







PAKISTAN FLOOD SITUATION REPORT



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Abbreviations And Acronyms

GB Gilgit Baltistan

KP Khyber Pakhtunkhwa

NDMA National Disaster Risk Management

Authority

GBDMA Gilgit Baltistan Disaster

Management Authority

KPDMA Khyber Pakhtunkhwa Disaster

Management Authority

PDNA Post Disaster Needs Assessments

GLOF Glacial Lake Outburst Flood

MOCC Ministry of Climate Change

GCF Green Climate Fund

UNDP United Nations Development

Programme

CBDRMC Community-Based Disaster Risk

Mangement Centers

HWG Hazard Watch Groups

EWS Early Warning Systems

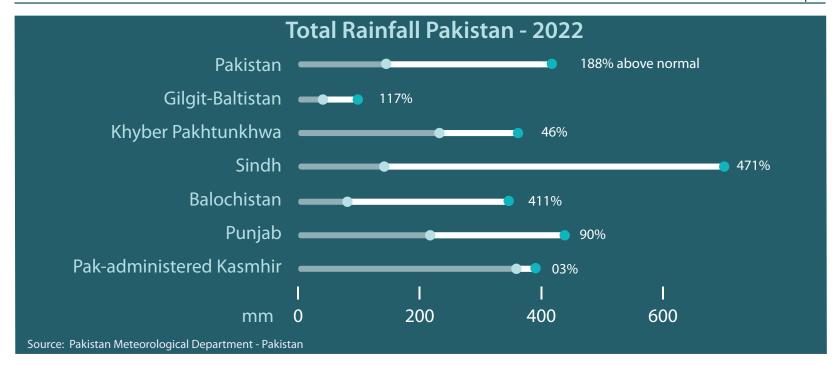
Overview

Due to the hike in global temperatures, and with the onset of monsoon season in April 2022 through the end of August this year, Pakistan has experienced the worst kinds of torrential flooding; devasting the lives of over 33 million people, including approximately 16 million children¹. From bursting clouds and rapidly melting glaciers, the communities, livestock and houses have been entirely destroyed as an impact of severe flash floods and Glacial Lake Outburst Floods (GLOFs).

Trauma, destruction and damages to people's lives, livestock, and infrastructure have propelled the country into unprecedented crisis; accelerating poverty and hunger, and exasperating the country further down in its attainment of the Sustainable Development Goals. As in the words of the UN Secretary General, António Guterres, "We are perfectly aware of our limited capacity and resources. But one thing you can be absolutely sure, we are in total solidarity with the Pakistani people, and we will do everything we can."







According to the National Disaster Management Authority of Pakistan (NDMA), 84 districts in Pakistan are 'Calamity-Hit'. This includes 17 districts of Khyber Pakhtunkhwa (KP) and 10 districts of Giglit Baltistan (GB) in which the GLOF-II Project is being implemented. With Global Warming, the number of GLOFs have drastically increased, bringing about intense heatwaves across the country, triggering approximately 75 GLOF events (64 in GB and 11 in KP) only this year, which have gripped the Northern areas of Pakistan into great devastation. The heatwaves also resulted in the first GLOF event at Shishper Glacier in the valley of Hassanabad in Hunza (Gilgit Baltistan); with the size of the glacial lake being 15% larger than recorded in the past three years at pre-outburst level³. The effects of these torrential floods are deepened as Climate Change continues, with vast areas of land inundated with over two months of repeated storms, flooding, and rain-induced disasters; mercilessly uprooting forests and vegetation, and trampling down the existing infrastructure such as bridges, irrigation channels, and flood protection infrastructures. Consequently, many rivers have reached a high warning flood level and some have breached river banks. Major dam reservoirs are getting rapidly filled or have depleted their capacity to store more water.

³ Source: International Centre for Integrated Mountain Development - Nepal

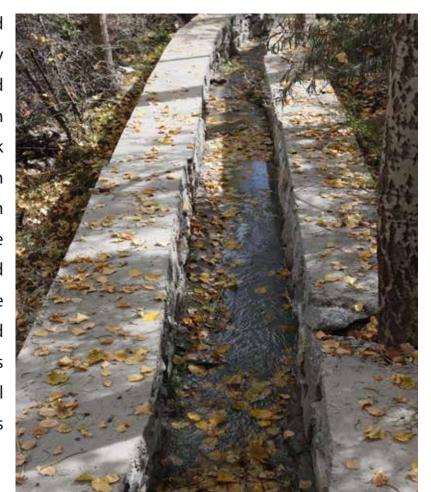
GLOF-II Project



The Scaling-up of Glacial Lake Outburst Flood Risk Reduction in Northern Pakistan (GLOF-II Project) is a flagship project of Ministry of Climate Change Paksitan (MOCC) and United Nations Development Programme (UNDP) with the support of Green Climate Fund (GCF) as a funding partner. The Project has footprints in 18 districts in Pakistan, covering 24 valleys (16 in GB and 08 in KP).

Project core interventions include installation of Early Warning System, Construction of small-scale engineering structures, Rehabilitation of water-efficient farming technologies through Irrigation Schemes, and Slope Stabilization through Plantation and Bio-Engineering Structures.

Project is also building capacity of national and sub-national institutions and building community resilience through trainings, mock-drills, and awareness sessions. The Project has established in 24 valleys Community Based Disaster Committees Management (CBDRMC), formation of Hazard Watch Groups (HWG) within communities to act as a first line of responder in the wake of disaster. Project has also provided emergency rescue and relief equipment to the HWGs. GLOF-II is building two Safe Havens and CBDRM Centers in each valley. In addition project is supporting communities in preserving local indigenous practices of Glacial Grafting, Ice Stupas and Avalanche Harvesting.

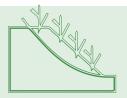




Irrigation Channels

Established

66 Ongoing



Slope Stabilization

completed on

520 HECTARES

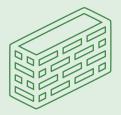
of unstable, landslide-prone areas through bio-engineering structures



Ongoing Establishment of

12 Safe **Havens**

GLOF-II PROJECT ONGOING INTERVENTIONS



Small-Scale Infrastructures

Established

Ongoing



Ongoing Establishment of

Community Based Disaster Risk **Management Centers**



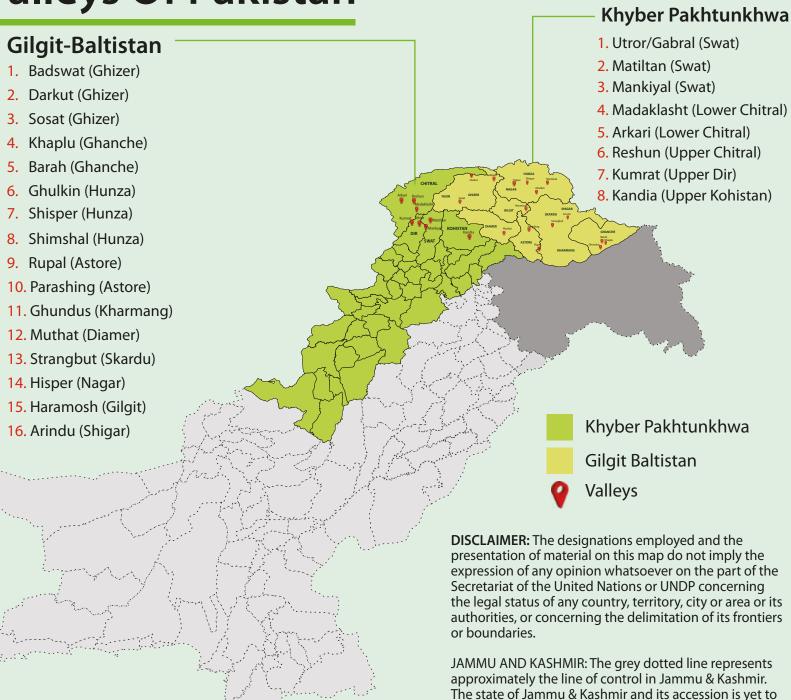
Ongoing Installation of **Early Warning** Systems in

Early Warning System (EWS) comprises of Automatic Weather Station, Rain Gauge, Water Depth Gauge, Water Discharge Sensor, Snow-Depth Sensor, and Warning Post. EWS for 24 valleys have arrived in Pakistan and are scheduled to be installed in 04 valleys by the end of this year, with installation expected to be completed in all project valleys by end of 2023.



be decided through a plebiscite under the relevant United Nations Security Council Resolutions.

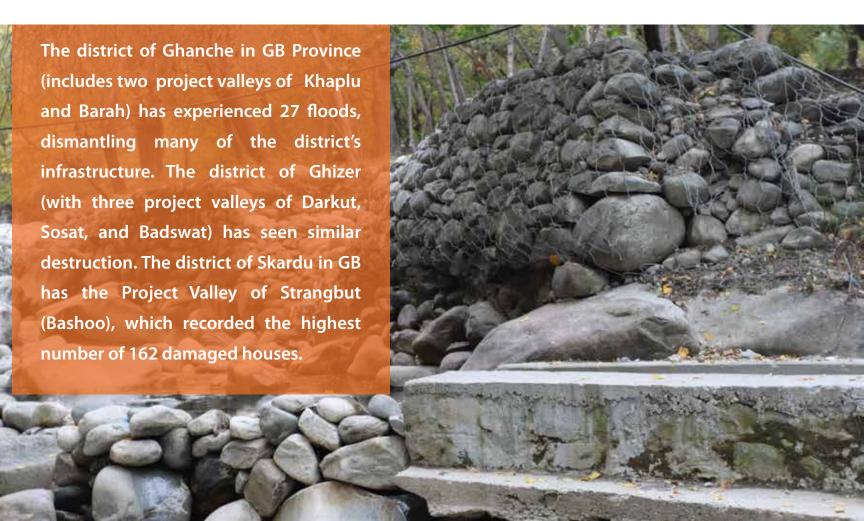
Valleys Of Pakistan





IMPACTS ON PROJECT BUILT INFRASTRUCTURES

With the devastation of floods and GLOFs in 2022, the infrastructure built by GLOF-II Project in 10 valleys of KP and GB, including small-scale infrastructures (gabion walls, check dams) and irrigation channels have been severly damaged. At an estimate, 500 to 1500 running feet of gabion walls, and 80 to 600 running feet of irrigation channels have been destroyed. These impacts are more pronounced in Gilgit, Skardu, Diamer, Kharmang, Hunza, Ghizer, Swat, and Upper Dir districts.

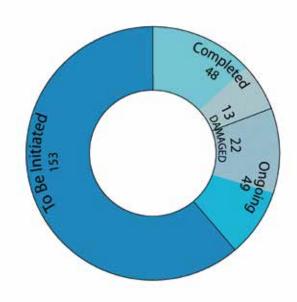


inaccessible.

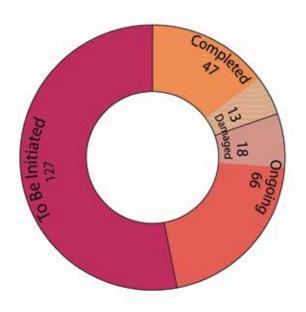
Preliminary assessment indicates damages in project valleys to 35 small-scale infrastructures and 31 irrigation channels. The Project is currently working with the provinicial and national authorities in Pakistan on drafting a Rehabilitation Plan for damaged infrastructure. The assessments by the Provincal Disaster Management Authorities highlight that several structures have been completely wiped out with some severely damaged because of the heavy rainfall and GLOFs.

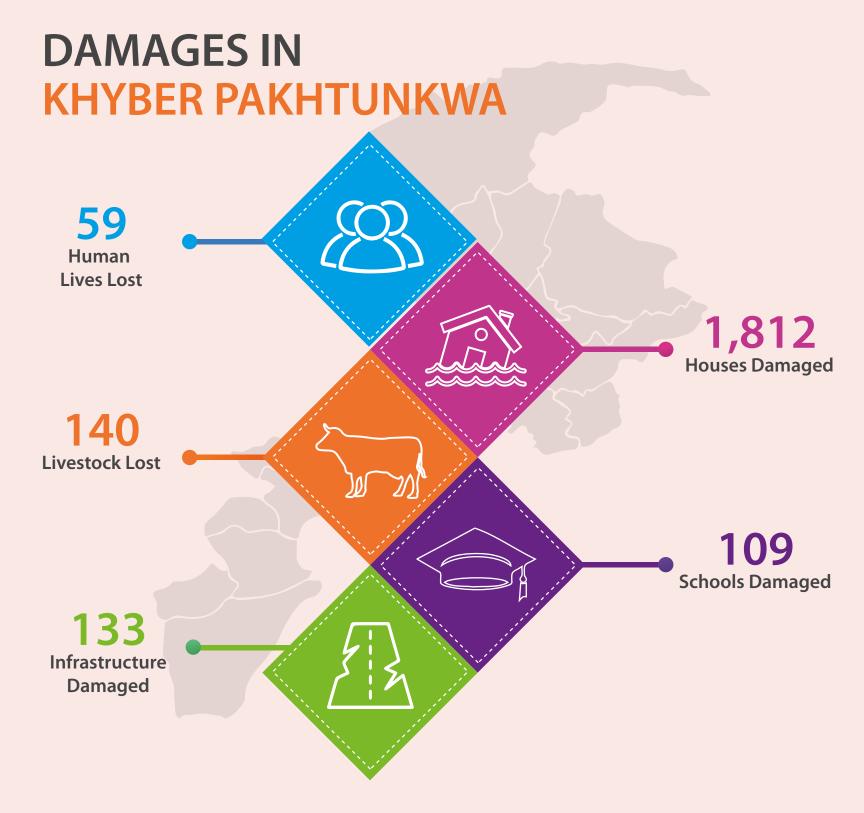
The post disaster need assessment is currently ongoing which will determine the exact magnitude of damages and way forward for repair and rehabilitation. As many of the bridges and roads have collapsed due to the immense pressure of the floods, some project valleys particularly in the districts of Chitral, Swat, Upper Dir, and Ghizer still remain

Small-scale Infrastructure



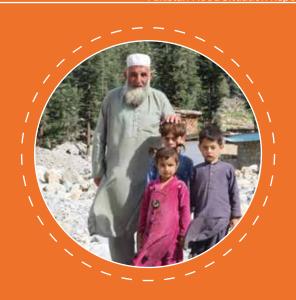
Irrigation Scheme





Due to the unprecedented magnitude of torrential floods and GLOFs hitting project valleys, the built infrastructure could not sustain the extreme water pressure, which destroyed everything in its way. Gauging from the impacts of the floods, the project is currently working with provincial partners towards realignment of the infrastructure, and to enhance sustaining capacity. The project has already initiated the process for relocation of some of these structures following the disaster.

Despite the damages, the project interventions have provided communities with a first line of defense against GLOFs. In the province of KP, small-scale infrastructures established by the project in Matiltan valley of Swat district and Madaklasht valley of Chitral district have provided protection to the vulnerable communities living in these valleys. Had it not been for the construction of a gabion wall (small-scale infrastructure) by the GLOF-II Project, the devastation in the valley would have been disasterous. The well-constructed gabion wall helped in diverting the flood to a nearby Nullah , safeguarding not just the communities living downstream, but also ensuring that the electric supply remains intact.



We are three brothers and had an altogether of eight homes on this land. Now, this land has only rubble and dust as our homes have been completely destroyed. Everything that was fimiliar to us is gone, including the mosque where we would offer our prayers.

Shireen Khan
CBDRMC Member

DAMAGES IN GILGIT BALTISTAN



Mr. Faridullah, Chairman of the Community Based Disaster Risk Management Committee (CBDRMC) of Matiltan valley said "Matiltan is home to more than 2,500 people. To us, this gabion wall is not only a mitigating structure but a savior of thousands of lives in the valley." Similarly, another small-scale infrastructure (gabion wall) constructed in Madklasht valley of Lower Chitral district helped in protecting valuable agricultural land, houses, and the local power-station. Although the structure was compromised by the floods, it helped in averting damages by diverting the water flow away from communities and their valuable assets.

The heavy monsoon rainfall and GLOFs also caused devastation in the Kumrat valley in Upper Dir district, inciting floods and landslides at several locations, affecting homes, agricultural land, business, livestock, and washing away most of the communication network and roads. Although much has been lost in this disaster, what the floods have been unable to wreck is the unbending

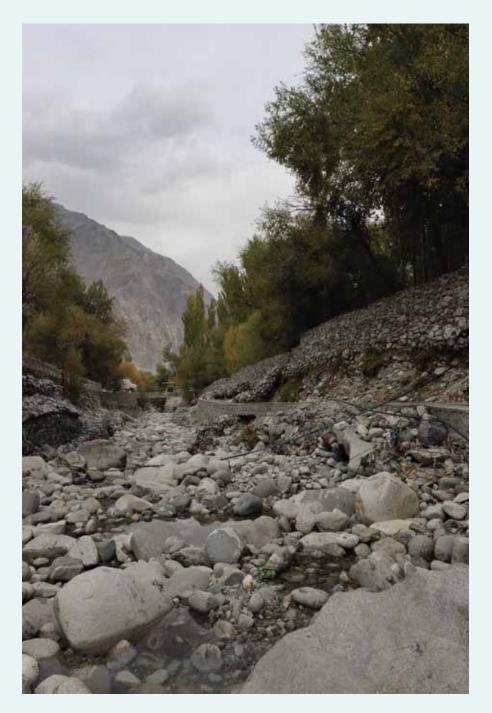


hope and resilience of these people and CBDRM Committies. The GLOF-II Project investment in this social capital through the establishment of CBDRMCs in the target valleys has proven to be very useful in evacuating communities out of these disaster struck areas. These CBDRM Committies ensures the inclusion and participation of communities and training them on disaster response and mitigation.

REHABILITATION EFFORTS

The GLOF-II Teams at federal, provincial and field level in the provinces of GB and KP are actively engaged and coordinating with the Government line departments and communities for damage assessment, and to respond to the needs of the affected communities, especially women and children. The Provincial Disaster Management Authorities have mobilized all district administrations for a comprehensive assessment of losses and damages to highlight the exact nature and extent of the damages to lives, livelihoods, and households. Government partners in collaboration with the GLOF-II project, are in the process of devising plans for damaged infrastructures with a predicted timeline of 04 to 06 months for rehabilitation. There will be an impact on remaining project construction activities, due to accessibility issues emanating from the floods. Another major challenge is the onset of the winter season - starting from October, during which road closure and cold temperatures hamper rehabilitation and construction activities. Many valleys in KP including. Utror and Kalam remain inaccessible despite restoration efforts by the Provincial Governments, due to harsh weather and tough terrains.





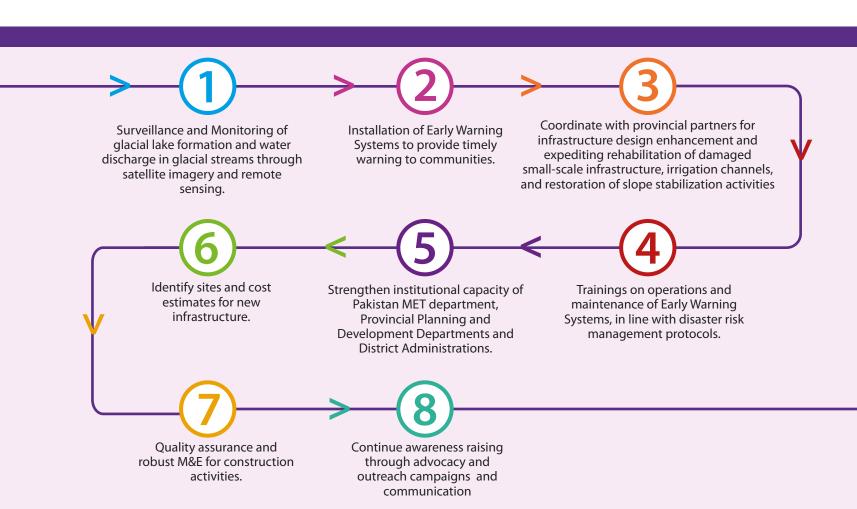


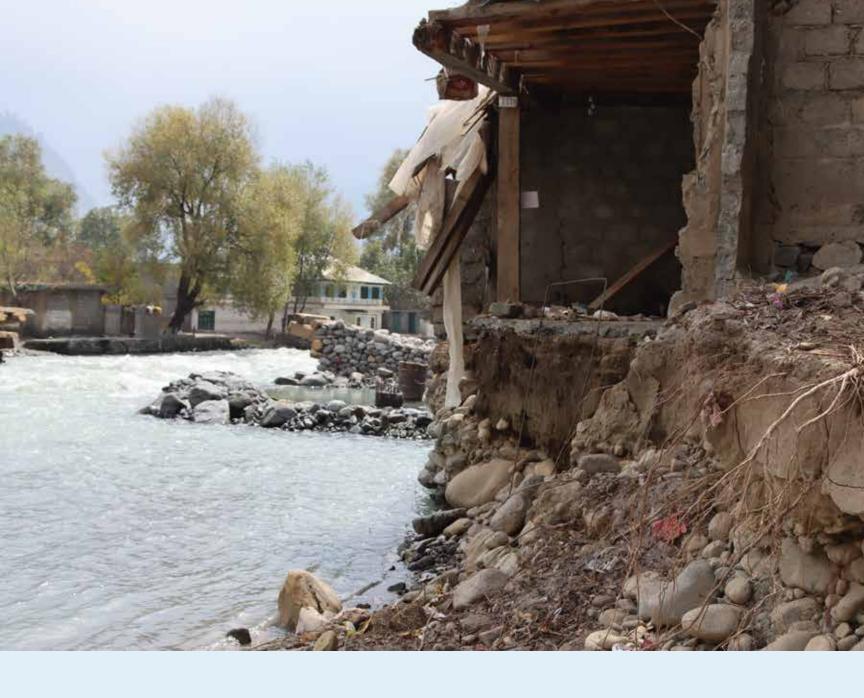
"Protective walls are necessary for our valleys to remain safe from the damages and destruction caused by the recent floods and GLOFs. So many valleys in our area have lost homes and lands as there was no infrastructure to sustain the water. Fortunately for our valley, the GLOF-II Project has constructed eighteen protective walls, out of which only two were partially damaged. We are extremely grateful to the project as these walls have protected our lives and our livelihood despite the magnitude of the floods."

Naseer ud din
Assistant Director, GBDMA,
Khaplu/Kharmang

WAY-FORWARD

The immediate next step for the project is to rehabilitate the damaged infrastructures in project valleys. Once Post Disaster Needs Assessments (PDNA) let by the Government of Pakistan/World Bank/European Union/UNDP has been completed, project will devise a detailed rehabilitation plan with provincial partners and will realign infrastructure accordingly.





ANNEXURES

Annex-A: Project Outputs

Output 1

Strengthened sub-national institutional capacities to plan and implement climate change resilient development pathways

Project Outputs

Output 2

Community-based EWS and long-term measures are scaled up to increase communities adaptive capacities

Project Activity 1.1

Strengthening Provincial line and planning departments technical capacities to mainstream CC into development plans

Project Activity 1.2

Effective coordination with sub-national institutions to implement CCA action plan and CCA initiatives

Project Activity 2.1

Expanded weather surveillance and discharge measuring networks

Project Activity 2.2

Effective Early Warnings are in protecting communities from climate-inducted risks

Project Activity 2.3

Adequate long-term measures for vulnerable communities to address GLOF-related risks

Project Activity 2.4

Improved financial capacities to adapt to GLOFs and CC-induced risks

Annex-B: GLOF events in KP and GB

	GLOF events in GB (June-August 2022)											
	Province	Location	Date	Lies Under GLOF-II								
				Valleys								
1.	Gilgit-Baltistan	Dumsum Nullah, Ghanche	29/06/2022	No								
2.	Gilgit-Baltistan	Thugmus Nullah, Ghanche	29/06/2022	No								
3.	Gilgit-Baltistan	Thangu Nullah, Ghanche	29/06/2022	No								
4.	Gilgit-Baltistan	Hassanabad, Hunza	30/06/2022	Yes								
5.	Gilgit-Baltistan	Hisper, Nagar	30/06/2022	Yes								
6.	Gilgit-Baltistan	Badswat, Ghizer	01/07/2022	Yes								
7.	Gilgit-Baltistan	Chuligon Nullah, Saltaro, Ghanche	02/07/2022	No								
8.	Gilgit-Baltistan	Hassanabad Nullah, Hunza	02/07/2022	Yes								
9.	Gilgit-Baltistan	Lachat Nullah Kudus, Mashabroom,	02/07/2022	No								
		Ghanche										
10	Gilgit-Baltistan	Gulmit Nullah Gojal, Hunza	02/07/2022	No								
11	Gilgit-Baltistan	Hassanabad Nullah, Hunza	03/07/2022	Yes								
12	Gilgit-Baltistan	Gulmit Nullah Gojal, Hunza	03/07/2022	No								
13	Gilgit-Baltistan	Shimshal valley, Hunza	03/07/2022	Yes								
14	Gilgit-Baltistan	Hisper, Nagar	03/07/2022	Yes								
15	Gilgit-Baltistan	Mashabrum, kondus, gonma, gagulu &	03/07/2022	No								
		saltoru, Ghanche										
16	Gilgit-Baltistan	Korfong Nullah, Askoli, Shigar	03/07/2022	No								
17	Gilgit-Baltistan	Gulmit, Gojal, Hunza	04/07/2022	No								
18	Gilgit-Baltistan	Thelthi Thoi Yasin, Ghizer	05/07/2022	-								
19	Gilgit-Baltistan	Haldi Nullah Mashabroom, Ghanche	05/07/2022	No								
20	Gilgit-Baltistan	Gagulo Sikxum Saltaro, Ghanche	05/07/2022	No								

	GLOF events	in GB (June-August 2022)		
	Province	Location	Date	Lies Under GLOF-II
				Valleys
21	Gilgit-Baltistan	Stak askore Nullah, Skardu	05/07/2022	No
22	Gilgit-Baltistan	Sherqilla, Ghizer	05/07/2022	
23	Gilgit-Baltistan	Youlbu Nullah, Gunji Main Nullah, Tormik Bazgang Nullah, Stak Askore Nullah, Shano/ Rejing Nullah Stak and Tughla Nullah Stak/Subdivision Roundu	05/07/2022	No
24	Gilgit-Baltistan	Badswat Nullah, Bilhanz Nullah/Ghizer	06/07/2022	Yes
25	Gilgit-Baltistan	Lachat Nullah, chogogrong Nullah, korkondu Nullah/Ghanche	06/07/2022	Yes
26	Gilgit-Baltistan	Gagloo , bragmar , chuligon, chaltes Nullah/Ghanche	06/07/2022	No
27	Gilgit-Baltistan	Thogmus Nullah/Ghanche	06/07/2022	No
28	Gilgit-Baltistan	Sain parri /Ghanche	06/07/2022	No
29	Gilgit-Baltistan	Tormik/Skardu	07/07/2022	No
30	Gilgit-Baltistan	Stak/Roundu	07/07/2022	No
31	Gilgit-Baltistan	Darkut Valley/Ghizer	08/07/2022	Yes
32	Gilgit-Baltistan	Sumayar Nullah/Nagar	09/07/2022	No
33	Gilgit-Baltistan	Passu, Gojal/Hunza	10/07/2022	No
34	Gilgit-Baltistan	shatoot Nullah, Haramosh/ Gilgit	11/07/2022	Yes
35	Gilgit-Baltistan	Thongul Nullah Braldo valley	19/07/2022	No
36	Gilgit-Baltistan	Ratal Nullah/Nagar	22/07/2022	No
37	Gilgit-Baltistan	Hoper valley/Nagar	23/07/2022	No
38	Gilgit-Baltistan	Sherqilla Nullah/Ghizer	24/07/2022	No
39	Gilgit-Baltistan	Hamuchal nullah	24/07/2022	No
40	Gilgit-Baltistan	Bagrote/Subdivision Danyore	24/07/2022	Yes
41	Gilgit-Baltistan	Immit Nullah/Ghizer	24/07/2022	No
42	Gilgit-Baltistan	Zoodkhon nala, Chipurson Gojal/Hunza	24/07/2022	No

	GLOF events	in GB (June-August 2022)		
	Province	Location	Date	Lies Under GLOF-II Valleys
43	Gilgit-Baltistan	kardu Chunda Ghorghun and Shigari Kalan Thayut Burdo Nullah	27/07/2022	No
44	Gilgit-Baltistan	Raisha Mashabroom/Ghanche	27/07/2022	No
45	Gilgit-Baltistan	Umalsat Yasin/Ghizer	29/07/2022	No
46	Gilgit-Baltistan	Pari village/Kharmang	29/07/2022	No
47	Gilgit-Baltistan	Siacheen, Sino Mashabroom/Ghanche	29/07/2022	no
48	Gilgit-Baltistan	Surmo/Ghanche	29/07/2022	No
49	Gilgit-Baltistan	Garbocho Khaplu/Ghanche	29/07/2022	Yes
50	Gilgit-Baltistan	Tholdi /Ghanche	29/07/2022	No
51	Gilgit-Baltistan	Askoli/Shigar	29/07/2022	No
52	Gilgit-Baltistan	Youchung /Ghanche	29/07/2022	No
53	Gilgit-Baltistan	Surmo Gond/Ghanche	29/07/2022	No
54	Gilgit-Baltistan	Ghursay/Ghanche	29/07/2022	Yes
55	Gilgit-Baltistan	Thagus /Sino/Ghanche	29/07/2022	No
56	Gilgit-Baltistan	Saith to huli gond Ghagulo/Ghanche	29/07/2022	No
57	Gilgit-Baltistan	Chaltis Saltoro/Ghanche	29/07/2022	No
58	Gilgit-Baltistan	Kanday Rustang/Ghanche	29/07/2022	No
59	Gilgit-Baltistan	Machulo to gamba bagh/Ghanche	29/07/2022	No
60	Gilgit-Baltistan	Gone daghoni/Ghanche	29/07/2022	No
61	Gilgit-Baltistan	Kraming /Ghanche	29/07/2022	No
62	Gilgit-Baltistan	Dahimal at Kalu Gah/ Gahogah/Ghizer	01/08/2022	No
63	Gilgit-Baltistan	Immit Nullah/Ghizer	01/08/2022	No
64	Gilgit-Baltistan	Dhaimal Gupis/Ghizer	01/08/2022	No
		Total Events: 64		

	GLOF events in KP (June-August 2022)											
Province	Location	Date	Lies Under GLOF-II Valleys									
Khyber Pakhtunkhwa	Eshperu Gol Terich Valley	18/06/2022	No									
Khyber Pakhtunkhwa	Rabat Gol Arkari Valley/Lower Chitral	29/06/2022	Yes									
Khyber Pakhtunkhwa	Sholkoch Gol Yarkhoon Valley/ Upper Chitral	02/07/2022	No									
Khyber Pakhtunkhwa	Harchin Gol Laspur Valley/Upper Chitral	02/07/2022	No									
Khyber Pakhtunkhwa	Power Gol Yarkhoon Valley/Upper Chitral	03/07/2022	No									
Khyber Pakhtunkhwa	Gasht Gol Laspur Valley/Upper Chitral	04/07/2022	No									
Khyber Pakhtunkhwa	Chekan Gol Brep Yarkhoon Valley/Upper Chitral	05/07/2022	No									
Khyber Pakhtunkhwa	Pasum Gol Yarkhoon Valley/Upper Chitral	05/07/2022	No									
Khyber Pakhtunkhwa	Urkhan Gol Miragram No 2 Yarkhoon Valley/Upper Chitral	05/07/2022	No									
Khyber Pakhtunkhwa	Reshun Valley/Upper Chitral	08/07/2022	Yes									
Khyber Pakhtunkhwa	Meragram No.1, Upper Chitral	15/08/2022	No									
	Total Events: 11											

Annex-C: Damage Assessment of Project Infrastructures

Sr. No	Province	Districts	Damages
1	KP	Upper Dir	656 RFT ² irrigation channel damaged at Kumrat
2			197 RFT irrigation channel damaged at Kumrat
3			197 RFT irrigation channel damaged at Kumrat
4			197 RFT irrigation channel damaged at Kumrat
5			98 RFT irrigation channel damaged at Kumrat
6			984 RFT irrigation channel damaged at Kumrat
7			984 RFT irrigation channel damaged at Kumrat
8			148 RFT irrigation channel damaged at Kumrat
9			328 RFT irrigation channel damaged at Kumrat
10		Swat	4870 RFT irrigation channel damaged at Utror/Gabral
11			590 RFT irrigation channel damaged at Utror/Gabral
12			9842 RFT irrigation channel damaged at Utror/Gabral
13			597 RFT irrigation channel damaged at Utror/Gabral
14			525 RFT irrigation channel damaged at Matiltan
15			2624 RFT irrigation channel damaged at Mankiyal
16			2624 RFT irrigation channel damaged at Mankiyal
17			4265 RFT irrigation channel damaged at Utror/Gabral
18			3937 RFT irrigation channel damaged at Utror/Gabral
19			Damaged gabion wall of 89 RFT at Badswat Nullah – first
20			section rehabilitation
20			Damaged gabion wall of 89 RFT at Badswat Nullah – second section rehabilitation
21	GB	Ghizer	Damaged gabion wall of 89 RFT at Badswat Nullah – third
		020.	section rehabilitation
22			Damaged gabion wall of 89 RFT at Badswat Nullah –
			fourth section rehabilitation
23			Damaged gabion wall of 89 RFT at Badswat Nullah – fifth
			section rehabilitation

Sr. No	Province	Districts	Damages					
24			Damaged gabion wall of 89 RFT at Badswat Nullah – sixth					
24			section rehabilitation					
25	-		Damaged gabion wall of 89 RFT at Badswat Nullah –					
			seventh section rehabilitation					
26			Damaged gabion wall of 79 RFT at Badswat Nullah –					
			eighth section rehabilitation					
27		Chi	Damaged gabion wall of 79 RFT at Badswat Nullah –					
	GB	Ghizer	Ninth section rehabilitation					
28			Damaged gabion wall of 79 RFT at Badswat Nullah –					
			tenth section rehabilitation					
29			Damaged gabion wall of 79 RFT at Badswat Nullah –					
			eleventh section rehabilitation					
30			Damaged gabion wall of 49 RFT at Badswat Nullah –					
			twelfth section rehabilitation					
31			Gabion wall of 1200 RFT in form of Channelization along					
	-		the Nullah at Badswat					
32			Gabion wall of 98 RFT at Bapemal Nallah Structure,					
			Darkut – first section					
33			Gabion wall of 98 RFT at Bapemal Nallah Structure,					
			Darkut – second section					
34			Gabion wall of 98 RFT at Bapemal Nallah Structure,					
25			Darkut - third section					
35			Gabion wall of 98 RFT at Khatgram Nallah Structure, Darkut – first section					
36			Gabion wall of 98 RFT at Khatgram Nallah Structure,					
30			Darkut second section					
37	-		Gabion wall of 98 RFT at Khatgram Nallah Structure,					
3,			Darkut - third section					
38			Gabion wall of 98 RFT at Khatgram Nallah Structure,					
30			Darkut - fourth section					
			Darrac Tourist Section					

Sr. No	Province	Districts	Damages					
39			Gabion wall of 98 RFT at Dalgram Nallah Structure,					
			Darkut – first section					
40			Gabion wall of 98 RFT at Dalgram Nallah Structure,					
			Darkut – second section					
41			Gabion wall of 98 RFT at Dalgram Nallah Structure,					
			Darkut - third					
42			Gabion wall of 98 RFT at Dalgram Nallah Structure,					
40		Ghizer	Darkut – fourth section					
43			Gabion wall of 98 RFT at Gasoon Nallah Structure, Darkut – first section					
44								
44			Gabion wall of 98 RFT at Gasoom Nallah Structure, Darkut - second section					
45			Gabion wall of 98 RFT at Gasoom Nallah Structure,					
73			Darkut – third section					
46	_		Gabion wall of 98 RFT at Gasoom Nallah Structure,					
	GB		Darkut - fourth section					
47		Kharmang	Gabion wall 79 RFT at Ghundus Nallah Structure- first					
		_	section					
48			Gabion wall 79 RFT at Ghundus Nallah Structure- second					
			section					
49			Gabion wall of 79 RFT at Ghundus Nallah Structure –					
			third section					
50			Gabion wall of 79 RFT at Ghundus Nallah Structure –					
			fourth section					
51			Gabion wall of 79 RFT at Ghundus Nallah Structure – fifth					
			section					
52			Gabion wall of 79 RFT at Ghundus Nallah Structure –					
F2			sixth section					
53			Gabion wall of 79 RFT at Ghundus Nallah Structure – seventh section					
ΕΛ		Diamor						
54		Diamer	600 RFT irrigation channel damaged in Muthat					

Sr. No	Province	Districts	Damages	Tentative Rehabilitation Timeframe ¹
55		Hunza	200 RFT irrigation channel has been washout in Shisper	02 month
56		Hunza	150 RFT irrigation channel has been washed out in Shisper	02 month
57		Hunza	80 RFT irrigation channel has been damaged in Shisper	01 month
58	GB	Skardu	Head of irrigation channel is washed away and 30 RFT channel damaged in Bashoo	02 month
59	0.2	Skardu	50 RFT irrigation channel damaged in Bashoo	01 month
60		Skardu	80 RFT irrigation channel damaged in Bashoo	01 month
61		Skardu	80 RFT irrigation channel damaged in Bashoo	01 month
62		Skardu	01 month	
63		Ghizer	50 RFT irrigation channel damaged in Sosat	01 month
64		Ghizer	1000 RFT irrigation channel damaged in Darkut	03 month
65		Gilgit	350 RFT irrigation channel damaged in Haramosh	02 month
66		Gilgit	250 RFT irrigation channel damaged in Haramosh	02 month

Annex-D: Damage Assessment in KP and GB

Table 01: Khyber Pakhtunkhwa (KP)

	Loss/Damage in GLOF-II Project Districts KP 01-06-2022 to 31-08-2022 Source: KPDMA																	
DISTRICT	HUMAN LOSSES/INJURIES								LIVESTOCK LOSSES									
		Deat	:hs			Injur	ed				Houses			Schools			Others	
	Male	Female	Child	Total	Male	Female	Child	Total	Total	Fully	Partially	Total	Fully	Partially	Total	Fully	Partially	Total
Lower Chitral	3	1	1	5	0	0	0	0	7	2	6	8	0	0	0	3	0	3
Mansehra	15	0	0	15	1	0	0	1	0	0	4	4	0	0	0	8	0	8
Peshawar	0	0	0	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0
Swat	18	0	2	20	22	0	1	23	0	86	138	224	0	0	0	24	2	26
Upper Dir	6	0	5	11	6	2	0	8	89	288	645	933	18	64	82	37	0	37
Upper Kohistan	5	0	1	6	1	0	2	3	4	122	241	363	1	0	1	5	10	15
Upper Chitral	1	0	1	2	1	0	1	2	40	150	80	230	0	26	26	1	43	44
Total(s)	48	1	10	59	31	2	4	37	140	648	1164	1812	19	90	109	78	55	133

Source: KPDMA

Table 02: Gilgit Baltistan (GB)

	Loss/Damage in GLOF-II Project Districts GB 01-06-2022 to 07-09-2022 Source: GBDMA												
Human casualties	Human Injure		Human Injure Ar Inund (Kar		No. of Power Plants Damaged	Bridges Damaged	Blockage of Points	Houses Partially Damaged	Houses Fully Damaged	Financial Relief	Families Provided Goods	Roads Blockage	Roads Cleared
22		5		8541.6	32	61	30	636	575	-	-	30	29
District Name	No of Human casualties		an	No of Human Injured	No of approx. area inundated (in Kanals)	No of Power House Damaged	No of Bridge Damaged	No of Blockage Points (Road Blocks)	No of Houses Partially Damaged	No of Houses Fully Damaged	Financial Relief Provided (PKR)	No of Families Provided Relief Goods	No of Roads Cleared
	M	F	C						-				
Gilgit	-	-	-	-	100	6	1	-	22	81	-	-	-
Ghizer	2	10	5	5	2301.6	8	11	18	99	180	-	-	18
Hunza	-	1	1		50	3	4	4	9	11	-	-	4
Nagar	-	-	-	-	300	3	6	6	25	8	-	-	5
Astore	-	-	-	-		-		2	-		-	-	2
Diamer	3	-	-	-	1800	3	20	-	197	137	-	-	-
Skardu	-	-	-	-	3690	2	10	-	240	84	-	-	-
Shigar	-	-	-	-	100	3	2	-	-		-	-	-
Ghanche	-	-	-	-	100	3	-	-	44	74	-	-	-
Kharmang	-	-	-	-	100	1	7	-	-	-	-	-	-
G. Total	22	5	8541.6	32	61	30	636	575	-	-	29	-	-

Source: GBDMA











Scaling-up of Glacial Lake Outburst Flood Risk Reduction in Northern Pakistan (GLOF-II PROJECT)

A Project by Ministry of Climate Change and UNDP Pakistan with support from Green Climate Fund



















