, provincial and district levels	Services	60,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter3	NPM/AFO
3	Consultancy (4 experts) for Hazard, Vulnerability Risk Assessment of all target valleys and districts in KP and GB, in line with developed criteria for HVRA	Services	60,000	P&D (GBDMA and KPDMMA)	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
4	Consultancy (01 expert) to study and explore significant glaciers in the target areas as an eco-tourism potential for diversification of livelihoods as climate change adaptation measure;	Services	15,000	UNDP	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
5	Consultancy (3 experts) for identification and preparation of an integrated provincial Climate Change Adaptation Action Plan	Services	45,000	UNDP	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
6	Consultancy - National Technical/ climate change expert	Services	44,880	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
7	Consultancy - Safeguards specialist	Services	25,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
8	Consultancy - Glaciologist	Services	15,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
9	Consultancy - Climatologist/meteorologist	Services	10,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
10	Consultancy - Agriculture expert	Services	10,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO

No.	Description	Type (good, service, works)	Estimated Budget (\$)	Responsible party (UNDP/EAD/IP/PMU etc)	Invitation Type (EFP, RFA, ITB, etc)	Announcement Target Date	Evaluation Target Date	Committee Review (CAP, RACP, etc)	Committee Review Target Date	Contract Start Date	Contract End Date	Responsible project staff
11	Consultancy (2 experts) for updating of glacier inventory of Pakistan	Services	40,000	PMD	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
12	Consultancy to conduct bio-engineering feasibility studies (2 experts)	Services	35,000	UNDP	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
13	Consultancy - 4 experts (forest, slope stabilization, rangelands, biodiversity) for conducting forest surveys	Services	60,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
14	Consultancy-GIS Mapping of Hazard community (Contractual services-companies for GIS mapping of potential hazard locations (lakes) and selection of project sites/interventions (KP)	Services	25,000	P&D (KPDMA/KP EPA)	RFP	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
15	Consultancy-GIS Mapping of Hazard community (Contractual services-companies for GIS mapping of potential hazard locations (lakes) and selection of project sites/interventions (GB)	Services	25,000	P&D (GBDMA/GB EPA)	RFP	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
16	Functional review of climate change cells at National and provincial levels, design & layout	Services	10,000	UNDP	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
17	Contract for professional services to develop GLOF pre-implementation documentary	Services	45,000	UNDP	RFP	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter2	NPM/AFO
18	Design and roll-out of the national and sub-national project web-site (consultancy firm)	Services	13,000	UNDP	RFP	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter2	NPM/AFO
19	Contract for professional services for design and printing of visibility and outreach material	Services	45,000	UNDP	RFQ	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO

No.	Description	Type (good, service, works)	Estimated Budget (\$)	Responsible party (UNDP/EAD/IP/PMU etc)	Invitation Type (EFP, RFA, ITB, etc)	Announcement Target Date	Evaluation Target Date	Committee Review (CAP, RACP, etc)	Committee Review Target Date	Contract Start Date	Contract End Date	Responsible project staff
20	Contract for professional services for media awareness campaign (Press-conferences, media-tours, project expos, seminars, TV/radio/online outreach, etc.)	Services	56,000	UNDP	RFP	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
21	Procurement of print space and production of articles/materials	Services	25,089	UNDP	RFQ	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
22	Contract for professional service rental and maintenance of office premises	Services	120,000	UNDP	RFP	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
23	Contract for professional services for security Guard services for rented premises (7 security guards) and other security measures	Services	65,000	UNDP	RFQ	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
24	Procurement of IT equipment for PMUs, PIUs and FOS	Goods	20,000	UNDP	RFQ	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter2	NPM/AFO
25	Procurement of 40 KVA Generator for PMU with installation	Goods	40,000	UNDP	RFQ	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter2	NPM/AFO
26	Procurement of 10 vehicles (01 Toyota sedan, 09 double cabin 4x4 pickups)	Goods	360,000	UNDP	ITB	Quarter2	Quarter2	RACP	Quarter2	Quarter2	Quarter3	NPM/AFO
27	Ground-truthing baseline surveys against GIS mapping of high-risk vulnerable areas and selection of project sites/interventions in KP (Consultancy-2 experts)	Services	30,000	KPDMA/ KP EPA	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
28	Ground-truthing baseline surveys against GIS mapping of high-risk vulnerable areas and selection of project sites/interventions in GB (Consultancy-2 experts)	Services	30,000	GBDMA/GB EPA	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
29	Conduct feasibility studies for installation of EWS/AWS equipment and devices in KP and GB (Consultancy -4 experts)	Services	60,000	PMD	IC	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO

No.	Description	Type (good, service, works)	Estimated Budget (\$)	Responsible party (UNDP/EAD/IP/PMU etc)	Invitation Type (EFP, RFA, ITB, etc)	Announcement Target Date	Evaluation Target Date	Committee Review (CAP, RACP, etc)	Committee Review Target Date	Contract Start Date	Contract End Date	Responsible project staff
30	Consultancy for establishment (2 experts) and initial running (5 experts – 6 months) of GLOF/CC digital library and knowledge repository at national, provincial and district level offices (specific locations to be determined), connected to national GIS system and database) and relevant departments (PMD, KPDM, GBDMA KPEPA and GBEP)	Services	100,000	UNDP	RFP	Quarter1	Quarter1	CAP	Quarter1	Quarter1	Quarter3	NPM/AFO
31	Equipment, resource material and fixtures for establishment of a digital library and knowledge repository	Goods	70,000	UNDP	RFP	Quarter1	Quarter1	CAP	Quarter1	Quarter1	Quarter3	NPM/AFO
32	Contract for professional services for Broadcasts of GLOF project documentaries, expert programmes on national/international and private TV networks	Services	70,000	UNDP	RFQ	Quarter2	Quarter2	N/A	N/A	Quarter2	Quarter4	NPM/AFO
33	Contract for professional services for GLOF public awareness print material at provincial, district and valley level (banners, posters, bill-boards, sign boards, brochures, pamphlets, etc.)	Services	100,000	UNDP	RFQ	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
34	Contract for professional services for National GLOF Web-site/ web portal developed and connected to PMD, Agriculture, NDMA/PDMA, MoCC, Brochures, pamphlets, etc.)	Services	50,000	UNDP	RFP	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter3	NPM/AFO

No.	Description	Type (good, service, works)	Estimated Budget (\$)	Responsible party (UNDP/EAD/IP/PMU etc)	Invitation Type (EFP, RFA, ITB, etc)	Announcement Target Date	Evaluation Target Date	Committee Review (CAP, RACP, etc)	Committee Review Target Date	Contract Start Date	Contract End Date	Responsible project staff
35	Contract for professional services for Stakeholders' communication and coordination workshops organized at national, provincial level to share project success stories, challenges and way forward (6 workshops -one each at national, provincial and district level)	Services	110,000	UNDP	RFP	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO
36	Contract for professional services for awareness workshops delivered at targeted National and sub-national school, community (15 Number)	Services	70,000	UNDP	RFP	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO
37	Procurement of generators for field, provincial and district units established under the project	Goods	120,000	UNDP	RFQ	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO
38	Procurement of furniture for MoCC/CC cell, CC KP, CC GB	Goods	124,900	MoCC/KP EPA/ GB EPA	ITB	Quarter1	Quarter1	CAP	Quarter1	Quarter1	Quarter2	NPM/AFO
39	Procurement of IT equipment for MoCC/CC cell, CC KP, CC GB	Goods	184,900	MoCC/KP EPA/ GB EPA	ITB	Quarter1	Quarter1	CAP	Quarter1	Quarter1	Quarter2	NPM/AFO
40	Contract for civil works for construction of small infrastructure to reduce medium- and long-term risks of floods (gabion walls, check dams, spillways) (KP)	Civil work	100,000	KPDMA	ITB	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO
41	Contract for civil works for construction of small infrastructure to reduce medium- and long-term risks of floods (gabion walls, check dams, spillways) (GB)	Civil work	150,000	GBDMA	ITB	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO

No.	Description	Type (good, service, works)	Estimated Budget (\$)	Responsible party (UNDP/EAD/IP/PMU etc)	Invitation Type (EFP, RFA, ITB, etc)	Announcement Target Date	Evaluation Target Date	Committee Review (CAP, RACP, etc)	Committee Review Target Date	Contract Start Date	Contract End Date	Responsible project staff
42	Contract for civil works for repair and rehabilitation of irrigation systems, and installation of drip irrigation/sprinkler irrigation systems (KP)	Civil work	60,000	KP Agriculture department (water management directorate)	ITB	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO
43	Contract for civil works for repair and rehabilitation of irrigation systems, and installation of drip irrigation/sprinkler irrigation systems (GB)	Civil work	90,000	GB Agriculture department (water management directorate)	ITB	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO
44	Procurement of emergency preparedness and response equipment and supplies (15 Districts of KP and GB)	Goods	400,000	UNDP	ITB	Quarter2	Quarter2	RACP	Quarter2	Quarter2	Quarter4	NPM/AFO
45	02 International Study Tours for KP and GB (communities) and 02 International Study Tours for decision makers in provinces, 01 International Study Tour for decision makers at federal level and 01 International tour for technical experts from WAPDA, PMD, NDMA, PDMA, GCISC, FFC etc.	Services	450,000	UNDP	RFP	Quarter2	Quarter2	CAP	Quarter2	Quarter2	Quarter4	NPM/AFO
46	Procurement of office furniture for project offices, and other units established under the project (PMU, PIU KP, PIU GB, Field Offices)	Goods	150,000	UNDP	ITB	Quarter1	Quarter1	CAP	Quarter1	Quarter1	Quarter3	NPM/AFO
47	Procurement of IT equipment (computers, printers, projectors, UPS, peripherals, photocopier, scanner, photo-video equipment, etc.) (PMU, PIU KP, PIU GB, Field Offices)	Goods	120,000	UNDP	ITB	Quarter1	Quarter1	RACP	Quarter1	Quarter1	Quarter3	NPM/AFO
48	Procurement of fuel for vehicles and generators	Services	108,055	UNDP	RFQ	Quarter1	Quarter1	CAP	Quarter1	Quarter1	Quarter4	NPM/AFO

No.	Description	Type (good, service, works)	Estimated Budget (\$)	Responsible party (UNDP/EAD/IP/PMU etc)	Invitation Type (EFP, RFA, ITB, etc)	Announcement Target Date	Evaluation Target Date	Committee Review (CAP, RACP, etc)	Committee Review Target Date	Contract Start Date	Contract End Date	Responsible project staff
49	Procurement of services of maintenance of vehicles and generators	Services	40,000	UNDP	RFQ	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
50	Initial and recurring repair and maintenance of office premises (PMU, PIU KP, PIU GB, 2 Field Offices)	Services	226,000	UNDP	ITB	Quarter1	Quarter1	RACP	Quarter1	Quarter1	Quarter4	NPM/AFO
51	Procurement of stationary and office supplies	Services	100,000	UNDP	RFQ	Quarter1	Quarter1	CAP	Quarter1	Quarter1	Quarter4	NPM/AFO
52	Consultancy (3 experts) to develop guidelines for functioning of community level revolving funds for improved financial capacity to adapt to GLOFs and CC-induced risks (micro-financing)	Services	59,725	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
53	IC-Gender Strategy & Action Plan	Services	15,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO
54	IC-Environmental and Social Management Plan	Services	25,000	UNDP	IC	Quarter1	Quarter1	N/A	N/A	Quarter1	Quarter4	NPM/AFO

V. Management Arrangements

i. Roles and responsibilities of the project's governance mechanism:

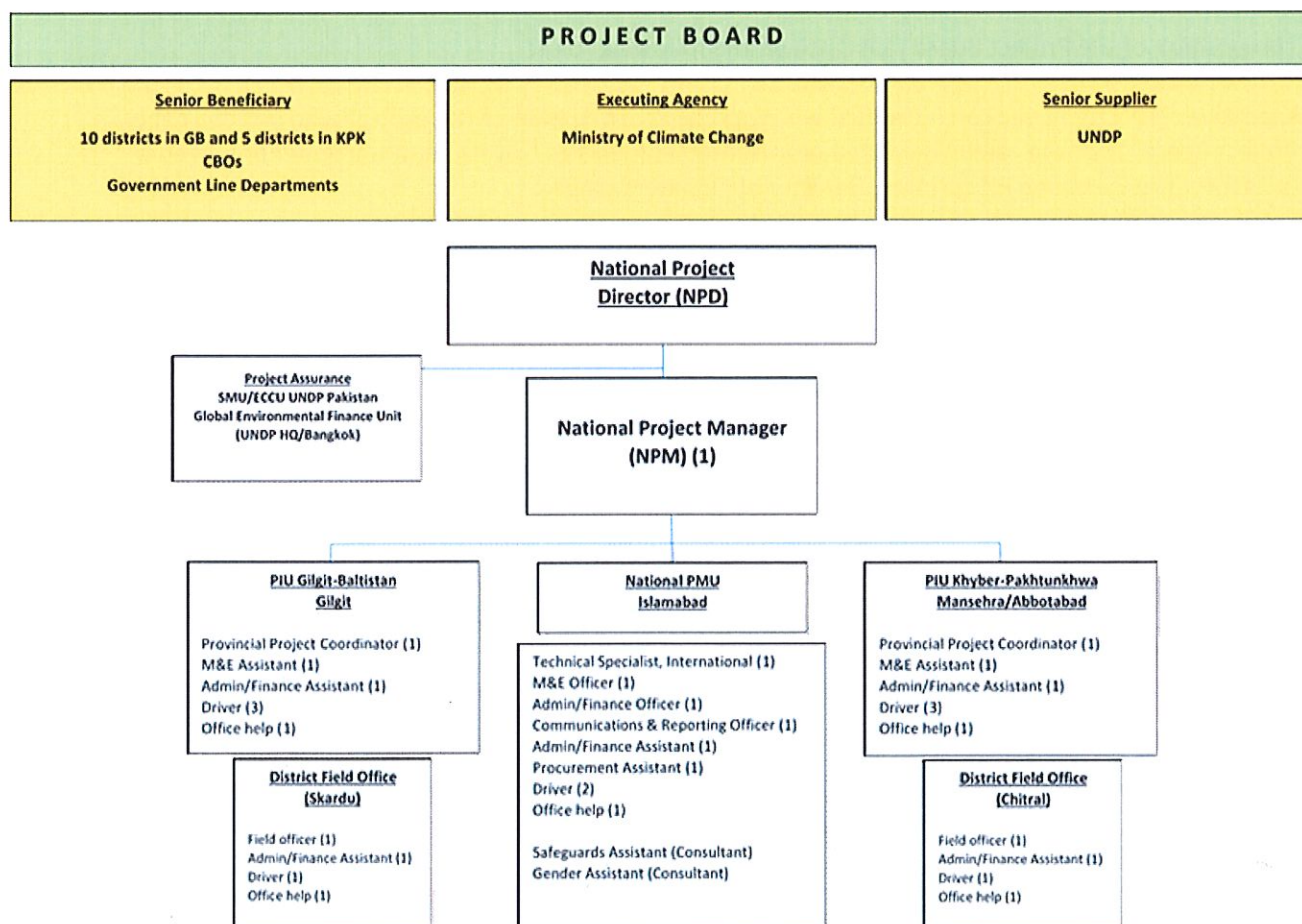
The project will be implemented following UNDP's national implementation modality (NIM), according to the *Supplemental Provisions* (under the United Nations Special Fund) between UNDP and the Government of Pakistan, the Country Programme Action Plan (CPAP), as well as policies and procedures outlined in the UNDP Programme and Operations Policies and Procedures (POPP) and NIM Guidelines. The Implementing Partner has requested UNDP to provide support services to implement the project in compliance with UNDP rules and regulations, policies and procedures.

The **Implementing Partner** for this project is the Ministry of Climate Change, Government of Pakistan. The Implementing Partner is responsible and accountable for managing this project, including the monitoring and evaluation of project interventions, achieving project outcomes, and for the effective use of UNDP/GCF resources.

The Implementing Partner is responsible for:

- Approving and signing multi-year work plans
- Approving and signing the combined delivery report at the end of the year; and
- Signing the financial report or the funding authorization and certificate of expenditures

The project organisation structure is as follows:



Project Board: The Project Board (also called Project Steering Committee) is responsible for making by consensus, management decisions when guidance is required by the Project Manager, including recommendations for UNDP/Implementing Partner approval of project plans and revisions. In order to ensure UNDP's ultimate accountability, Project Board decisions should be made in accordance with standards that shall ensure management for development results, best value money, fairness, integrity, transparency and effective international competition. In case a consensus cannot be reached within the Board, final decision shall rest with the UNDP Programme Manager (UNDP Resident Representative).

Specific responsibilities of the Project Board include:

- Provide overall guidance and direction to the project, ensuring it remains within any specified constraints;
- Address project issues as raised by the project manager;
- Provide guidance on new project risks, and agree on possible countermeasures and management actions to address specific risks;
- Agree on project manager's tolerances as required;
- Review the project progress, and provide direction and recommendations to ensure that the agreed deliverables are produced satisfactorily according to plans;
- Appraise the annual project implementation report, including the quality assessment rating report; make recommendations for the work-plan;
- Provide ad hoc direction and advice for exceptional situations when the project manager's tolerances are exceeded; and
- Assess and decide to proceed on project changes through appropriate revisions.

The composition of the Project Board must include the following roles:

- 1) **Executive:** The Executive is an individual who represents ownership of the project who will chair the Project Board. This role can be held by a representative from the Government Implementing Agency or UNDP. The Executive is Secretary, Ministry of Climate Change.

The Executive is ultimately responsible for the project, supported by the Senior Beneficiary and Senior Supplier. The Executive's role is to ensure that the project is focused throughout its life cycle on achieving its objectives and delivering outputs that will contribute to higher level outcomes. The executive has to ensure that the project gives value for money, ensuring cost-conscious approach to the project, balancing the demands of beneficiary and supplier.

Specific Responsibilities: (as part of the above responsibilities for the Project Board)

- Ensure that there is a coherent project organisation structure and logical set of plans;
 - Set tolerances in the AWP and other plans as required for the Project Manager;
 - Monitor and control the progress of the project at a strategic level;
 - Ensure that risks are being tracked and mitigated as effectively as possible;
 - Brief relevant stakeholders about project progress;
 - Organise and chair Project Board meetings.
- 2) **Senior Supplier:** The Senior Supplier is an individual or group representing the interests of the parties concerned which provide funding and/or technical expertise to the project (designing, developing, facilitating, procuring, implementing). The Senior Supplier's primary function within the Board is to provide guidance regarding the technical feasibility of the project. The Senior Supplier role must have the authority to commit or acquire supplier resources required. If necessary, more

than one person may be required for this role. Typically, the implementing partner, UNDP and/or donor(s) would be represented under this role. The Senior Supplier is: UNDP Pakistan.

Specific Responsibilities (as part of the above responsibilities for the Project Board)

- Make sure that progress towards the outputs remains consistent from the supplier perspective;
- Promote and maintain focus on the expected project output(s) from the point of view of supplier management;
- Ensure that the supplier resources required for the project are made available;
- Contribute supplier opinions on Project Board decisions on whether to implement recommendations on proposed changes;
- Arbitrate on, and ensure resolution of, any supplier priority or resource conflicts.

- 3) **Senior Beneficiary:** The Senior Beneficiary is an individual or group of individuals representing the interests of those who will ultimately benefit from the project. The Senior Beneficiary's primary function within the Board is to ensure the realization of project results from the perspective of project beneficiaries. The Senior Beneficiary role is held by a representative of the government or civil society. The Senior Beneficiary is: Governments of Gilgit-Baltistan and Khyber Pakhtunkhwa.

The Senior Beneficiary is responsible for validating the needs and for monitoring that the solution will meet those needs within the constraints of the project. The Senior Beneficiary role monitors progress against targets and quality criteria. This role may require more than one person to cover all the beneficiary interests. For the sake of effectiveness, the role should not be split between too many people.

Specific Responsibilities (as part of the above responsibilities for the Project Board)

- Prioritize and contribute beneficiaries' opinions on Project Board decisions on whether to implement recommendations on proposed changes;
- Specification of the Beneficiary's needs is accurate, complete and unambiguous;
- Implementation of activities at all stages is monitored to ensure that they will meet the beneficiary's needs and are progressing towards that target;
- Impact of potential changes is evaluated from the beneficiary point of view;
- Risks to the beneficiaries are frequently monitored.

Project Manager: The Project Manager has the authority to run the project on a day-to-day basis on behalf of the Project Board within the constraints laid down by the Board. The Project Manager is responsible for day-to-day management and decision-making for the project. The Project Manager's prime responsibility is to ensure that the project produces the results specified in the project document, to the required standard of quality and within the specified constraints of time and cost.

The Implementing Partner appoints the Project Manager, who should be different from the Implementing Partner's representative in the Project Board.

Specific responsibilities include:

- Provide direction and guidance to project team(s)/ responsible party (ies);
- Liaise with the Project Board to assure the overall direction and integrity of the project;
- Identify and obtain any support and advice required for the management, planning and control of the project;
- Responsible for project administration;



- Plan the activities of the project and monitor progress against the project results framework and the approved annual workplan;
- Mobilize personnel, goods and services, training and micro-capital grants to initiative activities, including drafting terms of reference and work specifications, and overseeing all contractors' work;
- Monitor events as determined in the project monitoring schedule plan/timetable, and update the plan as required;
- Manage requests for the provision of financial resources by UNDP, through advance of funds, direct payments or reimbursement using the fund authorization and certificate of expenditures;
- Monitor financial resources and accounting to ensure the accuracy and reliability of financial reports;
- Be responsible for preparing and submitting financial reports to UNDP on a quarterly basis;
- Manage and monitor the project risks initially identified and submit new risks to the project board for consideration and decision on possible actions if required; update the status of these risks by maintaining the project risks log;
- Capture lessons learned during project implementation;
- Prepare the annual workplan for the following year; and update the Atlas Project Management module if external access is made available.
- Prepare the Annual Project Report and submit the final report to the Project Board;
- Based on the Annual Project Report and the Project Board review, prepare the AWP for the following year.
- Ensure the mid-term review process is undertaken as per the UNDP guidance, and submit the final MTR report to the Project Board.
- Identify follow-on actions and submit them for consideration to the Project Board;
- Ensure the terminal evaluation process is undertaken as per the UNDP guidance, and submit the final TE report to the Project Board;

Project Assurance: UNDP provides a three – tier supervision, oversight and quality assurance role – funded by the agency fee – involving UNDP staff in Country Offices and at regional and headquarters levels. Project Assurance must be totally independent of the Project Management function. The quality assurance role supports the Project Board and Project Management Unit by carrying out objective and independent project oversight and monitoring functions. This role ensures appropriate project management milestones are managed and completed. The Project Board cannot delegate any of its quality assurance responsibilities to the Project Manager. This project oversight and quality assurance role is covered by the accredited entity fee provided by the GCF.

As an Accredited Entity to the GCF, UNDP delivers the following GCF-specific oversight and quality assurance services: (i) day to day project oversight supervision covering the start-up and implementation; (ii) oversight of project completion; and (iii) oversight of project reporting. A detailed list of the services is presented in the table below.

Function	Detailed description of activity	Typical GCF fee breakdown
Day-to-day oversight supervision	1. Project start-up: <ul style="list-style-type: none"> • In the case of Full Funding Proposals, prepare all the necessary documentation for the negotiation and execution of the Funding Activity Agreement (for the project) with the GCF, including all 	70%

Function	Detailed description of activity	Typical GCF fee breakdown
	<p>schedules</p> <ul style="list-style-type: none"> • In the case of readiness proposals, if needed assist the NDA and/or government partners prepare all the necessary documentation for approval of a readiness grant proposal • Prepare the Project Document with the government counterparts • Technical and financial clearance for the Project Document • Organize Local Project Appraisal Committee • Project document signature • Ensure quick project start and first disbursement • Hire project management unit staff • Coordinate/prepare the project inception workshop • Oversee finalization of the project inception workshop report <p>2. Project implementation:</p> <ul style="list-style-type: none"> • <u>Project Board</u>: Coordinate/prepare/attend annual Project Board Meetings • <u>Annual work plans</u>: Quality assurance of annual work plans prepared by the project team; issue UNDP annual work plan; strict monitoring of the implementation of the work plan and the project timetable according to the conditions of the FAA and disbursement schedule (or in the case of readiness the approved readiness proposal) • <u>Prepare GCF/UNDP annual project report</u>: review input provided by Project Manager/team; provide specialized technical support and complete required sections • <u>Portfolio Report (readiness)</u>: Prepare and review a Portfolio Report of all readiness activities done by UNDP in line with Clause 9.02 of the Readiness Framework Agreement. • <u>Procurement plan</u>: Monitor the implementation of the project procurement plan • <u>Supervision missions</u>: Participate in and support in-country GCF visits/learning mission/site visits; conduct annual supervision/oversight site missions • <u>Interim Independent Evaluation Report</u>: Initiate, coordinate, finalize the project interim evaluation report and management response • <u>Risk management and troubleshooting</u>: Ensure that risks are properly managed, and that the risk log in Atlas (UNDP financial management system) is regularly updated; Troubleshooting project missions from the regional technical advisors or management and programme support unit staff as and when necessary (i.e. high risk, slow performing projects) • <u>Project budget</u>: Provide quality assurance of project budget and financial transactions according to UNDP and GCF policies • <u>Performance management of staff</u>: where UNDP supervises or co- 	

Function	Detailed description of activity	Typical GCF fee breakdown
	supervises project staff <ul style="list-style-type: none"> • <u>Corporate level policy functions</u>: Overall fiduciary and financial policies, accountability and oversight; Treasury Functions including banking information and arrangements and cash management; Travel services, asset management, and procurement policies and support; Management and oversight of the audit exercise for all GCF projects; Information Systems and Technology provision, maintenance and support; Legal advice and contracting/procurement support policy advice; Strategic Human Resources Management and related entitlement administration; Office of Audit and Investigations oversight/investigations into allegations of misconduct, corruption, wrongdoing and fraud; and social and environmental compliance unit and grievance mechanism. 	
Oversight of project completion	<ul style="list-style-type: none"> • Initiate, coordinate, finalize the Project Completion Report, Final Independent Evaluation Report and management response • Quality assurance of final evaluation report and management response • Independent Evaluation Office assessment of final evaluation reports; evaluation guidance and standard setting • Quality assurance of final cumulative budget implementation and reporting to the GCF • Return of any un-spent GCF resources to the GCF 	10%
Oversight of project reporting	<ul style="list-style-type: none"> • Quality assurance of the project interim evaluation report and management response • Technical review of project reports: quality assurance and technical inputs in relevant project reports • Quality assurance of the GCF annual project report • Preparation and certification of UNDP annual financial statements and donor reports • Prepare and submit fund specific financial reports 	20%
	TOTAL	100%

- i. Direct Project Services as requested by Government: UNDP and the Government, represented by the Ministry of Climate Change, the Implementing Partner for “Scaling-up of Glacial Lake Outburst Flood risk reduction in Northern Pakistan” project, have agreed that the UNDP Country Office will provide support services for the implementation of the project (support services to NIM). UNDP Country Office will provide support services for assistance with procurement of goods services, financial support services, administration and logistics, HR services and technical support services: in providing such support services, UNDP shall ensure that the capacity of the Implementing Partner (Ministry of Climate Change) is strengthened to enable it to carry out such activities directly. The costs incurred by the UNDP Country Office in providing such support services shall be recovered from the project budget. To ensure the strict independence required by the GCF and in accordance with the UNDP Internal Control Framework, these execution

services should be delivered independent from the GCF-specific oversight and quality assurance services (i.e. not done by same person to avoid conflict of interest).

Procurement, financial and HR services, administration and logistics support will include procurement of goods and services for the project, logistics, financial support services in relation to project related payments in accordance with UNDP regulations, rules, policies and procedures. Technical assistance will include substantive technical analysis on issues related to project interventions across all project components, facilitating dialogue and coordination with development partners and other UN agencies, and aligning project results with SDGs and other international frameworks (Sendai Framework for Disaster Risk Reduction, UNFCCC, Paris Agreement, etc.), technical inputs into GLOF risk reduction measures, development of provincial Climate Change Adaptation Action Plans, mainstreaming gender empowerment across project interventions, synthesize of lessons learned, replication of best practices, peer review of inception, monitoring and evaluation reports and technical deliverables produced by the project and provide substantive guidance and support in development of knowledge products.

These execution services will be charged to the project budget in accordance with the [UNDP's Harmonized Conceptual Funding Framework and Cost Recovery Methodology](#). The letter of agreement for these direct project costs is included in [Annex 2](#) to the project document.

ii. Project Management Unit:

Given the scale and complexity of the proposed project, the management arrangements have been discussed between UNDP and the Implementing Partner, the Ministry of Climate Change to identify the management structure for the project, guided by the experience of the pilot phase of the project (GLOF-I, funded by Adaptation Fund). Based on these consultations, the project organization structure was revised during the Local Project Appraisal Committee (LPAC) meeting in June 2017. Key changes included reduction of proposed field offices and associated staff, as it was non-practical and costly to maintain staff and office in every project district. Reduction in numbers of staff was also necessary to accommodate staff salaries under the Letter of Agreement (LoA), as UNDP's Service Contracts (SC) salary scales are higher than NIM contracts (Government salary scales), which would apply if the project was implemented without support services of UNDP. Moreover, the project organization structure reflected costs during project preparation in 2016, and year-to-year increases in salary scales also had to be reflected.

Hence, a national Project Management Unit (PMU) will be established in Islamabad, along with two Provincial Implementation Units (PIUs) in Abbottabad (or Mansehra), Khyber Pakhtunkhwa and Gilgit, Gilgit-Baltistan, along with two field offices (Chitral in Khyber Pakhtunkhwa and Skardu in Gilgit-Baltistan). As per recommendations of the first Project Steering Committee (July 2018), the location of one of the project offices in KP was recommended to be established in Hazara Division (in Abbottabad or Mansehra).

VI. Planning, Monitoring and Reporting

The project will follow the following planning, monitoring and reporting cycle during the year.

Timeline /Target Date	Activity	Primary Responsibility
January, 2019	Preparation and approval of the Annual Work Plan 2019	Project Manager, Technical Specialist
31 March 2019 30 June 2019 30 September 2019	Quarterly Progress Reports, including: a) Report on project progress and financial delivery b) Update of Issue Log in Atlas (tracking and resolution of potential problems or requests for change) c) Update of Risk Log (Reviewing of external environment that may affect project implementation)	Project Manager Programme Officer
June, 2019	Project Board Meeting (mid-year review of project progress)	Project Manager
1 November, 2019	Prepare draft AWP 2020 and budget and present at UNDP annual retreat	Project Manager
24 November, 2019	Review of AWP for quality assurance, alignment with CPAP and UNDP and GCF priorities, results orientation and resource availability	ARR UNDP, Technical Specialist and Programme Officer
1 December, 2019	Project Board Meeting a) Review of project contribution to results and financial delivery in 2019 b) Review and endorsement of AWP 2020	Project Manager
16 December, 2019	Submit signed AWP and, where applicable in NIM projects, Letter of Service, to UNDP for final review and signature by UNDP	Project Manager
December, 2019	Submit Annual Progress Report 2020, including project contribution to outcomes, outputs, activities and financial delivery and lessons-learned	Project Manager

VII. Legal Context

The project document shall be the instrument envisaged and defined in the Supplemental Provisions to the Project Document, attached hereto and forming an integral part hereof, as “the Project Document”.

This project will be implemented by the Ministry of Climate Change (“Implementing Partner”) in accordance with its financial regulations, rules, practices and procedures only to the extent that they do not contravene the principles of the Financial Regulations and Rules of UNDP. Where the financial governance of an Implementing Partner does not provide the required guidance to ensure best value for money, fairness, integrity, transparency, and effective international competition, the financial governance of UNDP shall apply.

Additional legal conditions

Any designations on maps or other references employed in this project document do not imply the expression of any opinion whatsoever on the part of UNDP concerning the legal status of any country, territory, city or area or its authorities, or concerning the delimitation of its frontiers or boundaries.

By signing this UNDP GCF project document, the Implementing Partner also agrees to the terms and conditions of the GCF Funded Activity Agreement (FAA) included in Annex and to use the GCF funds for the purposes for which they were provided. UNDP has the right to terminate this project should the Implementing Partner breach the terms of the GCF FFA.

OFFLINE RISK LOG (Updated)

#	Description	Date Identified	Type	Impact & Probability	Countermeasures / Management response	Owner	Submitted, updated by	Last Update	Status
1	Sediment movement during construction activities of hard infrastructure	September, 2016	Environmental Social	Construction of structural mitigation facilities may get delayed due to moving sediment P = 3 I = 1	Prior to undertaking works, UNDP will prepare an erosion control sediment plan and install silt curtains to restrict sediment movement during construction activities. Design and appropriate hydrological modeling will be undertaken to ensure the infrastructure is ideally located. Further, all activities will be undertaken in autumn to reduce the impacts of GLOF events.	Project Manager	Project Manager	07/2018	No change
2	Sediment movement during forest rehabilitation activities	September, 2016	Environmental Social	Forest rehabilitation activities can be delayed, or selected sites compromised P = 1 I = 1	Prior to undertaking works, UNDP will prepare an erosion control sediment plan and install silt curtains to restrict sediment movement during planting activities. Further, where possible, all planting will be undertaken in autumn to reduce the impacts of GLOF events although where this is not possible due to plant survival, appropriate forecasting should be followed.	Project Manager	Project Manager	07/2018	No change
3	Reduction in the availability of land through the rehabilitation and planting of vegetation	September, 2016	Environmental Social	Slope stabilization activities through planting of vegetation may reduce land available for other livelihood purposes for the communities P = 1 I = 1	Carefully planning and stakeholder consultation will be undertaken prior to the planting to ensure peoples do not lose their livelihoods. To ensure there is limited impact on people, diversification is planned.	Project Manager	Project Manager	07/2018	No change
4	Failure of infrastructure constructed as part of the programme	September, 2016	Technical Operational	Failure of infrastructure may expose communities and other important infrastructure installed by the project (AWS,	Prior to construction, all structures will be designed based on site evaluations. Secondly, structures will be built during late summer and autumn to remove the potential for damage during construction. All structures will be designed and built consistent with	Project Manager	Project Manager	07/2018	No change

#	Description	Date Identified	Type	Impact & Probability	Countermeasures / Management response	Owner	Submitted, updated by	Last Update	Status
				etc.) to risks of GLOF and other disasters P = 1 I = 1	international good engineering practice so as the structures are resilient to these events.				
5	Lack of commitment from communities where restoration activities, alternative livelihoods and EWS are established undermines the effectiveness of the GCF project demonstrations.	September, 2016	Social Environmental	Buy-in from communities is essential, as their active involvement is key beyond project duration. Lack of commitment may delay project activities. P = 3 I = 3	The GCF project will avoid a 'top down' approach and seek to create community ownership of the project through community training and encouraging participation in project activities.	Project Manager	Project Manager	07/2018	No change
6	Climate shocks occurring during the design and implementation phase of the GCF project result in disruptions to restoration activities and severely affect communities, prior to the EWSs being established.	September, 2016	Social Environmental	While climate shocks cannot be prevented from happening, their potential impact can be mitigated, by reducing vulnerability of communities and infrastructure. P = 3 I = 3	Disaster mitigation and response activities will be prioritized at the target communities whilst the EWS is being established. Conduct full-scale feasibility assessments prior to installation of equipment/infrastructure works at project sites. Update (July, 2018): Probability and Impact updated as per recommendations of the Independent Technical Assessment (Condition 8.01 (b) (iv)) and Inception Workshop Probability from 1 (Low) to 3 (Medium) Impact from 1 (Low) to 3 (Medium)	Project Manager	Project Manager	07/2018	Updated
7	A disaster takes place and the EWS system fails to alert	September, 2016	Social	As technology mail fail, it may not function as desired and fail to send	Detailed planning and practical training with the stakeholders and regular system maintenance to ensure peoples do not lose	Project Manager	Project Manager	07/2018	No change

#	Description	Date Identified	Type	Impact & Probability	Countermeasures / Management response	Owner	Submitted, updated by	Last Update	Status
	the population on time.		Environmental	required alerts. P = 3 I = 3	their livelihoods and to ensure there is limited impact on people.	er			
8	Access and Maintenance of Equipment could be difficult as target area is remote. Limited capacity of the community members in maintenance of equipment as well as management of funds.	September, 2016	Other	Access issues to location of infrastructure installation may delay maintenance works, and ultimately reduce functionality of the equipment P = 3 I = 1	Constant monitoring from the Project Coordinator and local government officials in the target area to inform the Project Board will reduce the incidence of vandalism and will serve as the institutional mechanism to ensure that equipment is secure and properly maintained. Activities implemented for enhance local capacity building to maintain equipment.	Project Manager	Project Manager	07/2018	No change
9	Security issues in the target area may cause delays in implementation. Some of the proposed sites have remained exposed to instability due to sectarian violence which cause delays in the activities and utilization of DRM funds.	September, 2016	Other	Perceived or real security concerns can limit access to some project target areas. P = 3 I = 1	Coordination with local government's official and police officers in the target area with Project Management Unit will minimize the risk that security issues affect the implementation of the project. Awareness raising activities communities about the significance of these adaptation activities.	Project Manager	Project Manager	09/2018	No change

#	Description	Date Identified	Type	Impact & Probability	Countermeasures / Management response	Owner	Submitted, updated by	Last Update	Status
10	As per applicable Government of Pakistan rules, the project was subject to review and approval by the Central Development Working Party (CDWP) at the Planning Commission, and the Executive Committee of the National Economic Council (ECNEC).	January, 2018	Regulatory	If project is not cleared by relevant Government structures, implementation cannot be initiated. P = 1 I = 3	CDWP has cleared the project in 2017. The approval of the project by ECNEC was granted in February, 2018. Update (October, 2018) The PC-1 of the project has discrepancies which will need to be aligned with changes in project documentation since approval of the project by GCF Board and findings of the Inception Workshop. Consultations initiated with IP on possible revision of the PC1	Project Manager	Project Manager	10/2018	Updated
11	SESP Risk 3: Sediment movement during installation of Early Warning System	July, 2016	Environmental	Sediment movement due to adverse weather conditions, rainfall may delay installation of EWS P = 1 I = 3	When undertaking the installation of weather stations, erosion and sediment control will be established to ensure runoff does not flow into riverine systems.	Project Manager	Project Manager	07/2018	No change
12	SESP Risk 4: Locating infrastructure that is socially detrimental	July, 2016	Social	The automated weather stations, early warning systems and hard infrastructure will be placed at various locations within the districts. There is the potential for these to be placed in locations that are socially unacceptable. P = 2 I = 2	Stakeholder consultation will be undertaken prior to the selection of infrastructure sites to ensure no impacts	Project Manager	Project Manager	07/2018	No change
13	Changing political support and ownership of the project	September	Political	Following general elections in Pakistan in	Regular consultations with Government coordinating entity (Economic Affairs Division)	Project Manager	Project	11/2018	New risk

#	Description	Date Identified	Type	Impact & Probability	Countermeasures / Management response	Owner	Submitted, updated by	Last Update	Status
	from key Government stakeholders	r, 2018		<p>July 2018 and the change of Government, the key officials among key stakeholder institutions have been transferred. This has led to additional scrutiny of all aspects of the project (implementation arrangements, etc.) (Annex 7 – Letter from the IP, Ministry of Climate Change)</p> <p>P=2 I=3</p>	and the IP (Ministry of Climate Change) to address any additional queries regarding the project	er	Manager		