



PROVINCIAL DISASTER MANAGEMENT AUTHORITY

TOWARDS DISASTER RESILIENT KHYBER PAKHTUNKHWA



RELIEF, REHABILITATION & SETTLEMENT DEPARTMENT

GOVERNMENT OF KHYBER PAKHTUNKHWA

MONSOON CONTINGENCY PLAN 2023



PROVINCIAL DISASTER MANAGEMENT AUTHORITY

TOWARDS DISASTER RESILIENT KHYBER PAKHTUNKHWA











Developed by:

Disaster Risk Management (DRM) Wing, PDMA, Khyber Pakhtunkhwa

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LIST OF ACRONYMS

AAC Additional Assistant Commissioner

AC Assistant Commissioner

ADB Asian Development Bank

ADC Additional Deputy Commissioner

CDPM Centre for Disaster Preparedness and Management

COVID Corona Virus Disease
DC Deputy Commissioner

DDMO District Disaster Management Officer

DDMU District Disaster Management Unit

DNA Damage Need Assessment
DRM Disaster Risk Management
FFC Federal Flood Commission

FFD Flood Forecasting Division

GLOF Glacial Lake Outburst Flood

HH House Hold

HRF Humanitarian Response Facility

MC Municipal Corporation

MO Municipal Officer

MHVRA Multi Hazard Vulnerability Risk Assessment

OBM Out-Board Motor

PCIW Pakistan Commissioner for Indus Waters
PEOC Provincial Emergency Operation Centre

PRCS Pakistan Red Crescent Society

PMD Pakistan Meteorological Department

UNOCHA United Nations Office for the Coordination of Humanitarian Affairs

UN United Nations

UNDP United Nation Development Program

WB World Bank

WFP World Food Program

WHO World Health Organization

MESSAGE



Disasters linked to climate and weather extremes have always been part of our Earth's system. But they are becoming more frequent and intense as the world warms. As per Global Climate Risk Index, Pakistan falls in top 10 countries who bear adverse impact due to climate change. As a manifestation of climate change the frequency and extent of the hydro meteorological disasters like floods, droughts, mini cyclones, hail storms, wind storms, heat waves and the Glacial Lake Outburst Flooding (GLOF) events increase. Climate changes leading to disastrous events, when coupled with the vulnerability factors of the province like population growth, unplanned urbanization and poverty affect the overall developmental progress of a nation.

Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa by virtue of its mandate is the focal agency for dealing with the consequences and vulnerabilities experienced as a result of the climate change. PDMA, Khyber Pakhtunkhwa being a coordinating body is working with all line departments for the adaption of various structural and non-structural measures to reduce impacts of disasters due to Climate Change.

As evident from last year, Heavy monsoon rains had induced massive and unprecedented floods from August to September 2022 across most of Pakistan. The Government of Khyber Pakhtunkhwa, Relief, Rehabilitation and Settlement Department declared rain emergency in 17 affected districts of the province however, preparedness of the PDMA, Districts Administration and all the relevant provincial departments proved fruitful as the damages were minimized due to the timely dissemination of early warnings to the general public.

I am confident that through enhanced coordination among the departments and by efficient utilization of available resources, the risks associated with the mentioned potential hazards due to monsoon season can be minimized.

ABDUL BASIT
Secretary
Relief, Rehabilitation & Settlement Department
Government of Khyber Pakhtunkhwa

MESSAGE

Khyber Pakhtunkhwa is prone to various natural and manmade disasters such as floods, earthquakes, landslides, along with allied geological and hydrological hazards. Therefore, it is crucial for Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa to map the resources for the identified potential hydromeotrological hazards and risks in Khyber Pakhtunkhwa.

Mountainous districts are vulnerable to Glacial Lake Outburst Floods (GLOFs), Flash and Riverine floods. Peshawar Basin has an exposure to inundation and similarly southern districts prone to hailstorms, riverine and flash floods. Therefore, depending on the intensity of monsoon precipitation and snow melt, Khyber

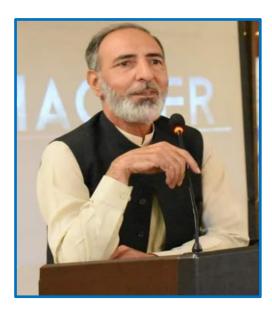


Pakhtunkhwa is vulnerable to sudden onset of hydro-meteorological disasters which require time sensitive response and quick surge. Encroachment on river banks is one of the major causes of losses of both lives and property during floods. Population surge along the river banks especially Swat, Kabul and Indus enhances the risks and vulnerability. Similarly blocked and heavily encroached drainage systems of urban areas play a pivotal role in triggering urban flooding culminating in damages and destructions. Moreover, it has been observed that irresponsible behavior and non-observance of disasters' warnings by the vulnerable community has further aggravated the risk of disaster. The masses have the proclivity to ignore the warnings issued by the authorities and stay back at their homes till the disaster hit their area.

Every year PDMA, Khyber Pakhtunkhwa prepares a contingency plan for mitigating the risk associated with monsoon season for unified / holistic response; PDMA conducts consultative sessions with various stakeholders at Federal & Provincial Level and with Districts Administration for Hazard, Vulnerability and Risk Assessment of the districts in province. The ultimate purpose of these meetings / sessions is to improve our response & for better coordination in case of unforeseen natural events and to make Khyber Pakhtunkhwa disaster resilient against all sorts of hazards.

JANNAT GUL AFRIDI
Director General
Provincial Disaster Management Authority
Khyber Pakhtunkhwa

ACKNOWLEDGEMENT



As per its tradition, Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa has managed to frame an effective Monsoon Contingency Plan for dealing with monsoon hazards for the year 2023. PDMA conducted consultative sessions with various stakeholders at Provincial and Federal Level, with Districts Administration and also with Humanitarian Organizations to map the resources including funds, machinery, equipment's, identification of various hazards, categorization of various districts for finding vulnerabilities index, ranking and accordingly allocation of prone districts, defining resources for roles responsibilities of various stakeholders and chalking out mechanism for coordination and response.

This Contingency Plan will play a vital role in a well-coordinated response to any unforeseen monsoon extreme event in Khyber Pakhtunkhwa. The vulnerability of the province demands dedication and commitment to monitor safety and resilience to prevent mitigate and reduce the risks of and prepare for any potential disaster.

I really appreciate the Provincial Disaster Management Authority team for dedicated efforts under my supervision by carrying out various exhaustive consultations and coming up with this comprehensive document. In particular team effort by the members of the DRM Wing, who comprise of Mr. Sahibzada Saleem (Deputy Director DRM), Mr. Hammad Afridi (Assistant Director DRM), Mr. Ismail Khan (DRR Specialist), Mr. Sajid Ali (Coordinator DRM), Mr. Waqar Ali Shah (MIS Officer), Mr. Muhammad Sohail (Reporting & Coordination Expert) and Mr. Qasim Jan (GIS Specialist).

I am grateful to Mr. Abdul Basit (Secretary), Relief, Rehabilitation & Settlement Department, Khyber Pakhtunkhwa and Mr. Jannat Gul Afridi (Director General), Provincial Disaster Management Authority, Khyber Pakhtunkhwa for their encouragement, strategic guidance and support during preparation of this plan. I am thankful to Mr. Taj Mohammad Afridi, the Honorable Minister Relief for his support as well.

MUHAMMAD AMIN
Director (DRM)
Provincial Disaster Management Authority
Khyber Pakhtunkhwa

PROVINCIAL DISASTER MANAGEMENT AUTHORITY (PDMA) KHYBER PAKHTUNKHWA

Provincial Disaster Management Authority (PDMA) was established on 27th October, 2008 as a result of National Disaster Management Ordinance 2006. It was subsequently ratified through National Disaster Management Act, 2010. Soon after its establishment, situation of militancy and extremism forced the government to carryout military operation in Malakand Division against extremist groups, which resulted in an influx of 3.5 million people. In order to manage that emergency situation, Emergency Response Unit (ERU) was established in May 2009 to support the newly established PDMA, Khyber Pakhtunkhwa to handle the emergency situation. The then FATA Disaster Management Authority (FDMA) was responsible for disaster management activities in erstwhile FATA, however after the merger of FATA with the province of Khyber Pakhtunkhwa, the said Authority has been merged in PDMA, Khyber Pakhtunkhwa in May 2019, which is now transformed into Complex Emergency Wing (CEW) of PDMA.

Following are the Wings / Units of PDMA:

- 1) Disaster Risk Management (DRM) Wing
- 2) Relief, Operation & Coordination Wing
- 3) Rehabilitation Wing
- 4) Administration, HR & Finance Wing
- 5) Complex Emergency Wing
- 6) Provincial Emergency Operation Center (PEOC)
- 7) Gender & Child Cell
- 8) Camp Management Unit
- 9) Media Coordination Unit

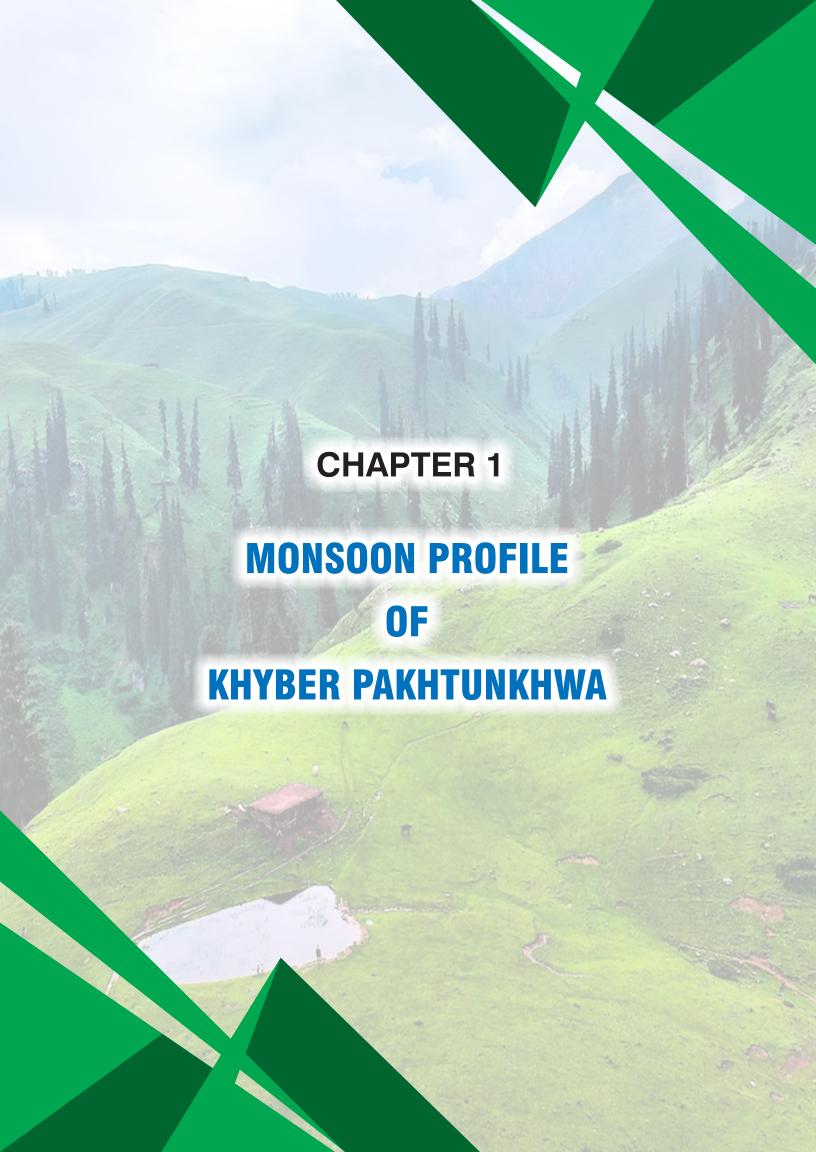


EXECUTIVE SUMMARY

Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa embarked on the process of preparation of Monsoon Contingency Plan (2023) well in time so as to emphasize upon the effectiveness of coordinated response in the event of the any untoward situation. This plan focuses on planning for the upcoming Monsoon 2023 to identify and analyze related risk for not just their humanitarian impacts but also the associated adverse effects on private and public infrastructures. Moreover, it also stipulates roles and responsibilities of diverse stakeholders for preparedness and respone. It is worth mentioning here that PDMA shared guidelines for 2023 Monsoon Contingency Planning with Districts Administration, line departments and other stakeholders primarily for anticipating likely scenarios and perceiving threat levels. While further drawing conclusion from the inputs through the technical experts and relevant departments, it mainly involves indentifying gaps and challenges for effective emergency response and then planning and implementing a series of actions to increase response capacity and reduce potential gaps.

Disaste Risk Reduction (DRR) and management domain addresses as risks associated with potential hazard as an integral part of development. Consequently, it is less events and more process oriented. It is based on a continuous assessment of vulnerabilities and risks involving the role of multiple actors and stakeholders. Given the complexity, contingency planning is required to define what preparedness mechanisms will be used, when and where. Before a response is required, contingency planning afforts agencies, both government and humanitarian the opportunity to define when, where and why their emergency response resources will be deployed, when emergency funds will be used and what kind of responses, material and types of personnel they will need.

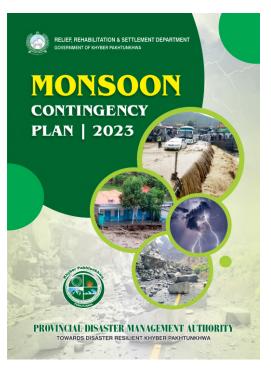
The lessons learnt from unprecedented flood of 2010 followed by heavy monsoon rainfalls of 2011, Flash Flood in 2012, the rainfalls of 2016-17, Super Flood and rains of 2022 and subsequent disasters required quick and effective actions to control the situation and above all to save lives. However, effective action depends on the existence of practical and well tested Contingency Plans. The Privincial Contingency Plan has been formulated to translate recommendation from Districts Administration, line departments and other stakeholders in action.



1.1 Aims & Objectives of Monsoon Contingency Plan

Khyber Pakhtunkhwa is at high risk from multiple natural hazards that arise due to monsoon season. Every year, during the monsoon period of June to September, communities in the Khyber Pakhtunkhwa are at high risk of flooding. Such risks can lead to immediate humanitarian suffering they can increase pre-crisis vulnerabilities and destroy development gains.

The aim of this Monsoon Contingency Plan (2023) is to strengthen preparedness planning in Khyber Pakhtunkhwa with focus on highly flood prone urban / rural areas and mitigating the potential impacts of floods by incorporating lessons learned from the past. It includes improved early warning systems, streamlined evacuation procedures, better communication channels and a focus on community engagements. Additionally, it emphasizes to establish a minimum level of flood preparedness across the province consisting on protection, food security, nutrition, shelter, water, sanitation, hygiene health, education and early recovery for safe community in Khyber Pakhtunkhwa. The overall objective of the Contingency Plan to minimize the loss of lives and properties through an organized and coordinated response.



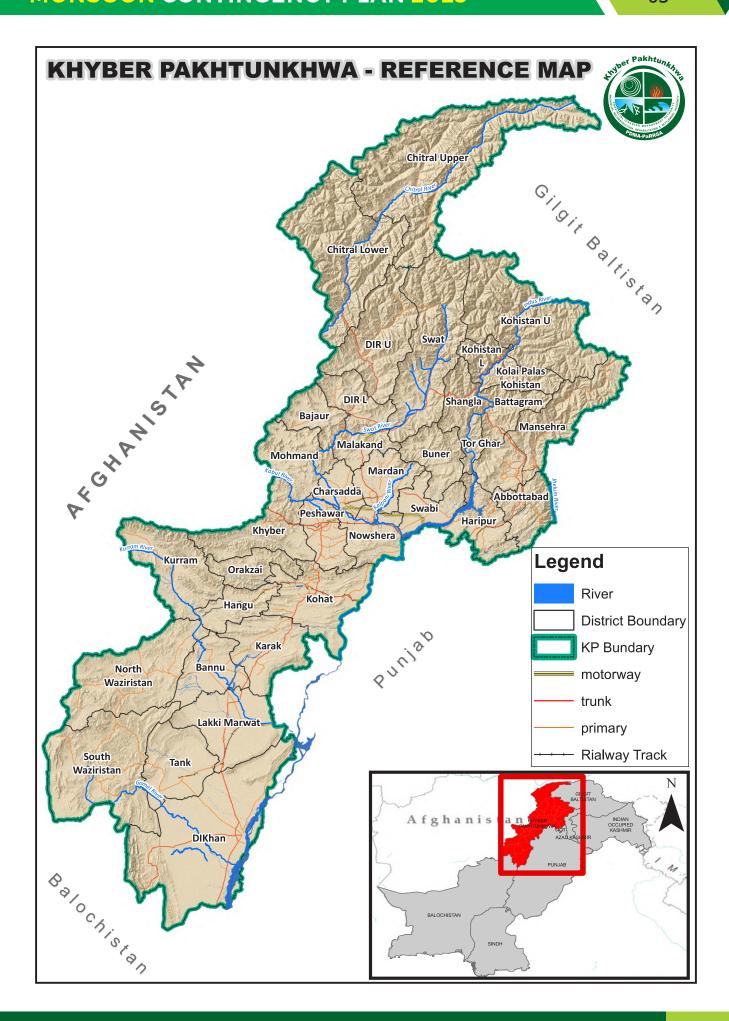
1.2 Climate Profile of Khyber Pakhtunkhwa

Climate is the average / long-term weather pattern in a particular area over a longer period of time (typically averaged over 30 years). A description of a climate includes information on the average temperature in different seasons, rainfall and sunshine. The climate of Pakistan is divided into four main climatic regions or zones i.e. High Land Climate, Low Land Climate, Desert / Arid Climate and Coastal / Maritime Climate.

The Climate of Khyber Pakhtunkhwa varies immensely for a region of its size comparatively small as most of the many climate types are found in the province. Geographically, the province



of Khyber Pakhtunkhwa is divided into two zones, the northern zone and the southern zone. The northern zone scopes from the Hindu Kush to the borders of the Peshawar basin. The climate of the northern zone is snowy and cold with heavy rainfall in winters. It has pleasant summers with moderate rainfall excluding the Peshawar district which is hot in summer. The southern zone ranges from Peshawar to the Derajat basin. It has hot summers with relatively cold winters with minimal rainfall. Dera Ismail Khan is one of the hottest place in Khyber Pakhtunkhwa. Rainfall also varies widely. Although large parts of Khyber Pakhtunkhwa are typically dry, the province also contains the wettest parts of Pakistan in its eastern border especially in monsoon season from mid-June to mid-September.



A monsoon is a seasonal change in the direction of the prevailing or strongest winds of a region, blowing from the south-west between May and September and bringing rain (the wet monsoon) or from the north-east between October and April (the dry monsoon). A monsoon is a shift in winds that often causes a very rainy or very dry season. Monsoons are caused by a change in the direction of the wind that when the seasons



change. In fact, even the word monsoon comes from the Arabic word mausim, which means "season." The failure of the monsoon would destroy harvests on which a billion people rely.

A monsoon is now used to describe seasonal changes in atmospheric circulation, precipitation and is most often associated with the Indian Ocean. Monsoons always blow from cold to warm regions. The duration of the season lies between 100 and 120 days initiating from mid-June to mid-September. At the time of its arrival, the normal rainfall increases suddenly and continues constantly for several days, which is known as the "burst" of the monsoon. During the season winds are classified into Southwest Monsoon and Northeast Monsoon on the basis of the direction from where they blow.

1.3 Climate Change and its Impacts on Khyber Pakhtunkhwa

Climate change refers to long-term shifts in temperatures and weather patterns. Climate change is phenomenon that arises due emissions of greenhouse gases from combustion. deforestation. and industrialization, urbanization resulting variations in solar energy, temperature and precipitation. Shifts in temperature can be natural, due to changes in the sun's activity or large volcanic eruptions. But since the 1800, human activities have been the main driver of climate change, primarily due to the burning of fossil fuels like coal, oil and gas. Hence humans are responsible for global warming.



Khyber Pakhtunkhwa is one of Pakistan's most sensitive province when it comes to the adverse impacts of climate change. The Khyber Pakhtunkhwa as a whole has experienced the climate change impacts in terms of rise in mean temperature from 0.3°C to 1.2°C, average rainfall from 11mm to 15mm (over the thirty years span), changes in precipitation, increases in the frequency or intensity of some extreme weather events, declining biodiversity, insect outbreaks, tree diseases are causing widespread forest die-off and melting glaciers.

MONSOON CONTINGENCY PLAN 2023

The major impacts of Climate Change on Khyber Pakhtunkhwa are:

- i) Soil erosion
- ii) Species extinction
- iii) Variation in precipitation
- iv) Extreme weather events
- v) Increase in surface temperature
- vi) Glacier melting and glacial retreat
- vii) Landslides due to melting permafrost
- viii) Mass migration of humans towards cities
- ix) Seasonal change / shifting weather patterns
- x) Decreased crop yield and changes in food production

1.4 Monsoon Hazards in Khyber Pakhtunkhwa

Khyber Pakhtunkhwa is one of the most disaster-prone areas in this region due to the adverse impacts of climate change. Climate induced hazards are not the only impacts of climate change, which is experienced by Khyber Pakhtunkhwa. In fact, there are other impacts which give rise to many challenges and have caused great misery and suffering due to change of weather patterns.

Major Monsoon hazards in Khyber Pakhtunkhwa are:

- i) Flood
- ii) Cloud Burst
- iii) Wind Storm
- iv) Mini Cyclone
- v) Avalanche
- vi) Landslide
- vii) Heat Wave

MAJOR MONSOON HAZARDS IN KHYBER PAKHTUNKHWA







Flood



Riverine Flood



Flash Flood



Urban Flooding



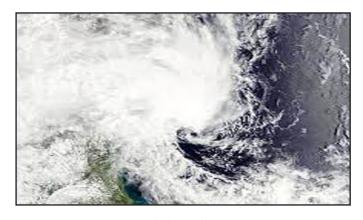
Glacial Lack Outbrust Flood (GLOF)



Cloud Burst



Wind Storm



Mini Cyclone



Avalanche



Landslide



Heat Wave

1.4.1 Flood

Flood is an overflow of water onto land that is normally dry. Floods can happen during heavy rains, when ocean waves come on shore and the water comes from water bodies, such river, lake or ocean in which the water overtops. Floods are often caused by heavy rainfall, rapid snowmelt. Floods can cause widespread devastation.

Floods in 2010 were a climatic phenomenon that played havoc with the lives in large area of Khyber Pakhtunkhwa. The magnitude of the calamity can be gauged from data compiled by the Federal Flood Commission of Pakistan, Islamabad, which states the combined flow of rivers Swat and Kabul touched a new historical height of 400,000 cusecs as compared to the previous figure of 250,000 cusecs, which was recorded in 1929.

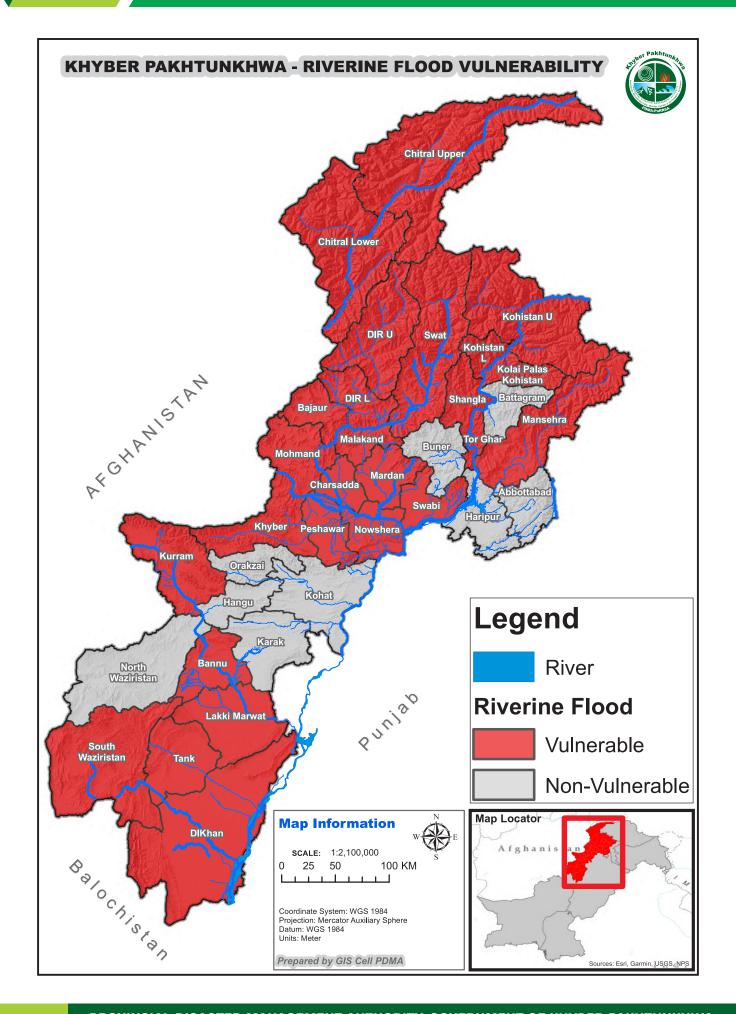
While in 2022 flood, 309 people died and 600,000 others were displaced by floods. Among them were five children in Dir Upper District; they had been returning home from school before they were swept away by the floods and drowned. District Karak, Lakki Marwat, Tank, D.I.Khan, Malakand, Swat, Shangla, Dir Lower, Dir Upper, Chitral Lower, Chitral Upper, Kohistan Lower, Kohistan Upper, Swabi, Mardan, Nowshera, Charsadda and Peshawar were affected.

a. Riverine Flood

Riverine flood occurs when rivers overflow their banks and flow into surrounding areas. Riverine flooding is when streams and rivers exceed the capacity of their natural or constructed channels to accommodate water flow and water overflows the banks, spilling out into adjacent low-lying, dry land. These types of floods can result from torrential rain and depending on the surrounding terrain, can stick around for days or even weeks. It is mostly caused by heavy rainfall, but can also be caused by king tides, storm surge, snowmelt and dam releases.

In Khyber Pakhtunkhwa, it is after the unprecedented 2010 and 2022 floods, that unregulated river flow pattern has resulted in widened spans and has also caused erosion at various places. During monsoon season these trends are likely to render population residing close by at risk undermining the effectiveness of the protective arrangements and risk severance of the bridges and communication infrastructures. Almost ¾ of the whole Khyber Pakhtunkhwa is vulnerable to riverine floods. The map shows vulnerable districts of Khyber Pakhtunkhwa with respect to riverine flood hazard.



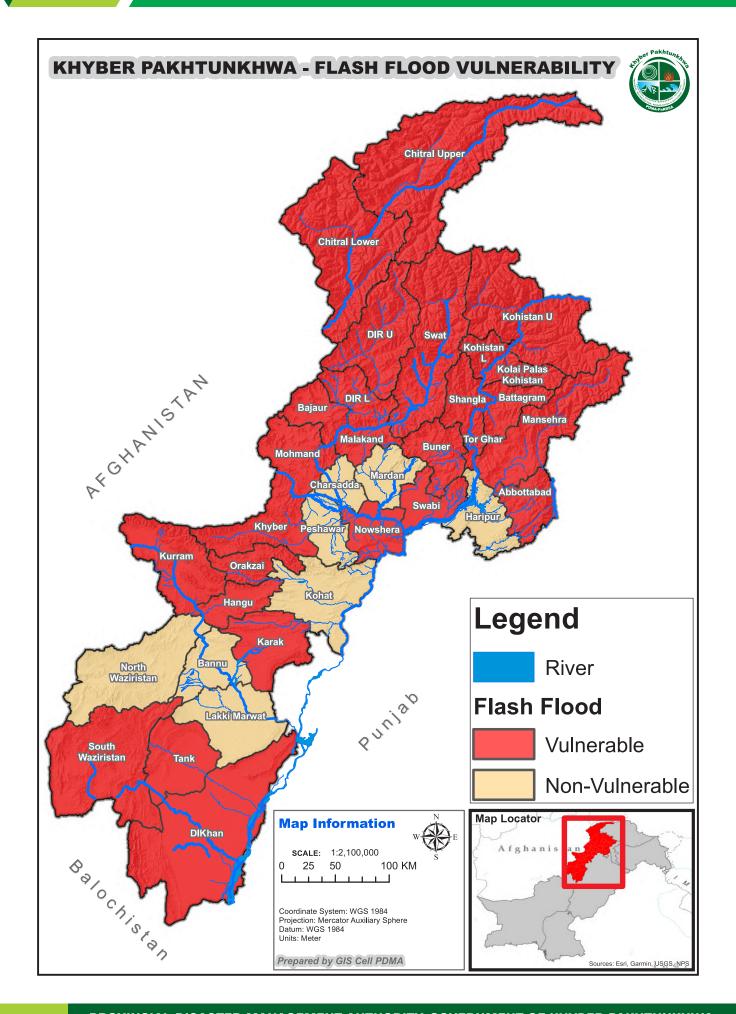


b. Flash Flood

Flash flood occurs due to heavy or excessive rainfall in a short period of time, generally less than 6 hours. Flash floods are usually characterized by raging torrents after heavy rains that rip through river beds, urban streets or mountain canyons sweeping everything before them. They can occur within minutes or a few hours of excessive rainfall. They can also occur even if no rain has fallen, for instance after a dam has failed or after a sudden release of water by a debris or ice jam.

Flash floods are common in desert landscapes after heavy rainfalls and in areas with shallow soil depths above solid bedrock that limits the soil's ability to absorb rain. Since water runs downhill, rainfall will seek the lowest point in a potential pathway. Flash flood in numerous hill torrents across the province is also a common phenomenon. Almost 1/3 area of the Khyber Pakhtunkhwa is vulnerable to flash floods due to rapid changes in the weather pattern. In Khyber Pakhtunkhwa on 13th July, 2020 flash floods triggered by a glacial lake outburst flood destroyed homes and damaged buildings in the Valley of Golen, District Chitral Lower. The map shows vulnerable districts of Khyber Pakhtunkhwa with respect to flash flood hazard.





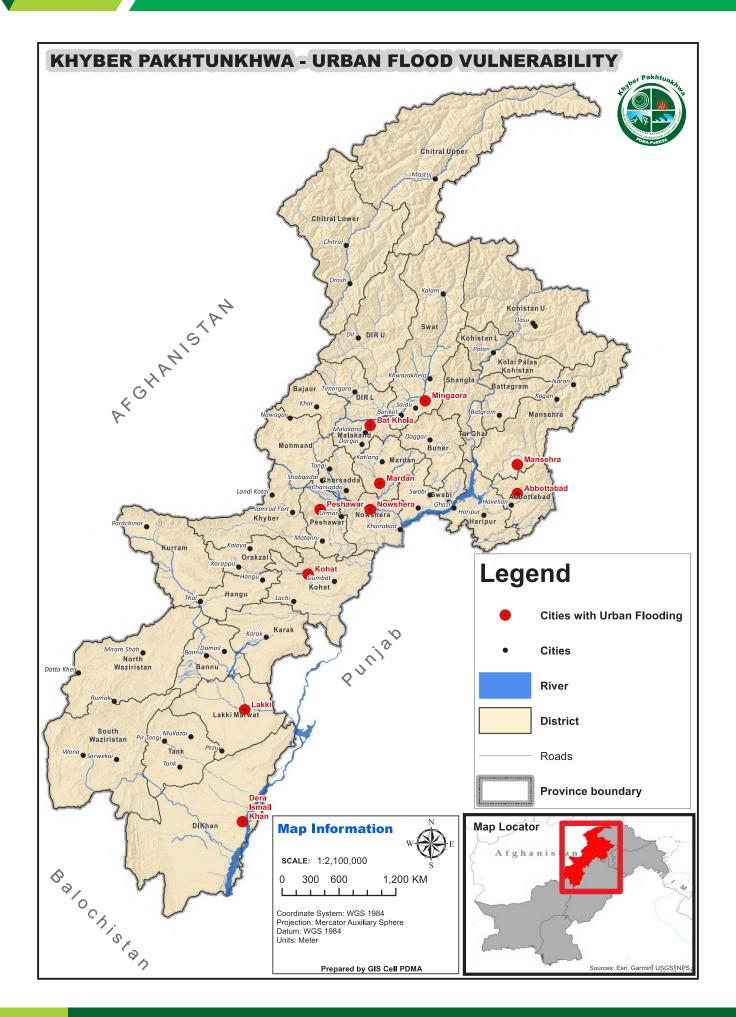
c. Urban Flooding

Urban flooding occurs when city landscapes cannot absorb excess water after prolonged periods of intense rainfall, river overtopping or storm surge. Changes in the environment have already increased flooding across the province.

Immediate impacts of urban flooding include loss of human life, damage to property and non-functioning of infrastructure facilities. Urban flooding disrupts the normal working of the city by damaging water supply, sewerage, power transmission lines, communication, transportation and infrastructures. The environment is further damaged as the vegetation gets washed away during the extreme flow of water. During monsoon season, heavy rains coupled with cloud bursts often put enormous pressure on the drainage system and results in urban flooding in the major cities of Khyber Pakhtunkhwa i.e. Peshawar, Mardan, Kohat, Abbottabad, Swat, Mansehra and D.I.Khan. The map shows vulnerable districts of Khyber Pakhtunkhwa with respect to urban flooding hazard.



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d. Glacial Lake Outburst Flood (GLOF)

Glacial Lake Outburst Floods (GLOFs) is a sudden event which can release millions of cubic meters of water and debris leading to the loss of lives, property and livelihoods in isolated and impoverished mountain villages. Due to rising temperatures, glaciers in Pakistan's northern mountain ranges (the Hindu Kush, Himalayas and Karakorum) are melting rapidly and a total of 3,044 glacial lakes have developed in Gilgit-Baltistan and Khyber Pakhtunkhwa. Out of these, 33 glacial lakes have been assessed to be prone to hazardous glacial lake outburst flooding. Over 7.1 million people in Gilgit-Baltistan and Khyber Pakhtunkhwa are vulnerable in these areas.

In Khyber Pakhtunkhwa in July, 2019 a Glacial Lake Outburst Flood (GLOF) occurred in the remote area of Golen Valley in District Chitral Lower. The flooding swept away roads, bridges, damaged homes, irrigation channels and crops. However, no fatalities were reported because the communities received early warning of the approaching flood and the event is seen as a major success in disaster prevention.

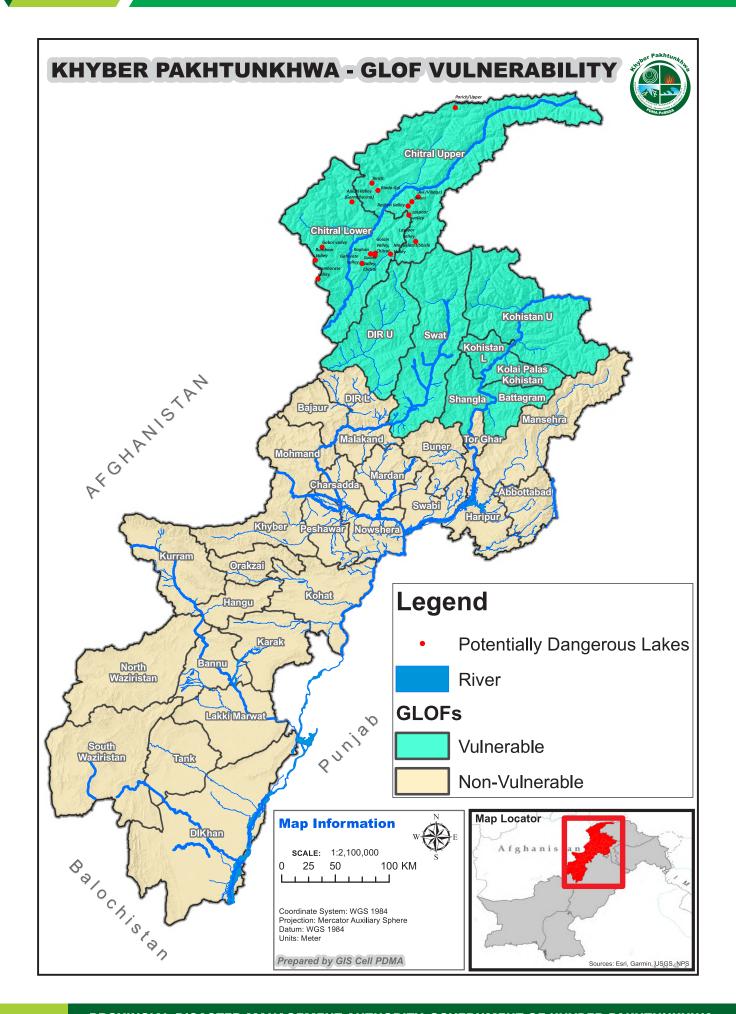
Another event on 13th July, 2020 of Glacial Lake Outburst Flood (GLOF) occurred in the Golen Valley of District Chitral Lower. This event resulted in fully destroyed 02 houses, partially damaged 08 houses and 06 other buildings including shops, masajids and bridges were also damaged. Power and water infrastructure was damaged and roads were also washed away.

In the context of Resilient Khyber Pakhtunkhwa, the Provincial Disaster Management Authority (PDMA) with the collaboration of United Nations Development Program (UNDP) initiated a project called "Glacial Lake Outburst Floods (GLOFs)" which includes construction of small scales infrastructures in the targeted valleys of Khyber Pakhtunkhwa. This project is working in 08 valleys of the 05 districts of Khyber Pakhtunkhwa to help vulnerable communities prepare for and mitigate GLOF risks through early warning systems and community-based disaster risk management. The GLOF targeted valleys are:

i)	Reshun Valley	District Chitral Upper
ii)	Arkari Valley	District Chitral Lower
iii)	Madaklusht Valley	District Chitral Lower
iv)	Thall, Kumrat Valley	District Dir Upper
v)	Gabral Valley	District Swat
vi)	Matiltan Valley	District Swat
vii)	Mankiyal Valley	District Swat
viii)	Gabriel, Kandia Valley	District Kohistan Upper

The map shows vulnerable districts of Khyber Pakhtunkhwa with respect to GLOF hazard.





1.4.2 Cloud Burst

Cloud burst result in a sudden very heavy rainfall (approximately 100 km/hr) usually local in nature and of brief duration. It occurs in connection with thunderstorms. Cloud bursts causes havoc and destruction on a large scale and also occasionally accompanied by hailstorms and thunder, which is capable of creating flood. Continuous and violent rainfall can result in heavy floods that can be dangerous.

Cloud bursts happen when saturated clouds are unable to produce rain because of the upward movement of very warm current of air. Instead of dropping down, raindrops get bigger in size and get pushed up due to the air current. Eventually they become too heavy to hold and drop down, leading to more rain than usual.

In Khyber Pakhtunkhwa on 29th August, 2020 at least 20 people were killed and nine suffered injuries in the districts of Kohistan, Swat and Shangla and also on 12th September, 2021 at least 14 people, including eight women and children were killed after several houses collapsed in district Torghar. These incidents occurred due to cloud bursts. The result of cloud bursts phenomena is flash flood and landslides.

1.4.3 Wind Storm

Wind Storm is a wind that is strong enough to cause at least light damage to trees and buildings. Wind storm marked by high wind with little or no precipitation. Windstorm damage often opens the door for massive amounts of water and debris.

In Khyber Pakhtunkhwa on 02nd April, 2021 a strange weather phenomenon had hit the city of Peshawar and many other parts of the province for three days due to strong wind storm. The wind was so powerful it uprooted even big trees. In another event on 13th June, 2021 in Khyber Pakhtunkhwa 5 killed, 6 injured and eight houses also collapsed when heavy rains coupled with strong winds hit the province. The biggest impact of the windstorm was on electricity transmission lines across the province because power distribution system was disrupted as trees fell on transmission lines and poles. The heavy storm packed a speed of 55 km/hr and sometimes even as high as 75 km/hr. Another event of windstorm occured on 10th June 2023 in the districts of Bannu, Lakki Marwat, Karak and D.I.Khan.

1.4.4 Mini Cyclone

Cyclone is a large air mass that rotates around a strong center of low atmospheric pressure, counter clockwise in the Northern Hemisphere and clockwise in the Southern Hemisphere. Cyclone occurs chiefly in the middle and high latitude belts of both hemispheres. A cyclone is another name for a low-pressure area. Cyclones are caused by atmospheric disturbances around a low-pressure area distinguished by swift and often destructive air circulation.

In Khyber Pakhtunkhwa on 26th April, 2015 district Peshawar, Charsadda and Nowshera were hit by an unusual mini-cyclone. The cyclone was followed by torrential rains, hail storm and whirling winds at a speed of 110 km/hr. Pakistan Meteorological Department (PMD) declared that it was the third severe storm in the history of Pakistan and first in Khyber Pakhtunkhwa. The Cyclone claimed 47 lives and left hundreds of people injured. The Wahid Garhi, Village of Union Council Khazana of District Dir Lower was severely hit by the mini cyclone. Besides uprooting poles, signboards trees and orchards the catastrophic storm also destroyed standing crops, especially the wheat crop which was ready to be harvested and caused huge damages to housing infrastructures.

The Provincial Disaster Management Authority, Khyber Pakhtunkhwa had issued an alert on 2nd May, 2016 about mini cyclone and dust storm in different parts of province. At least two children died and one injured when the roof of house collapsed. The deceased included an eight-year-old girl and a five-year-old boy. The storm had an intensity of over 50 km/h. Poles, signboards and trees were uprooted by strong winds blowing at the speed of 50 km/hr. Numerous buildings also affected due to the thundering rain. Electricity and communication system throughout the city faced disruption.

1.4.5 Avalanche

Avalanche is a mass of snow, rock, ice, soil and other material that slides swiftly down a mountainside. Avalanche of rocks or soil are often called landslides. Snow slides, the most common kind of avalanche can sweep downhill faster than the fastest skier. An avalanche is a rapid flow of snow down a slope, such as a hill or mountain. Avalanche can be set off spontaneously by factors such as increased precipitation or snowpack weakening.

There are two main types of avalanches, one is loose-snow avalanches and the other is slab avalanches. An avalanche starts when a layer in the snowpack becomes overloaded and fails. Avalanches are caused by four factors i.e. a steep slope, snow cover, a weak layer in the snow cover and a trigger. Roads and railway tracks may be rerouted to reduce risks. Safe avalanches may be triggered in dangerous snow packs.

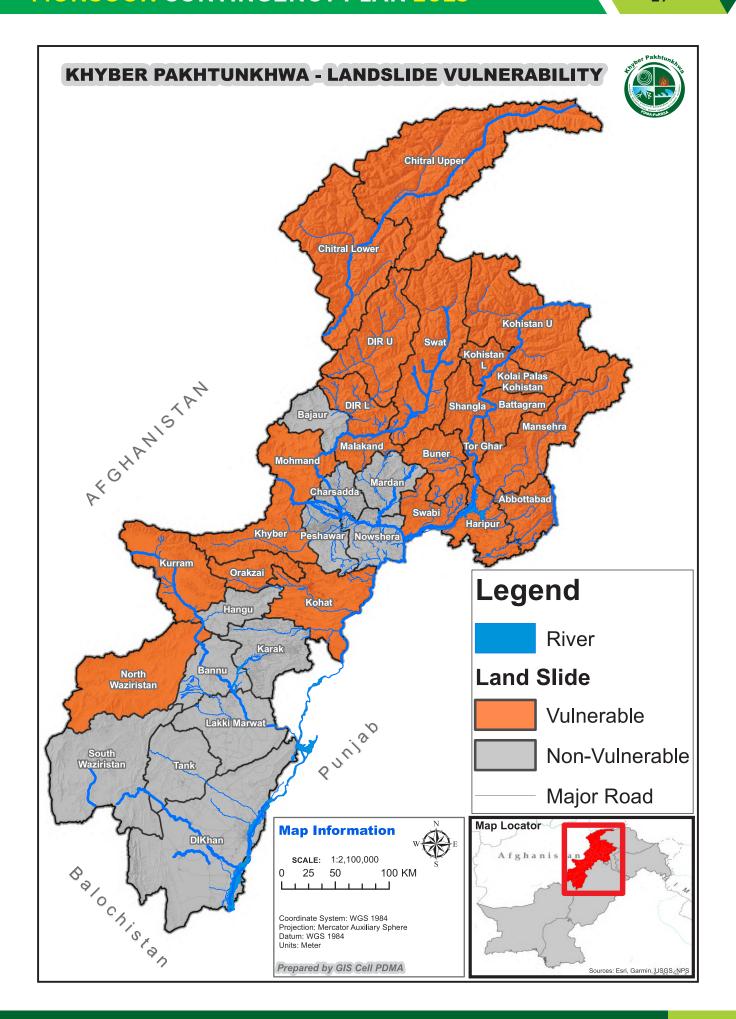
In Khyber Pakhtunkhwa on 10th March, 2020 an avalanche occurred in Nathia Gali Town, District Abbottabad, killing at least 4 people and injuring 29 others. Over 20 people were missing. In another event on 12th January, 2021 an avalanche occurred in District Mansehra, resulting in fatalities, at least four people had died. In another event on 27th January, 2023 at least four people had been killed including a man and his son in an avalanche in Usheri Darra area of District Dir Upper when they were chopping timber from a fallen tree. They were buried in the snow and all of them died due to cold. An avalanche is an incredibly destructive force of nature flattening trees on the hillside and in the process, destroying the ecosystem and killing plants, animals, insects, and unfortunately sometimes people.

1.4.6 Landslide

Landslide is the movement of a mass of rock, debris or earth down a slope. Landslides are a type of "mass wasting," which denotes any down-slope movement of soil and rock under the direct influence of gravity. Landslides also known as landslips are several forms of mass wasting that may include a wide range of ground movements, such as rock falls, shallow or deep-seated slope failures, mudflows and debris flows. Landslide often takes place in conjunction with earthquakes, floods and volcanoes. Meanwhile a prolonged spell of rainfall can also cause a landslide.

In Khyber Pakhtunkhwa on 20th January, 2022 a heavy rain had caused damage to homes and triggered landslides. At least 8 people had lost their lives due to landslide near Alpuri, capital of District Shangla. 5 bodies had been recovered with at least 1 person thought to be missing. Six people were rescued and survived. A major road was blocked and a family home completely destroyed. In another event occurred on 18th April, 2023 huge landslide hit an area near Torkham border District Khyber crossing between Pakistan and Afghanistan at least three dead and several others and 20 vehicles, including large trucks, under the rubble. In-charge operation of this event told that "This is not a small landslide that can be cleaned up quickly. We have more than 60 people working here to remove the rubble. It's like an entire mountain has collapsed." The map shows vulnerable districts of Khyber Pakhtunkhwa with respect to Landslide hazard.





1.4.7 Heat Wave

According to Pakistan Metrological Department (PMD), heave wave is the condition where the maximum temperature situation reaches to 40 °C for the plain and 30 °C for the hilly area with the departure from the normal 4.5 °C to 6.4 °C. The World Metrological Organization defines a Heat Wave is 5 or more consecutive days during which the daily maximum temperature exceeds the average maximum temperature by five degrees Celsius. The combination of heat and humidity (wet bulb temperature) exceeds the temperature of human body which may lead to heat strokes. The situation of heat wave may cause heat strokes mainly in urban centers affecting the most vulnerable.

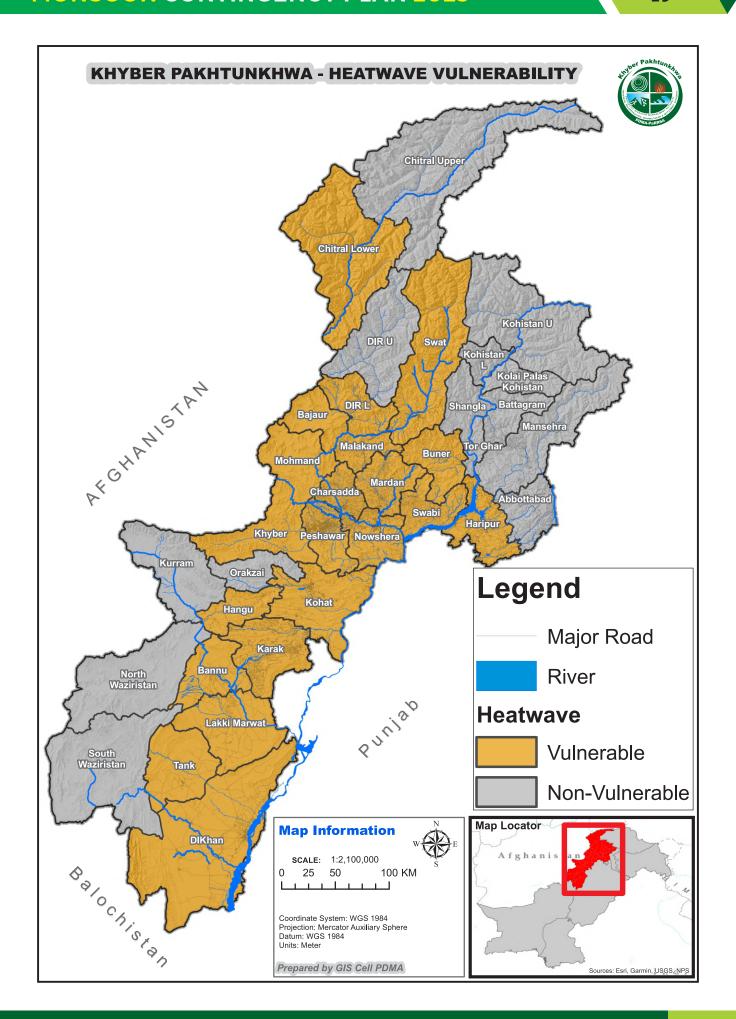
There are various causes of heat wave that range from atmospheric conditions to human activities resulting in release of heat in the atmosphere. The major causes that further decrease the capacity of inhabitants to combat adverse impacts of heat wave includes:

- i) Water supply constraints.
- ii) Lack of hygiene practices.
- iii) Atmospheric conditions of the area.
- iv) Frequent and prolonged power outages.
- v) Persistent and somewhat unplanned urbanization.
- vi) Deforestation, lack of green areas and open spaces.

A Heat Wave Contingency Plan (2023) has already been prepared by the Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa and is available on PDMA website (www.pdma.gov.pk).

The below map shows vulnerable districts of Khyber Pakhtunkhwa with respect to Heat Wave hazard.

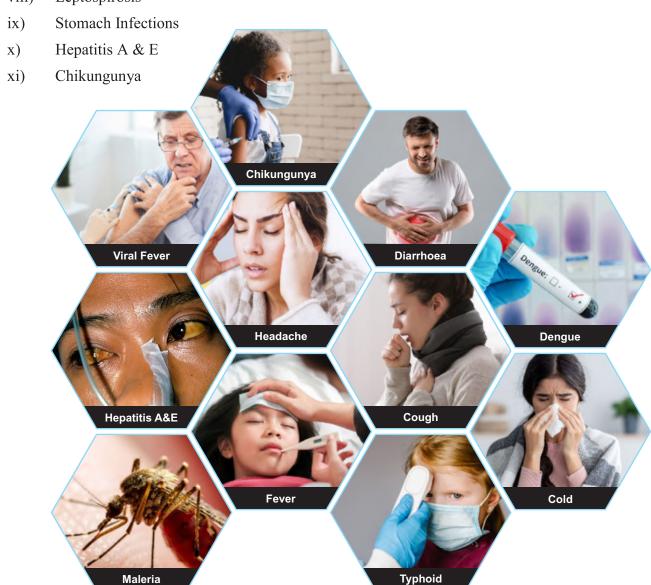




1.5 Most Common Monsoon Diseases

The monsoon season is a respite for everyone as it comes after summers, refreshes everyone and a welcome change from the unpleasant scorching heat but the climatic change and changing weather conditions causes different types of monsoon diseases due to harmful viruses. The following are the most common monsoon diseases:

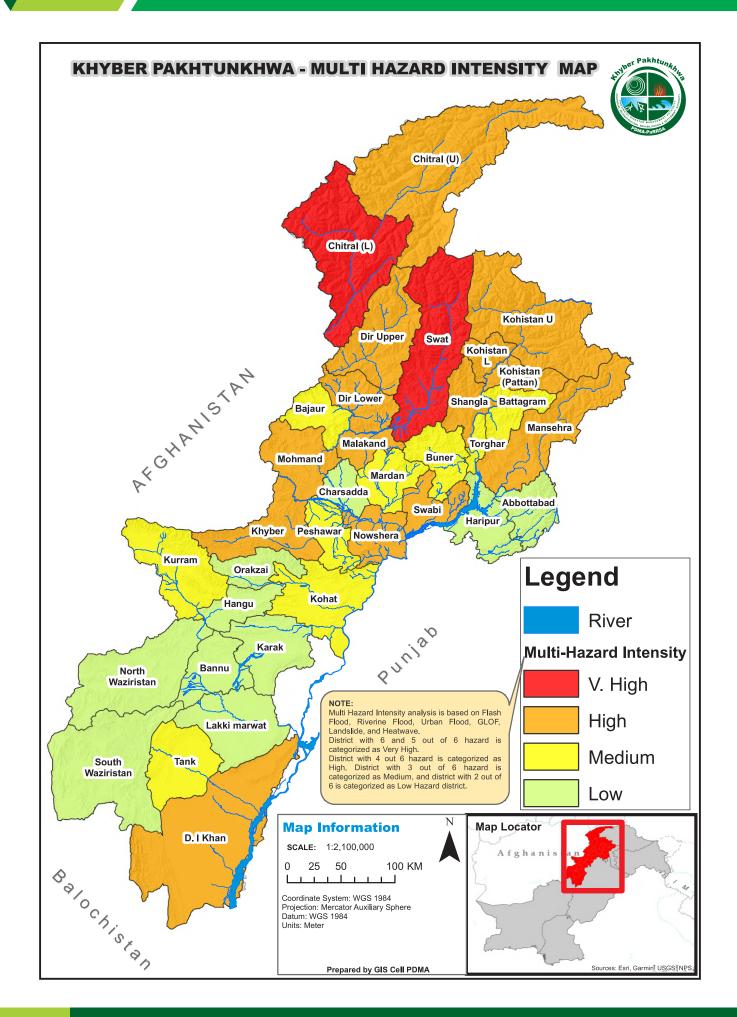
- i) Dengue
- ii) Malaria
- iii) Cholera
- iv) Typhoid
- v) Viral fever
- vi) Diarrhea
- vii) Influenza
- viii) Leptospirosis



1.6 Monsoon Hazards Vulnerability Matrix of Khyber Pakhtunkhwa

S.No.	District	Riverine Flood	Flash Flood	Urban Flood	GLOF	Landslide	Heat Wave
1	Abbottabad	No	Yes	Yes	No	Yes	No
2	Bajaur	Yes	Yes	No	No	No	Yes
3	Bannu	Yes	No	No	No	No	Yes
4	Battagram	No	Yes	No	No	Yes	No
5	Buner	No	Yes	No	No	Yes	No
6	Charsadda	Yes	No	No	No	No	Yes
7	Chitral Lower	Yes	Yes	No	Yes	Yes	Yes
8	Chitral Upper	Yes	Yes	No	Yes	Yes	No
9	D.I.Khan	Yes	Yes	Yes	No	No	Yes
10	Dir Lower	Yes	Yes	No	No	Yes	Yes
11	Dir Upper	Yes	Yes	No	Yes	Yes	No
12	Hangu	No	Yes	No	No	No	Yes
13	Haripur	No	Yes	No	No	Yes	Yes
14	Karak	No	Yes	No	No	No	Yes
15	Khyber	No	Yes	No	No	Yes	Yes
16	Kohat	No	Yes	Yes	No	No	Yes
17	Kohistan Lower	Yes	Yes	No	Yes	Yes	No
18	Kohistan Upper	Yes	Yes	No	Yes	Yes	No
19	Koli Palas	Yes	Yes	No	Yes	Yes	No
20	Kurram	Yes	Yes	No	No	Yes	No
21	Lakki Marwat	No	Yes	No	No	No	Yes
22	Malakand	Yes	Yes	No	No	Yes	Yes
23	Mansehra	No	Yes	No	No	Yes	No
24	Mardan	Yes	Yes	Yes	No	No	Yes
25	Mohmand	Yes	Yes	No	No	Yes	Yes
26	Nowshera	Yes	Yes	Yes	No	No	Yes
27	Orakzai	No	Yes	No	No	Yes	No
28	Peshawar	Yes	Yes	Yes	No	No	Yes
29	Shangla	Yes	Yes	No	No	Yes	No
30	Swabi	Yes	Yes	No	No	No	Yes
31	Swat	Yes	Yes	Yes	Yes	Yes	Yes
32	Tank	Yes	Yes	No	No	No	Yes
33	Torghar	Yes	Yes	No	No	Yes	No
34	North Waziristan	No	Yes	No	No	Yes	No
35	South Waziristan	Yes	Yes	No	No	No	No

Source: DMIS Data of PDMA Khyber Pakhtunkhwa



1.7 Hydrology of Khyber Pakhtunkhwa

Hydrology is the scientific study of the movement, distribution and management of water on Earth and other planets, including the water cycle, water resources and drainage basin sustainability. It is the science that encompasses the study of water on the Earth's surface and beneath the surface of the Earth, the occurrence and movement of water, the physical and chemical properties of water and its relationship with the living and material components of the environment.

The rivers flowing across the province of Khyber Pakhtunkhwa are Indus, Kabul, Badrai, Bara, Dor, Gambila, Gomal, Haro, Jindi, Kurram, Kunar, Kunhar, Khiali, Panjkora, Swat, Siran and Zhob.

1.7.1 Flood Categorization of Major Rivers and Nullahs of Khyber Pakhtunkhwa

Floods usually occur during monsoon season in different river systems of Khyber Pakhtunkhwa. Due to the geography and terrain of the area, all rivers in the province are fed by hill torrents, nullahs and streams in catchment areas of mountainous regions. In order to determine flood levels, historical pattern of monsoon floods in the province has been reviewed and rivers have been categorized in three broad categories;

i) Category A (Frequently Flood):

Category A is those rivers which receive floods of different magnitude frequently every year. The rivers are Kabul, Khiali (Peshawar), Khiali Adezai, Panjkora, Kunhar, Naguman, Shah Alam, Kurram, Siran, Kohat Toi, Tochi and nullahs are Budni (Peshawar), Kalpani (Mardan) and Jabb (Abbottabad).

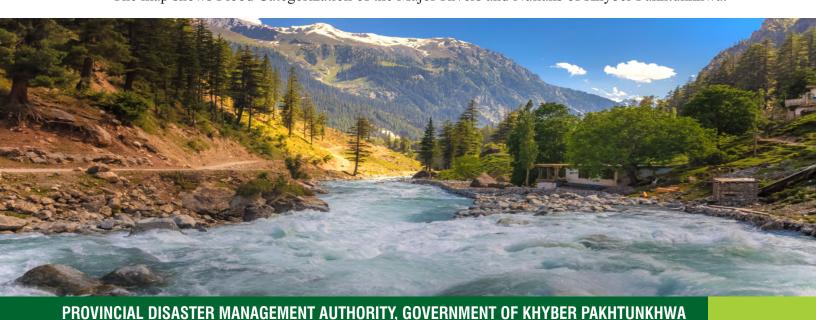
ii) Category B (Less Frequently Flood):

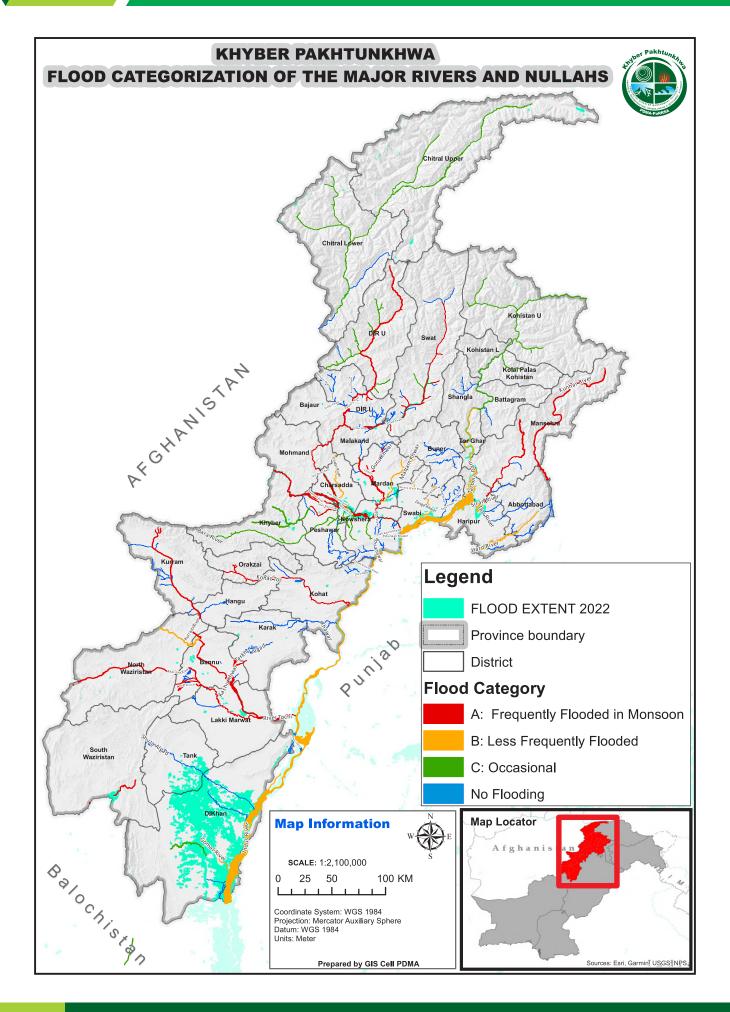
Category B is those rivers which receive less frequent floods. The rivers are Jindi, Gomal Zam, Kaitu, Indus, Haro and nullahs are Badri, Naranji, Dalas, Mukam and local hill torrents in the North Areas of Khyber Pakhtunkhwa.

iii) Category C (Occasional Flood):

Category C is those rivers which receives occasional floods situation as a result of heavy concentrated rainfall in their catchment areas. The rivers are Chowdhwan Zam, Sheikh Haider Zam and nullahs are Chila, Chinkar, Gharandi, Ghari, Balar Dagi, Khudrazai and khawars are Rustam and khawar at Khyber Agency.

The map shows Flood Categorization of the Major Rivers and Nullahs of Khyber Pakhtunkhwa.





1.7.2 Discharge Limit Chart of Rivers, Khwars and Nullahs of Khyber Pakhtunkhwa (10-04-2023)

S.No.	Name of River / Khwar / Nullah	Low Flood (cfs)	Med Flood (cfs)	High Flood (cfs)	Very High Flood (cfs)	Highest Flood Recorded (cfs)	Highest Flood Date
1	Kabul River at Warsak	40000	60000	100000	150000	159000	28-06-1905
2	Chilla Nullah at Pabbi	3000	10000	17500	25000	28620	29-08-1979
3	Hakim Ghari Nullah at Pabbi	2500	5000	7000	10000	10650	08-07-1983
4	Khudrizai Nullah at Pabbi	1000	1250	1500	2000	2500	09-08-1984
5	Sheen Hall Khwar at Rustum	3000	7500	10000	15000	17934	11-08-1988
6	Kunhar River at Balakot	20000	40000	60000	80000	92000	08-01-1992
7	Siran River at Daryal	15000	30000	40000	50000	55181	08-01-1992
8	Dour River at Rajoya	10000	25000	35000	70000	75970	08-01-1992
9	Haro River at Jabori	10000	20000	35000	55000	82876	08-01-1992
10	Garandi Nullah at Urmar	2000	3000	4000	6000	7000	19-08-2003
11	Bara River at Chamkani	10000	25000	30000	40000	48000	12-08-2007
12	Takhta Baig Khwar at Khyber	7500	15000	30000	80000	123000	04-08-2008
13	Budni Nullah at Darmangi	6000	16000	20000	45000	123000	04-08-2008
14	Dallus Nullah at Warsak Road	3000	8000	15000	18000	21700	08-08-2010
15	Shahi Bala Khwar	3000	7500	12000	15000	19000	08-08-2010
16	Kalpani Nullah at Mardan City	20000	30000	40000	60000	80315	07-01-2010
17	Kohat Toi	7000	15000	25000	40000	50000	28-07-2010
18	Kurram River at Kurram Ghari	30000	50000	80000	100000	200000	28-07-2010
19	Gambila River at Gambila Lakki	15000	25000	45000	55000	64024	28-07-2010
20	Chikar Nullah at Pabbi	3000	7500	12000	15000	14800	29-07-2010
21	Kabul River at Nowshera	60000	90000	140000	200000	450000	29-07-2010
22	Swat River at Munda H/W	40000	60000	80000	150000	355000	29-07-2010
23	Jindi Khwar at Utmanzai	6000	9000	16000	20000	25000	29-07-2010
24	Balar Khwar at Mardan	3000	10000	20000	30000	42000	29-07-2010
25	Dagi Nullah at Pabbi	1500	2500	3500	4000	5000	29-07-2010
26	Indus River at Tarbela (Inflow)	250000	375000	500000	650000	650000	30-07-2010
27	Indus River at Tarbela (outflow)	250000	375000	500000	650000	650000	30-07-2010
28	Indus River at Attock Khairabad	225000	375000	500000	650000	994600	30-07-2010
29	Swat River at Chakdara	30000	50000	70000	100000	360000	30-07-2010
30	Swat River at Khaili Charsadda Road	40000	60000	80000	120000	360000	30-07-2010
31	Kalpani Nullah at Chowki Risalpur	20000	40000	50000	60000	118604	30-07-2010
32	Badri Nullah at Swabi	7500	15000	35000	50000	60000	30-07-2010
33	Naguman River Charsadda Road	10000	20000	30000	50000	75575	30-07-2010
34	Shah Alam River at Takht Abad	5000	7500	12500	15000	20000	30-07-2010
35	Naranji Nullah at Swabi	5000	10000	20000	35000	45000	2010
36	Jindi River at Charsadda	7500	10000	15000	20000	42000	30-07-2010
37	Muqam Nullah at Shahbaz garhi	3000	8000	15000	30000	45000	2010
38	Swat River at Khwazakhela	30000	45000	60000	80000	246392	26-08-2022
39	Panjkora River At Zulam Bridge (DIR)	20000	30000	50000	75000	139510	26-08-2022
40	Kabul River at Adezai Bridge	30000	50000	70000	80000	90200	27-08-2022

Source: Irrigation Department, Khyber Pakhtunkhwa

Remarks:

- 1. All these are natural Rivers / Khwars / Nullahs and Water Ways not made or designed by the Executive Engineer.
- 2. The discharges are calculated on the basis of flows passing through it on long term averages.

1.7.3 Time Lag for Major Rivers in Khyber Pakhtunkhwa

S.No.	Location	Distance (km)	Time Lag				
1	Swat / Khiali River						
i	Khawaza Khela to Amandara	65	12 Hours				
ii	Amandara to Munda	85	09 Hours				
iii	Munda to Charsadda Road	40	6.5 Hours				
2	Kabul River						
i	Warsak to Charsadda Road Peshawar	25	04 Hours				
ii	Charsadda Road to Nowshera	35	06 Hours				
iii	Nowshera to Indus River	30	05 Hours				
3	Indus River						
i	Jinnah Barrage to Chashma Barrage	56	4.5 Hours				
ii	Chashma to D.I. Khan	100	12.5 Hours				
iii	D.I Khan City to Ramak	70	09 Hours				

Source: Irrigation Department, Khyber Pakhtunkhwa

1.7.4 Over View of Hydro-Meteorological Events in Khyber Pakhtunkhwa

The hydro-meteorological disasters around the globe are on the rise. Pakistan is also no exception to this phenomenon due to the effects of climate change, its uneven topography and is therefore vulnerable to flood risks. Since 1900, Pakistan has been affected by floods of various magnitudes for almost 67 times.

The province of Khyber Pakhtunkhwa is more vulnerable to floods due to its climate and physiography. Climate change has increased the intensity and frequency of the hazards faced by province. The river Kabul, Indus and Swat are the hazard prone rivers and cause floods especially during the monsoon season. The high mountains in the north of the province receive heavy precipitation, which lead to severe fluctuations in the river runoff and causes floods. The human induced causes of floods include encroachments to rivers, deforestation and lack of flood plain regulations. Since 1973, the province has encountered frequent floods almost every year. Studies showed that there is one major flood after every three years that causes damages to standing crops, houses and humans.

The changes in the monsoon pattern is getting worse and Khyber Pakhtunkhwa has experienced sever hydro metrological hazards. Some of the major events / hazards occurred during the last decade are;

- i) Flood September 1992
- ii) Flood July & August 2007
- iii) Mega Flood July 2010 (Pakistan)
- iv) Flood August 2011 (District Kohistan)
- v) Flood September 2012
- vi) Flood September 2014
- vii) GLOF 2014-15
- viii) Flood March 2016

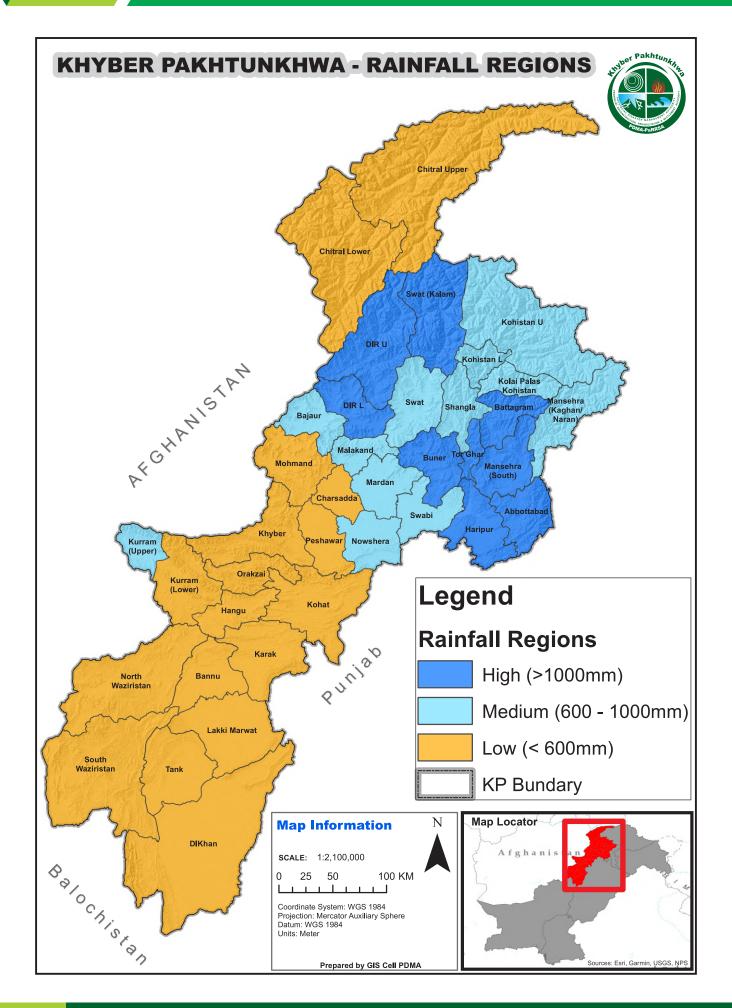
MONSOON CONTINGENCY PLAN 2023

- ix) Flood April 2019
- x) GLOF 7th July 2019 (Golen Valley District Chitral Lower)
- xi) Avalanche 10th March 2020 (Nathia Gali District Abbottabad)
- xii) GLOF 13th July 2020 (Golen Valley District Chitral Lower)
- xiii) Cloud Burst 29th August 2020 (Districts Kohistan, Swat & Shangla)
- xiv) Avalanche 12th January 2021 (District Mansehra)
- xv) Wind Storm 2nd April 2021 (District Peshawar)
- xvi) Wind Storm 13th June, 2021 (Districts of Khyber Pakhtunkhwa)
- xvii) Cloud Burst 12th September, 2021 (District Torghar)
- xviii) Landslide 20th January 2022 (Alpuri, District Shangla)
- xix) Super Flood August 2022 (Pakistan)
- xx) Avalanche 27th January 2023 (Usheri Darra, District Dir Upper)
- xxi) Landslide 18th April 2023 (Torkham, District Khyber)
- xxii) Wind Storm 10th June 2023 (Bannu, Lakki Marwat, Karak and D.I.Khan)

1.8 Rainfall Trend Analysis of Khyber Pakhtunkhwa

Climate change is a multidimensional phenomenon, which has various effects on people's environmental and socioeconomic conditions. Climate change, especially the changes in annual temperature and rainfall has attracted widespread attention worldwide. The variability of these factors or the magnitude of fluctuations varies according to location. The rainfall trend analysis of Khyber Pakhtunkhwa is based on the historical data were provided by Pakistan Meteorological Department (PMD), Islamabad for the period 1960–2020. The Map shows the Rainfall in different parts of the province of Khyber Pakhtunkhwa.



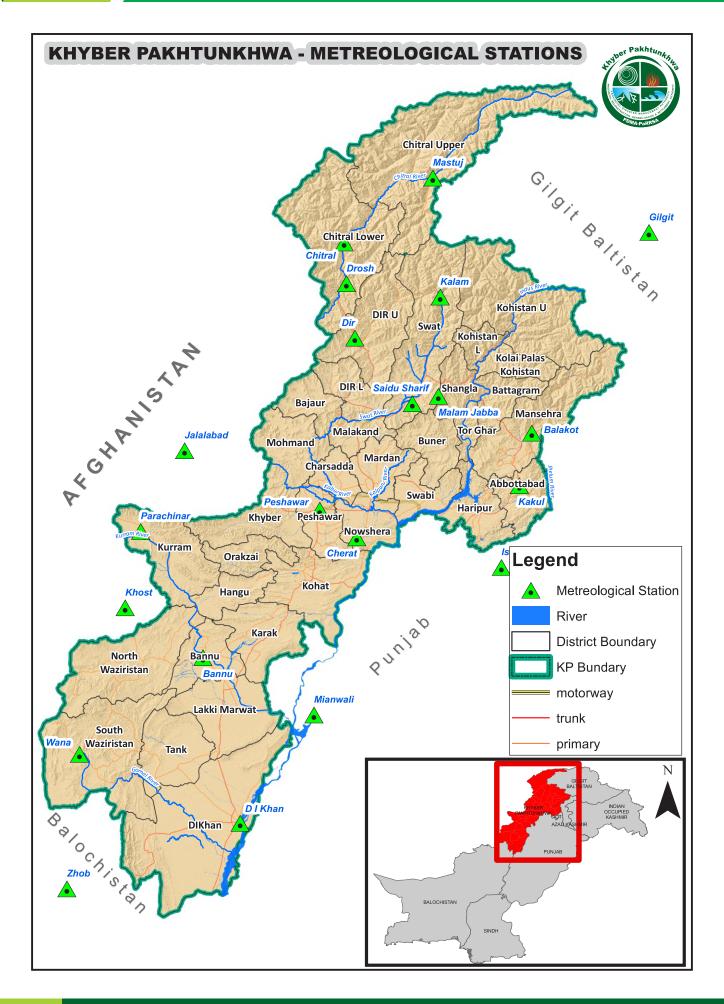


1.8.1 Annual Rainfall Trend Analysis of Khyber Pakhtunkhwa (Based on Last 60 Years Meteorological Data)

To determine the Annual Rainfall Trend Analysis and the accuracy of predicted temperature of Khyber Pakhtunkhwa, Pakistan Meteorological Department (PMD), Islamabad was provided the rainfall and temperature data from Metreological Stations throughout Khyber Pakhtunkhwa based on last 60 years (Period 1960–2020). The data shows that in the past few decades, some areas (Peshawar, Dera Ismail Khan & Swat) of Khyber Pakhtunkhwa have seen unprecedented rainfall, causing catastrophic floods of more than 400,000 cusecs, surpassing the 1929 floods (250,000 cusecs) which badly affected all the three regions. Due to changes in weather patterns, Khyber Pakhtunkhwa has often been threatened by floods and droughts in recent years. By analyzing the data trend from these three areas, a significant coverage is being given to North (Malakand & Hazara Divisions), South (D.I.Khan & Bannu Divisions) and in the Centre (Peshawar & Mardan Divisions).

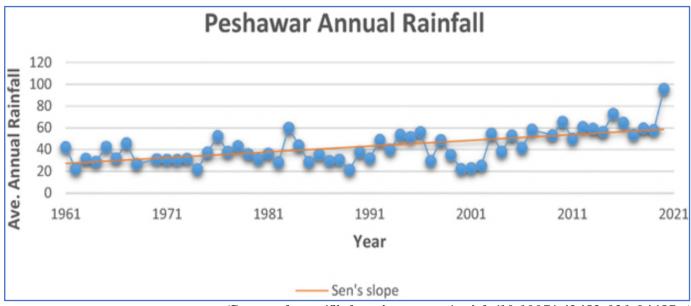


PROVINCIAL DISASTER MANAGEMENT AUTHORITY, GOVERNMENT OF KHYBER PAKHTUNKHWA



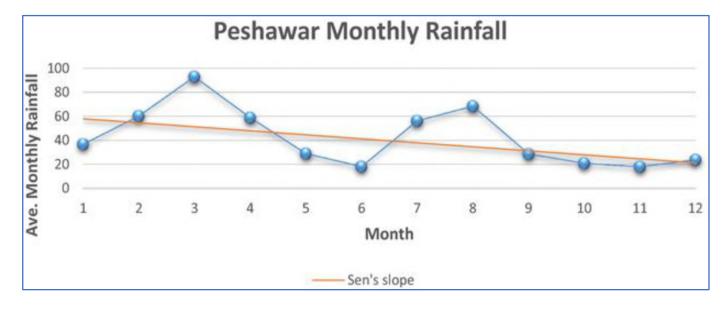
a. Average Annual & Monthly Rainfall (in MM) Trend in Central Region of Khyber Pakhtunkhwa (Peshawar, Mardan & Kohat Divisions)

In the past 60 years there has been a gradual increase when it comes to the Central Districts of Khyber Pakhtunkhwa. There is a gradual increase of almost 35 mm of average annual rainfall from previously 25 mm to 60 mm.



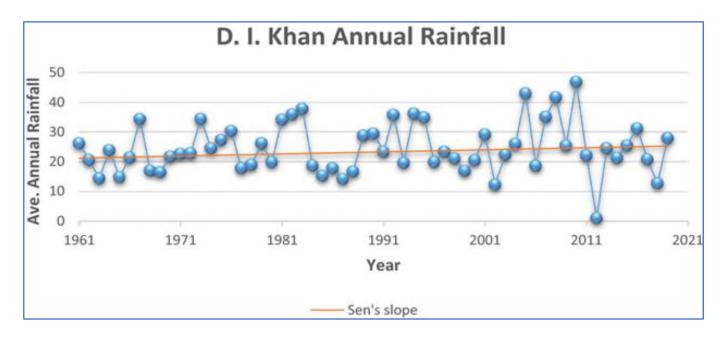
(Source: https://link.springer.com/article/10.1007/s42452-021-04457-z)

For Peshawar and its surrounding districts on average there have been significantly more rains during the month of March and accordingly during October, November and December the rainfall trend is at the lowest.

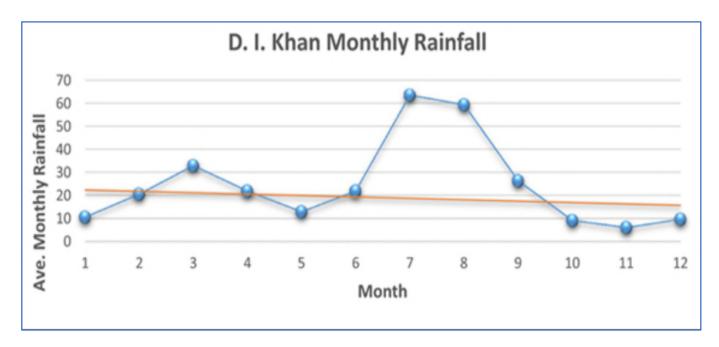


b. Average Annual & Monthly Rainfall (in MM) Trend in Southern Region of Khyber Pakhtunkhwa (D.I.Khan & Bannu Divisions)

In comparison to Central Districts in the South there has been minimal increase of only 5 mm on average in the past 60 years. The gradual increase started from 25 mm of average annual rainfall to now 30 mm.

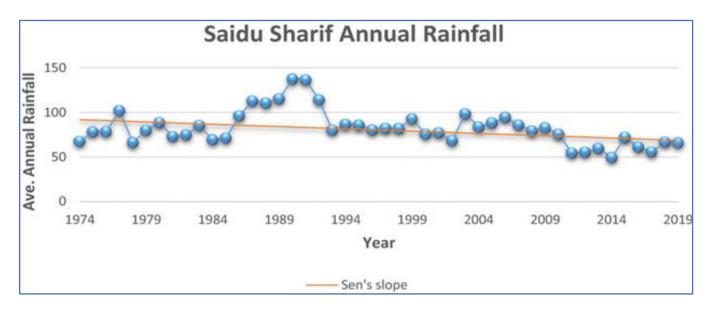


In contrast to Peshawar, the Monthly average rainfall in D.I.Khan is at its max during the Monsoon where it had even peaked to 65 mm on average. There have been significantly more rains during the month of July and August and accordingly during October, November and December the rainfall trend is at its lowest.

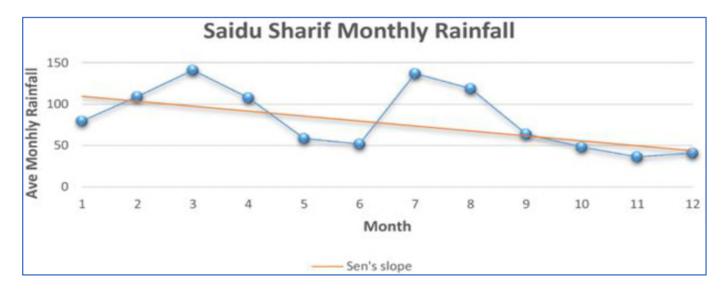


c. Average Annual & Monthly Rainfall (in MM) Trend in Northern Region of Khyber Pakhtunkhwa (Malakand & Hazara Divisions)

In Swat and its surrounding districts, a gradual decrease has been recorded in average annual rainfall during the past 45 years on average the annual rainfall has decreased from approximately 95 mm to 65 mm.



In Swat the average monthly rainfall trend has two peak periods i.e. in March and then in July. The average monthly rainfall is approximately 145 mm during these peak time periods and goes down to 40-45 mm during the months of October, November and December.



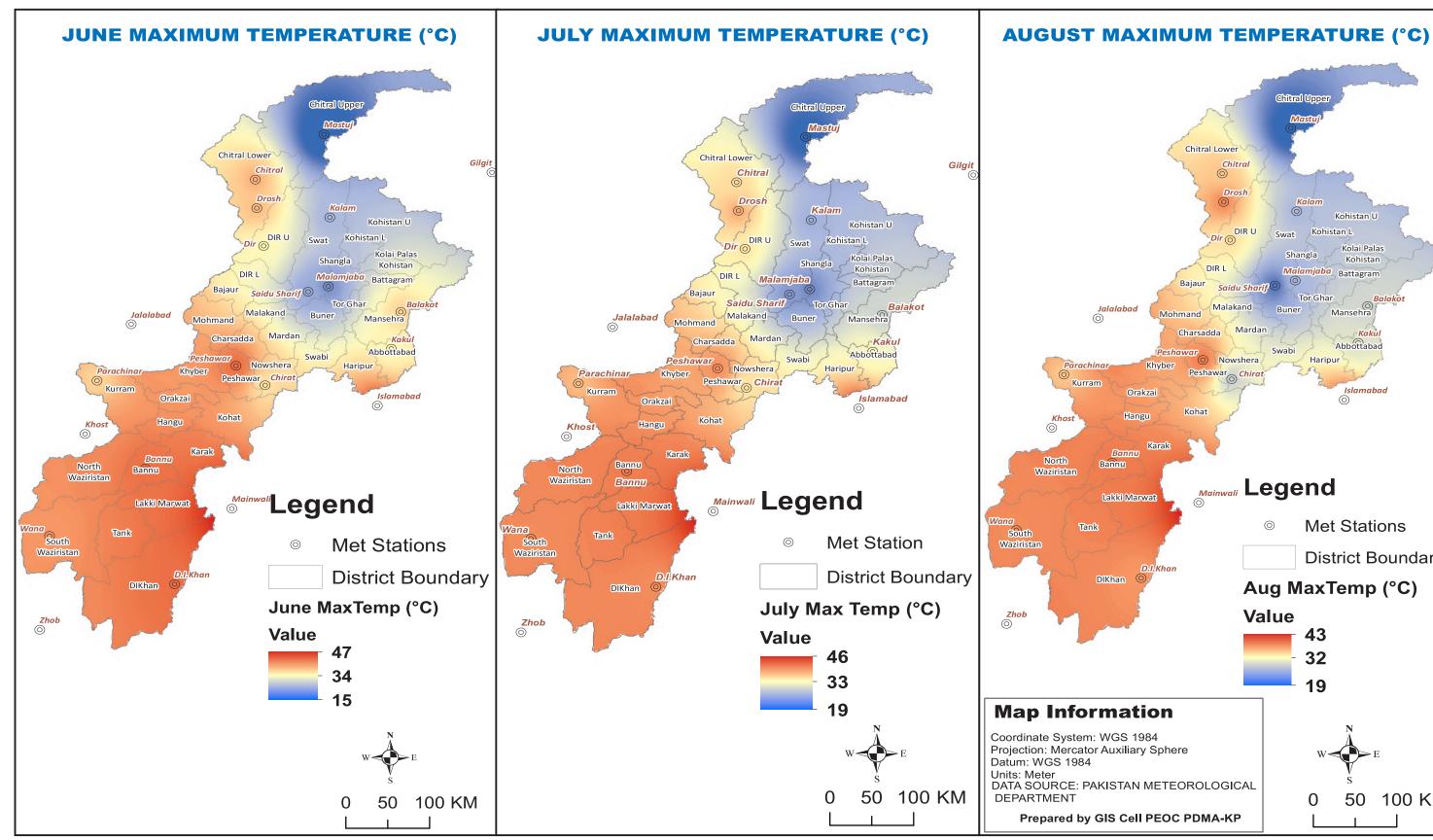
1.8.2 Temperature and Rainfall Trend Analysis of Khyber Pakhtunkhwa (Based on Last 30 Years Meteorological Data of Monsoon Season)

It can be seen in these Maps that in the month of June the temperature as high as 47 degrees and above has been observed in Peshawar, D.I.Khan and Lakki Marwat. Then during the month of July the temperature fall down by a degree or 2 but the overall intensity of the heat remains the same. While during the month of August the temperature comes down significantly however the humidity level goes very high.

KHYBER PAKHTUNKHWA - MONSOON MONTHLY MAXIMUM TEMPERATURE

(ANALYSIS IS BASED ON LAST 30 YEARS METEROLOGICAL DATA OF MONSOON SEASON)



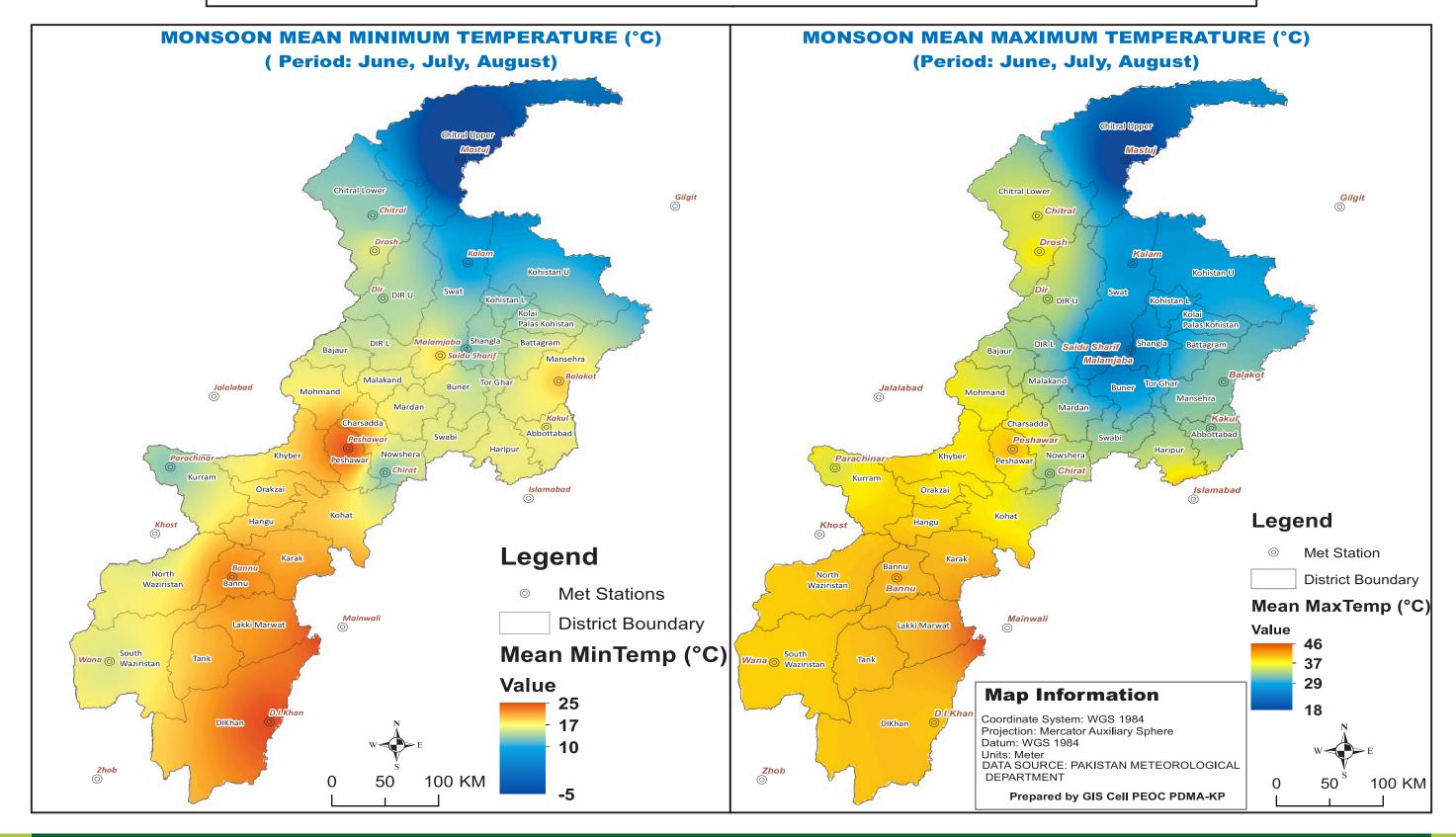


During the Monsoon period of June, July and August Mean Maximum and Mean Minimum temperatures range between 48 degrees and 18 degrees.

KHYBER PAKHTUNKHWA - MONSOON PERIOD MEAN TEMPERATURE

(ANALYSIS IS BASED ON LAST 30 YEARS METEROLOGICAL DATA OF MONSOON SEASON)





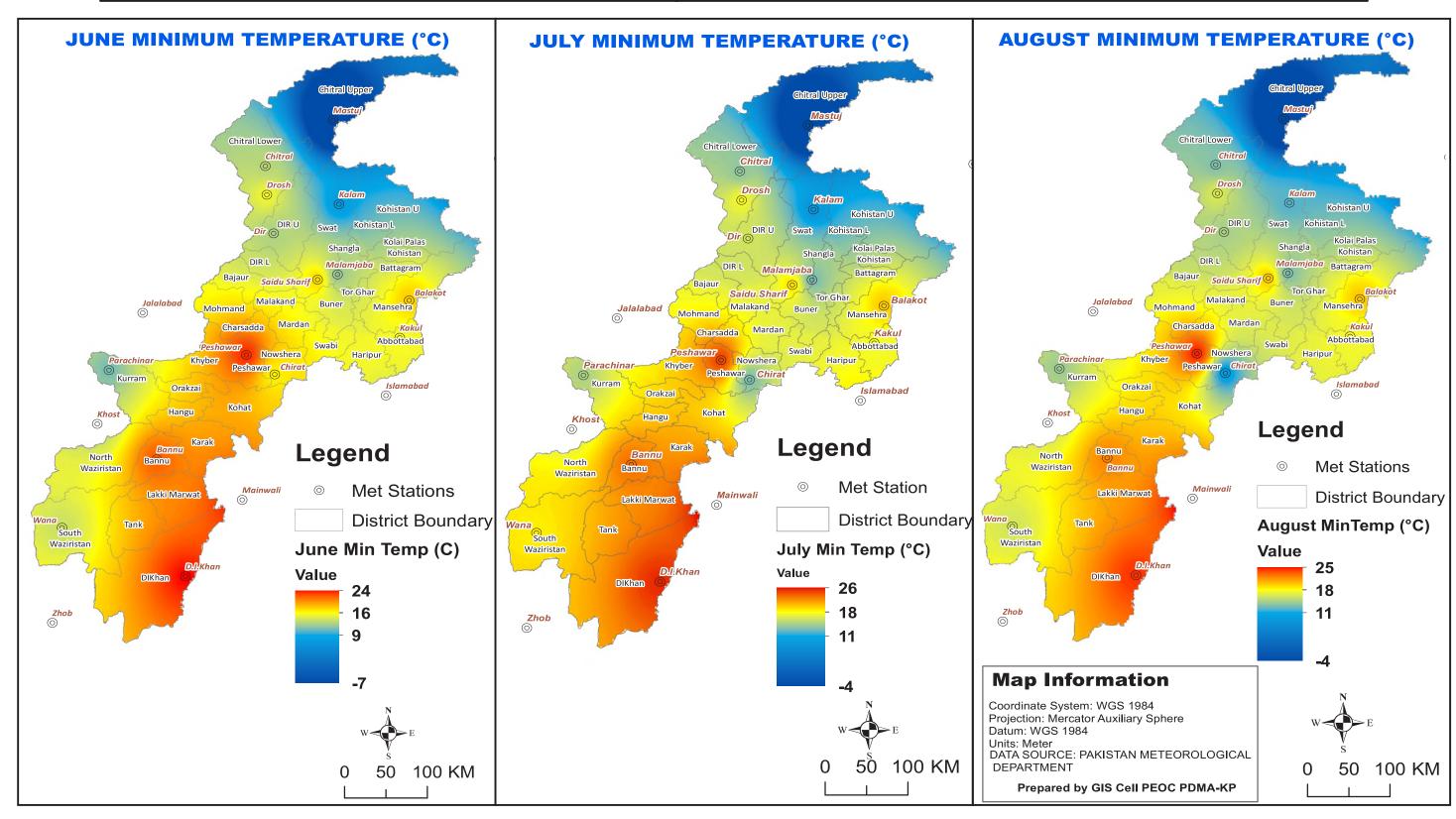
MONSOON CONTINGENCY PLAN 2023

The Minimum Monthly temperature during June is observed in the area of Mastuj, District Chitral Upper where it goes down to -7 degrees. Then in the month of July and August the night time lowest temperature is around -4 degrees.

KHYBER PAKHTUNKHWA - MONSOON MONTHLY MINIMUM TEMPERATURE





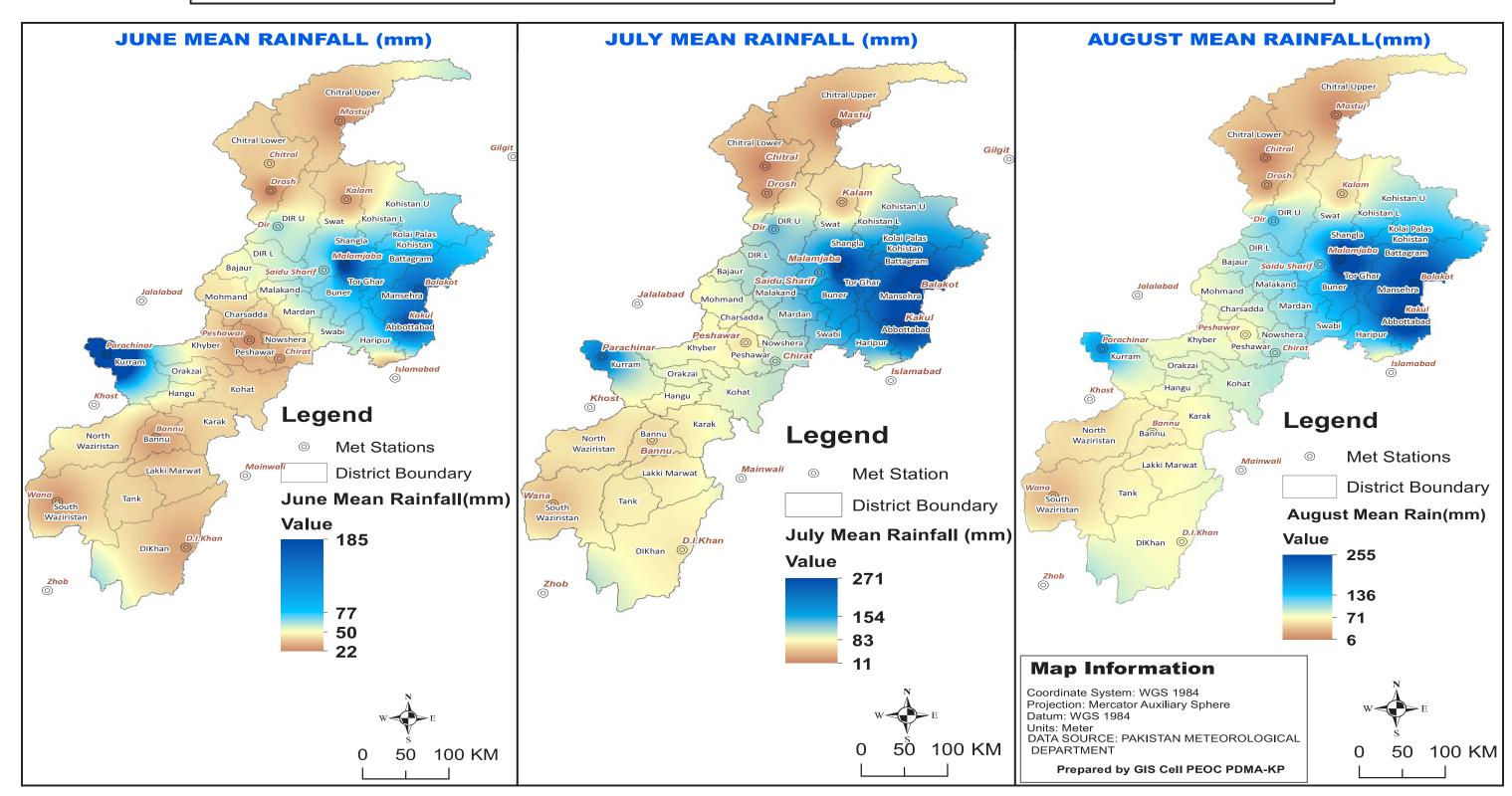


As far as Mean Monthly Rainfall figures are concerned during the month of June the district of Kurram, Swat, Shangla, Mansehra, Abbottabad and Battagram have rains exceeding 185 mm, which is quite significantly more than the rest of the districts. In July the same areas receive rains in excess of 270 mm. In August the rainfall figures come down to 25 mm.

KHYBER PAKHTUNKHWA - MONSOON MEAN MONTHLY RAINFALL

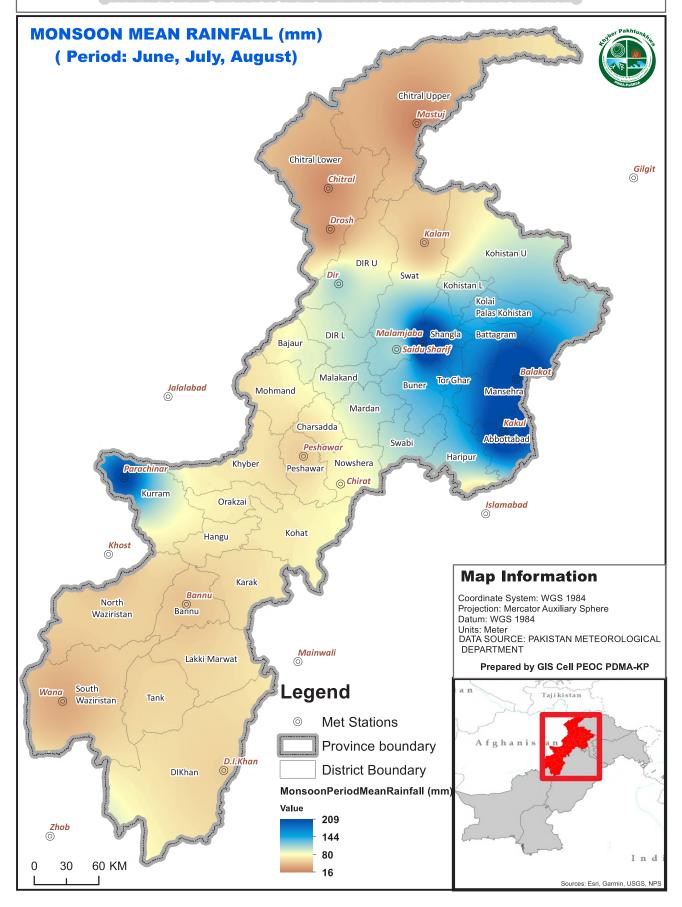






KHYBER PAKHTUNKHWA - MONSOON PERIOD MEAN RAINFALL

(ANALYSIS IS BASED ON LAST 30 YEARS METEROLOGICAL DATA OF MONSOON SEASON)



1.9 Flood Risk Assessment of Khyber Pakhtunkhwa

The assessment is carried out by using a framework to provide an understanding for identifying vulnerabilities on the basis of 05 variables (as shown in table):

- i) Likelihood of Flood Event.
- ii) Impact on Population.
- iii) Impact on Livelihood.
- iv) Impact on Physical Infrastructure.
- v) Accessibility of the Area in terms of Response by the Provincial Government.

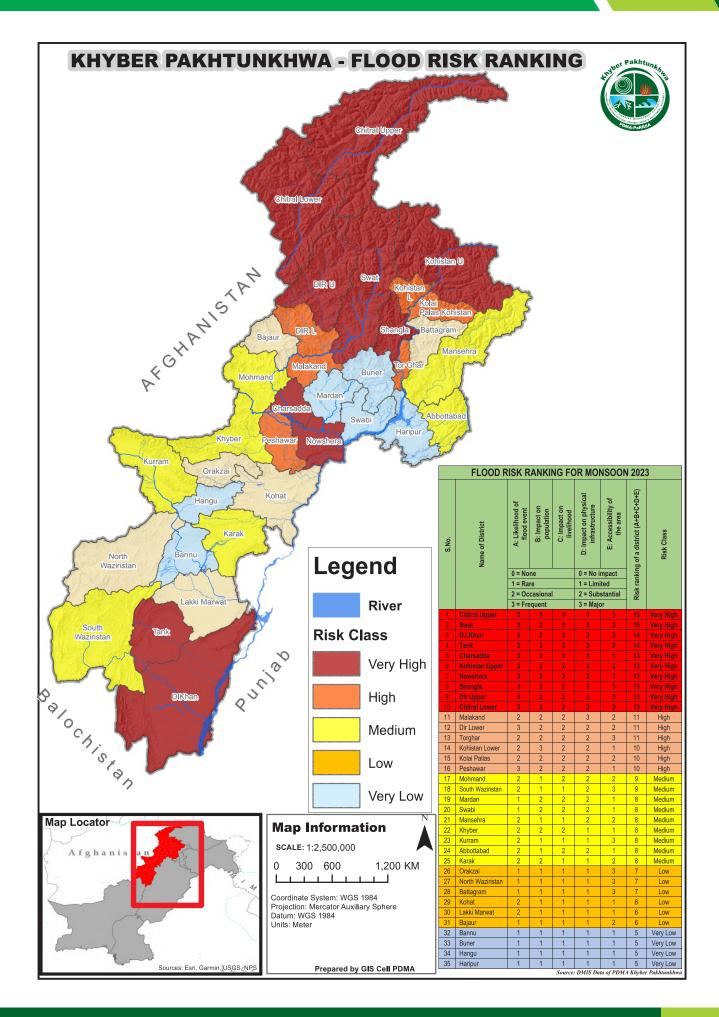
This Risk Assessment is perception based and is based on past events occurred in the Province of Khyber Pakhtunkhwa.

This framework is used to quantify the level of vulnerabilities of districts to flood events during monsoon season. It is based on dataset available in Provincial Emergency Operation Centre (PEOC), PDMA, Khyber Pakhtunkhwa for analysis of impacts of flood events on population, economy, infrastructure and the corresponding response to emergency situation. Due to the geographic terrain of the province, it has been observed that some of the areas in Malakand and Hazara Divisions have accessibility issues which create challenges in swift emergency response.



	FLOOD RISK RANKING FOR MONSOON 2023							
S.No.	Name of District	A: Likelihood of flood event	B: Impact on population	C: Impact on livelihood	D: Impact on physical infrastructure	E: Accessibility of the area	Risk ranking of a district (A+B+C+D+E)	Risk Class
		0 = None		0 = No impact		Risk		
		1 = Rare		1 = Limited				
		2 = Occasional			2 = Substantial			
1		3 = Freq		2	3 = Majo		4.5	***
1	Chitral Upper	3	3	3	3	3	15 15	Very High
2 3	Swat D.I.Khan	3	3	3	3	3 2	15 14	Very High Very High
	Tank	3	3				14	Very High
<u>4</u> 5	Charsadda	3	3	3	3	2	13	Very High
6	Kohistan Upper	3	2	2	3	3	13	Very High
$\frac{0}{7}$	Nowshera	3	3	3	3	1	13	Very High
8	Shangla	3	2	2	3	3	13	Very High
9	Dir Upper	3	2	2	3	3	13	Very High
10	Chitral Lower	3	2	2	3	3	13	Very High
11	Malakand	2	2	2	3	2	11	High
12	Dir Lower	3	2	2	2	2	11	High
13	Torghar	2	2	2	2	3	11	High
14	Kohistan Lower	2	3	2	2	1	10	High
15	Kolai Pallas	2	2	2	2	2	10	High
16	Peshawar	3	2	2	2	1	10	High
17	Mohmand	2	1	2	2	2	9	Medium
18	South Waziristan	2	1	1	2	3	9	Medium
19	Mardan	1	2	2	2	1	8	Medium
20	Swabi	1	2	2	2	1	8	Medium
21	Mansehra	2	1	1	2	2	8	Medium
22	Khyber	2	2	2	1	1	8	Medium
23	Kurram	2	1	1	1	3	8	Medium
24	Abbottabad	2	1	2	2	1	8	Medium
25	Karak	2	2	1	1	2	8	Medium
26	Orakzai	1	1	1	1	3	7	Low
27	North Waziristan	1	1	1	1	3	7	Low
28	Battagram	1	1	1	1	3	7	Low
29	Kohat	2	1	1	1	1	6	Low
30	Lakki Marwat	2	1	1	1	1	6	Low
31	Bajaur	1	1	1	1	2	6	Low
32	Bannu	1	1	1	1	1	5	Very Low
33	Buner	1	1	1	1	1	5	Very Low
34	Hangu	1	1	1	1	1	5	Very Low
35	Haripur	1	1	1	1	l	5	Very Low

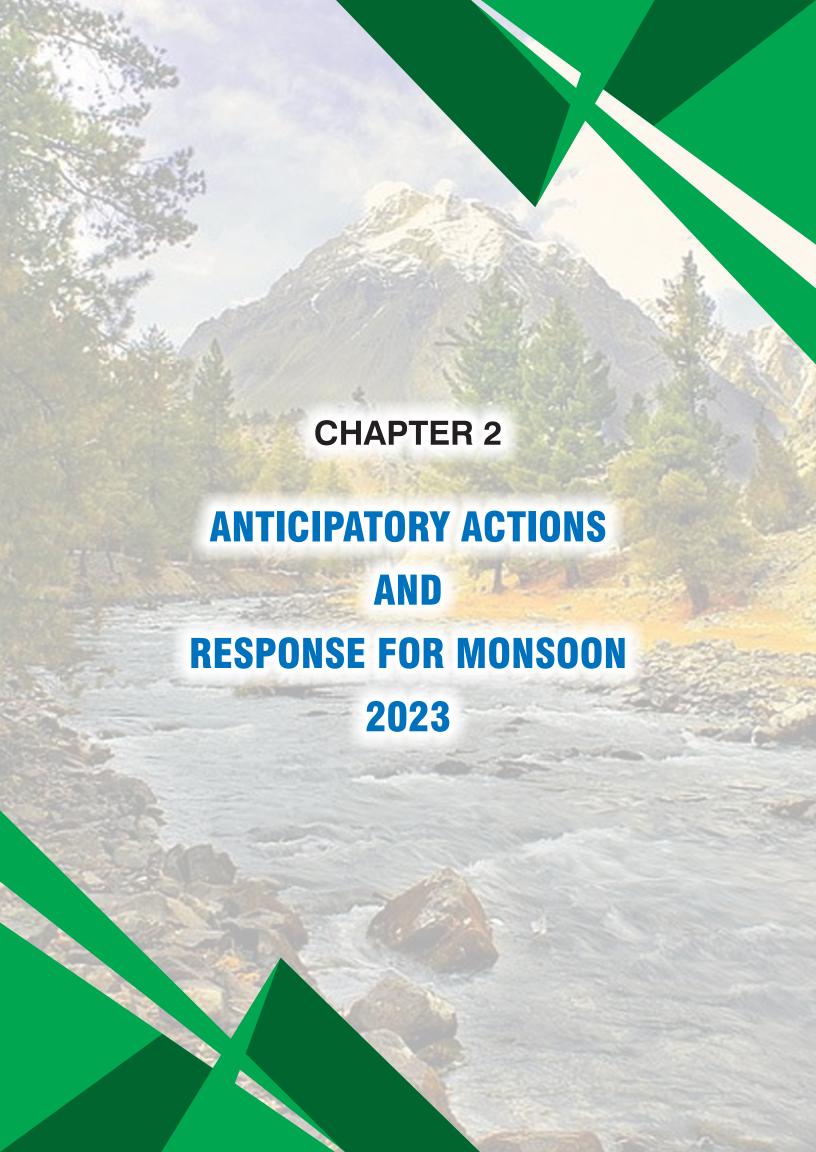
Source: DMIS Data of PDMA Khyber Pakhtunkhwa











2.1 Anticipatory Actions for Monsoon

Anticipatory actions aim to interrupt the severity of the flood impact on vulnerable households by targeting populations most at risk. Keeping in view the challenges of Monsoon in the Province, the Government of Khyber Pakhtunkhwa is utilizing available resources to mitigate disaster risks and to enhance preparedness capacities to minimize losses to lives and property. There is no friction of doubt involved in the intentions of the Provincial Government that it is serious in investing in the flood management system but lack of sufficient water storage facilities, lack of effective regulations as well as due to poor early warning systems in the province are the constraints in formulation of a pulsating and effective flood risk management system. Presently, the available early warning and forecasting of floods is based on telemetry, which is installed by Provincial Disaster Management Authority (PDMA), WAPDA and Irrigation Department. The existing setup of Irrigation Department and PDMA can provide response time of 24-48 hours in river Swat, 5-7 hours in river Kabul and 36-48 hours in river Indus at D.I.Khan, which is quite insufficient time for evacuation of vulnerable communities of the areas which are on the affectee list.

Based on previous experiences of the stakeholders and best practices around the world the anticipatory response actions will help in saving lives, assets, cost and will cover at least following five areas to bear the desired results:

- A robust forecasting embedded in a clear decision-making process (forecast and triggers).
- Finances: That includes government's commitment for contingency financing.
- Reach: Number of beneficiaries and geographic scope.
- Sectoral Scope: A collective, inter-agency action plan to include cash compensation and other interventions.
- Learning from the experiences of previous years lessons.

Furthermore, considering the flash floods in the mountainous regions of the province, there is no early warning system to provide them with the basic facilities in a timely manner. The province has witnessed very little or no improvement in the water storage capacity due to little investment, which can boost the capacity that can otherwise reduce the province's vulnerability to floods. This limited storage capacity has further been undermined by massive silting, which is a common phenomenon that reduces mitigation capacities of these storage facilities.

2.2 Strategy for the Monsoon 2023

2.2.1 Monsoon Emergencies

To better manage any undesirable event during the upcoming monsoon, the following categorization of monsoon emergencies will be vital for better coordination, response, relief and rehabilitation.

- Level 1 Emergency Situation: Manageable by District Administration.
- Level 2 Emergency Situation: Affecting multiple districts but still manageable at Provincial level.
- Level 3 Emergency Situation: National Level emergency situation.

a. Level 1 Emergency

In case of **Level 1 Emergency Situation** the District Administration will be responsible to carry out initial Multi Sector Damage Assessment for identifying scale of a disaster, priority areas, relief and gaps in response and will share immediately with PDMA control room Provincial Emergency Operation Centre (PEOC) through email, fax and WhatsApp group.

The District Administration will also share the Recovery Needs Assessment report with PDMA for identifying and estimating detailed cost of recovery in various sectors for initiation of recovery work in affected

communities. Similarly, District Administration will be solely responsible for search and rescue operations in coordination with relevant stakeholders. District Administration will take lead role in removal of debris and provision of first aid health facility if required. Similarly, the District Administration will be responsible to keep updated all relevant stakeholders including general public regarding any significant monsoon event by utilizing all means of information and communications for dissemination of timely and accurate information depending on the severity of situation, the reports may be shared on hourly, 3-6 hourly basis.

b. Level 2 Emergency

In case of **Level 2 Emergency Situation** the PDMA will be responsible to coordinate initial Multi Sector Damage Assessment with concerned Districts Administration for identifying scale of a disaster, priority areas, relief and gaps in response and will share with Provincial Government and National Disaster Management Authority (NDMA). PDMA will similarly share Recovery Needs Assessment report with Provincial Government and NDMA for identifying and estimating detailed cost of recovery in various sectors for initiation of recovery work in affected communities. PDMA will coordinate with Districts Administration and other line departments for carrying out all necessary work regarding debris removal, provision of health facilities, evacuation, transport, security and maintenance of telecommunication systems. Similarly, the Khyber Pakhtunkhwa, Provincial Disaster Management Authority with the help of information department will disseminate all updates to all stakeholders including Provincial Government, NDMA and general public by utilizing all available means.

c. Level 3 Emergency

In case of **Level 3 Emergency Situation** the NDMA, PDMA and Districts Administration will coordinate for all the matters related to emergency management in case of Level 3 emergency to all districts based on vulnerability and demand of the respective district.

2.2.2 Handling of Different Emergencies

Areas	Level 1	Level 2	Level 3	
Alert and Notification Issuance / Activation of Control Rooms	District Administration / District Disaster Management Unit (DDMU)	PDMA PEOC Round the Clock	NDMA NEOC Round the Clock	
Telecommunication Systems maintenance	District Administration / DDMU	PDMA and NTC	NDMA	
Evacuation	District Administration / DDMU	PDMA / Rescue 1122 / Local Government Department	NDMA / Pak Army	
Transport	District Administration / DDMU	PDMA / Local Government / Transport Departments	NDMA	
Search and Rescue	District Administration / Rescue 1122	Rescue 1122 / Pak Army	Pak Army	
Emergency Relief	District Administration / DDMU	PDMA	NDMA	
Recovery	District Administration / DDMU	PDMA	NDMA	
Debris Remova 1/De Watering	District Administration / DDMU	Local Government / C&W / Irrigation Departments	NDMA / NHA	
Security	urity District Administration / Police / LEAs		Pak Army / LEAs	
Damage Assessment	District Administration / DDMU	PDMA	NDMA	
Health	District Administration / DDMU	Health Deparment	NDMA / Ministry of Health	

2.3 Monsoon Anticipatory Response Actions at National Level

2.3.1 National Disaster Management Authority (NDMA)

National Emergency Operation Center (NEOC) is activated in NDMA Islamabad for monitoring of the situation and coordination of possible response during monsoon season 2023 on 24/7 basis. The NEOC is always manned by a Duty Officer who functions under the overall supervision of Director (Response), NDMA.

- 1. NDMA coordinates emergency response of the Federal Government in the event of a National Level Disaster through the NEOC.
- 2. NDMA can require any Government Department or Agency to make available such staff or resource that are available for the purpose of emergency response, rescue and relief.
- 3. It organizes initial and subsequent assessment of disaster affected areas and determines the extent of loss / damage and volume of relief required.
- 4. It coordinates and informs all concerned Departments to prepare for emergency response.
- 5. NDMA also coordinates with Armed Forces, INGOs, UN Bodies and Philanthropist Organizations for resource mobilization.
- 6. Mobilize and deploy resources e.g. search and rescue medical teams in the affected areas.
- 7. Supply of food, water, medical supplies and NFIs to the affected population.
- 8. Preparation of a transition plan from relief to recovery program.

For better and unified response during Monsoon 2023, a series of consultation, capacity building and coordination meetings with NDMA started from March 2023. The guidelines issued by the NDMA for Monsoon 2023 are at **Annexure-I.**

2.3.2 Federal Flood Commission (FFC)

Federal Flood Commission implements Flood Risk Mitigation Projects which include flood protection works as well as flood forecasting / warning system improvements. As part of preparedness measures for Monsoon Season, FFC undertakes the following:

- 1. Country wide monitoring of flood works.
- 2. Comprehensive Flood Management Plan for 10 years which has already been initiated.
- 3. In case of Exceptionally High Floods, parts of the discharges are managed by breaching the bunds on the pre-determined sites for safety of the main Hydraulic Structures (Bridges & Barrages) and main cities.
- 4. FFD is an affiliated organization of PMD. It disseminates flood early warning and river flow updates to relevant National, Provincial and District Governments and National Response Agencies, especially in the context of Monsoon Season.

PDMA also coordinated the FFC and participated in Monsoon 2023 preparatory meetings.

2.3.3 Pakistan Meteorological Department (PMD)

PMD has a broad mandate of supporting agro-based economic activities, air and maritime traffic safety, disaster mitigation efforts and disseminating weather forecast to numerous end users. PMD will ensure the following during monsoon season:

1. Share weather forecasts and early warning information with NDMA, FFC, PDMAs and the Media on a regular basis in the Monsoon period.

- 2. Coordinate with FFC, WAPDA, PCIW and FFD in the Monsoon period to generate flood warning where wanted.
- 3. Inform public on the weather forecast and issue warning in case of potential threat.
- 4. Collect rain data on a regular basis, consolidate and share it with all concerned.
- 5. Disseminate flood information to the NDMA / PDMA on a daily basis during flood season.

PDMA is in full coordination with PMD not only for the Monsoon 2023 forecast and regional indicators but also for the vigilance on Pre-Monsoon rains and expected heat wave phenomena.

2.3.4 Ministry of Water and Power

The Ministry is responsible for the overall flood management and impact mitigation efforts through its attached departments (FFC, WAPDA, PCIW and IRSA). The Ministry deals with monitoring of preventive and preparedness measures as well as resource allocation for the protection works. Federal Flood Commission implements Flood Risk Mitigation Projects which include flood protection works as well as flood forecasting / warning system improvements:

2.4 Monsoon Anticipatory Response Actions at Provincial Level

2.4.1 Relief, Rehabilitation & Settlement Department (RR&SD)

- 1. The relief rehabilitation and settlement department is mandated to formulate policies Strategies and guidelines for relief rehabilitation and emergency activities and get those implemented through the Provincial Disaster Management Authority, Rescue 1122 and Directorate of Civil Defense.
- 2. Relief, Rehabilitation & Settlement department is responsible for overall coordination with Provincial and National Departments / Ministries and ensuring provision of support during calamities and emergencies through its attached formation.
- 3. Declaration of emergency all over Khyber Pakhtunkhwa or in some districts where the situation warrants as such declaration.

2.4.2 Anticipatory Preparedness Actions by PDMA Khyber Pakhtunkhwa

Anticipatory action systems build on longer standing experiences with early warnings, forecasting and early warning-early action work very effectively within the humanitarian, development and disaster management sectors. In general, early warning systems for floods and other climate and weather services have been observed to be cost effective in long run. The Disaster Risk Management (DRM) Section of the PDMA, Khyber Pakhtunkhwa has kept a close liaison with other stakeholders to ensure in time adoption of mitigation measures for Monsoon 2023 hazards.

On **28**th **March**, **2023** a coordination meeting was held by PDMA with the **Provincial Line Departments** for the preparation of the Monsoon Contingency Plan 2023 and their necessary inputs. The minutes of that meeting were duly dispatched to the relevant Provincial Line Departments is at **Annexure-II**.

Similarly on 30th March, 2023 a coordination meeting was held by PDMA with the Federal Line Departments for the preparation of the Monsoon Contingency Plan 2023 and their necessary inputs. The minutes of that meeting were duly dispatched to the Federal Line Departments is at Annexure-III.

The **District Disaster Management Units (DDMUs)** were taken on board by PDMA in a consultation meeting chaired by Secretary Relief, Rehabilitation and Settlement Department (RR&SD), Government of Pakhtunkhwa on **08**th **May**, **2023**. The meeting was attended by all Additional Deputy Commissioners (Relief & Human Rights), which are leading the DDMUs in the districts. The meeting was also attended by the Director General, PDMA and other Directors of PDMA. Secretary (RR&SD) has issued the instruction

that ADCs (Relief & HR) will overall the operational leads for any disaster situation in the districts and the attached formations of PDMA i.e. Rescue 1122 and Civil Defense Offices in the districts is directly reported to them. Furthermore, the necessary inputs of DDMUs were sought for the Monsoon Contingency Planning 2023 and the meeting minutes were issued by the PDMA Khyber Pakhtunkhwa is at **Annexure-IV**.

Prior to onset of monsoon season PDMA has dispatched relief items and released sufficient funds to all districts of Khyber Pakhtunkhwa based on the vulnerability and requirement of the respective districts. Moreover, all the stakeholders have been mobilized and sensitized for proper mitigation, prevention and preparedness measures.

PDMA role in case of emergencies in Khyber Pakhtunkhwa is highlighted as under:

- 1. Overall coordination for tackling any emergency situation in Khyber Pakhtunkhwa.
- 2. Early Warning of approaching weather system will be provided by PMD / FFD and communicated to all concerned by PDMA. DDMUs are expected to translate weather forecast and flood warnings into usable early warning for vulnerable communities and ensure its timely dissemination to all concerned. In case, there is continuous rise in river water level, the people residing in lower terrain areas will be evacuated to the safer places. Threatened population will be evacuated by DDMUs as per prepared plan.
- 3. In case, the districts fall short of meeting the humanitarian needs, PDMA will assist by making available the required stocks. In case, when disaster exceeds capacities of the Provincial Government, NDMA will be requested to make available the additional stocks from National Reserves, prepositioned across the Country.
- 4. When required, Armed Forces may be requested for assistance by PDMA, Khyber Pakhtunkhwa at any stage, particularly for rescue, evacuation and emergency relief phases. Thus, the DDMUs will have to submit the request to PDMA for assistance of Armed Forces in aid of Civil Administration.
- 5. PDMA will coordinate with key National Stakeholders including PMD, FFC, Armed Forces, Federal Agencies, DDMUs and Line Departments for management of the entire spectrum of Provincial Disaster Response.

2.4.3 Rescue 1122 Khyber Pakhtunkhwa

Rescue 1122 is ready 24/7 to deal with any kind of emergency in 34 districts of Khyber Pakhtunkhwa. Following are the activities undertaken by Rescue 1122 in case of emergencies:

- 1. Rescue 1122 will be sharing information regarding technical and personnel expertise with PDMA and DDMUs.
- 2. Conduct training in first aid & other activities for community members who are regular affectees of flood.
- 3. Effectively train & mobilize locals and initiate mass awareness regarding necessary first aid-rescue activities.
- 4. Deployment of Rescue 1122 respondents at the disposal of DDMU for extending help to the flood affectees.
- 5. Evacuation and initiation of basic first aid.
- 6. Communicate to DEOC any additional resources required for performing.
- 7. Rescue and Evacuation Activities.
- 8. Taking precautionary measures to stop fire-incidents in camps and perform fire fighting in emergency.

- 9. Management of relief camps where required.
- 10. Assisting Districts Administration and other Line Departments in Rehabilitation works.

The detailed resource mapping of Rescue 1122 in Khyber Pakhtunkhwa has been elaborated is at Annexure-V.

2.4.4 Directorte of Civil Defense Khyber Pakhtunkhwa

In Monsoon season emergencies, the Civil Defence will carry out functions of:

- 1. Establishment of Monsoon Emergency Control Cell in respective districts.
- 2. Information sharing regarding technical and personnel expertise with PDMA and DDMUs
- 3. Conduct training for volunteers in first aid & other activities.
- 4. Keeping the Volunteers / Razakaars stand by.
- 5. Carrying out rescue operations.
- 6. Provision of assistance in relief activities.
- 7. Taking precautionary measures to stop fire-incidents in camps and perform fire fighting in emergency.

2.4.5 Irrigation Department

Irrigation Department is responsible for constructing and maintaining irrigation infrastructure in the district. The activities undertaken by the department in monsoon season are as following:

- 1. Carry out a detailed vulnerability assessment of Irrigation infrastructure, rivers, streams, nullahs and other water ways in the district, clearly identifying vulnerable structures. Past events of disasters (at least in the past 10 years) and disasters alerts are to be taken as key information in the vulnerability assessment.
- 2. Monitor erosion of river / canal / nullah banks, carry out required re-enforcements, repair and maintenance and coordinate with relevant Provincial / Federal Authorities if repair / civil work are out of the ambit of District Irrigation Department.
- 3. Continuously monitor water flow especially after an alert is issued by the Metrological Department.
- 4. Designate an Emergency Information Officer to liaise with DEOC and PEOC in preparedness and response stages.
- 5. Maintain machinery for reinforcement of river / canal / nullahs banks during disaster.
- 6. Sign a standby agreement with Government Contractors for using their machinery during disaster.

2.4.6 Local Government, Elections and Rural Development Department

- 1. To chalk out vulnerable places / populations in major urban cities regarding Urban Flooding and take all necessary measures for minimizing the impacts of Urban Flood.
- 2. Prepositioning of all necessary equipment's and resources at the most vulnerable places.
- 3. To carryout survey of bill boards and remove / replace those which are in dilapidated conditions and are posing as hazards, to avoid any untoward events during monsoon season.
- 4. Mitigation measures for Urban Flooding including but not limited to clearing of chocked sewerage / drainage channels and removal of waste from the site.
- 5. The Districts Administration will follow Water Act 2020 for removal of encroachments in each district.
- 6. Implementation of building codes in urban & rural areas.

- 7. Sharing data of M&R funds, sorting out gaps in M&R process and funds, list of machinery and its condition in each district.
- 8. Mobilizing of TMAs for planning / action for Monsoon 2023.
- 9. Activation of Control Room and sharing its particulars / contacts with PDMA for linking with Provincial Emergency Operation Center (PEOC), PDMA.

2.4.7 Public Health Engineering Department (PHED)

SOPs for PHED applies to all such Government Organizations providing water and sanitation services within the geographical boundaries of Khyber Pakhtunkhwa and the responsibilities of Executive Engineer in these SOPs will apply to the heads of all such bodies.

- 1. Carry out a detailed vulnerability assessment of drinking water and sanitation infrastructure in the district / catchment area, clearly identifying vulnerable facilities. Past events of disasters (At least in the past 10 years) and disasters alerts are to be taken as key information in the vulnerability assessment.
- 2. Assess water pumps, water supply lines and sanitation lines and carry out required repair and maintenance.
- 3. Protect water sources in flood prone areas.
- 4. Designate an Emergency Iinformation Officer to liaise with DEOC and PEOC in preparedness and response stages.
- 5. Maintain standby water pumps, generators and fuel stock to be used in disasters.
- 6. Prepare an alternate plan of action for water supply to hospitals and health centers in the event of disaster.
- 7. Sign a standby agreement with water tankers (or such company) based on vulnerability assessment and alerts.
- 8. Maintain stock of chlorine and water purification tablets based on the vulnerability assessment and alerts.
- 9. Prepare for installation of water and sanitation facilities in the temporary shelter locations identified by DDMU.

2.4.8 Communication and Works (C&W) Department

Construction and maintenance of road network and bridges is done by Communication and Works Department which is headed by Executive Engineer in District. The activities undertaken by the department in Monsoon season are as following:

- 1. Carry out a detailed vulnerability assessment of road network and bridges in the district, clearly identifying vulnerable structures. Past events of disasters (at least in the past 10 years) and disasters alerts are to be taken as key information in the vulnerability assessment.
- 2. Carry out necessary repair and maintenance of damaged / vulnerable roads and bridges and make them safer to withstand disasters.
- 3. Plan alternate routes for vulnerable roads and bridges to facilitate evacuation and humanitarian response.
- 4. Designate an Emergency Information Officer to liaise with DEOC and PEOC in preparedness and response stages.
- 5. Continuously monitor vulnerable roads and bridges during flood season and immediately inform DDMO of any damage and alternate route.

- 6. Maintain machinery for clearing roads in the event of disasters.
- 7. Sign a standby agreement with Government Contractors for using their machinery during disaster.
- 8. Maintain stock of pre-fabricated bridges to be installed on emergency basis during disasters. The volume of stock should be based on disaster alerts, damages history and vulnerability of bridges / roads in the district.

2.4.9 Health Department

Health Department delivers its services through Basic Health Unit (BHU), Rural Health Center (RHC), Tehsil Headquarter Hospital (THQ) and District Headquarter Hospital (DHQ). The activities undertaken by the department in Monsoon season are as follow:

- 1. To carry out a detailed vulnerability assessment of health infrastructure in the district, clearly identifying vulnerable hospitals. Past events of disasters (at least in the past 10 years) and disasters alerts are to be taken as key information in the vulnerability assessment.
- 2. Make an evacuation plan for indoor patients from vulnerable facilities in the event of emergency especially after alert.
- 3. Identify health facilities to serve as response bases in the event of emergency. Such bases should be in a safer location in the closer vicinity of the vulnerable areas.
- 4. Maintain stock of life saving medicines, surgical tools and other equipment especially after disaster alert.
- 5. Shift medical equipment (X-ray, Ultrasound, ECG, MRI machines etc) to higher ground, preferably first or second floor in the health facilities vulnerable to flood.
- 6. Establish / strengthen mother and child facility in the hospitals especially in the response bases.
- 7. Keep all ambulances operational with adequate stock of fuel.
- 8. Designate an Emergency Information Officer to liaise with DEOC and PEOC in preparedness and response stages.
- 9. Liaise with public and private teaching hospitals, specialized hospitals and centers to ascertain the capacity of health response in the district.

For the expected heat wave situation in the province, PDMA has chalked out a Heat Wave Contingency Plan 2023 for the effective surveillance and response on the health impacts of the heat wave which included instructions like surveillance of the situation, declaration of emergency establishment of Heat Stroke Centers in all the health facilities and insurance availability of essential medicines on urgent basis.

2.4.10 Police

Police has a critical role to play in disaster and therefore preparedness measures are very important so that police force and resources can be utilized for saving lives and property of affected communities in disasters. Following shall be the responsibilities of District Police Officer for preparing police force to respond to disasters. District Police Officer shall:

- 1. Take updates from DDMU about emergency alerts on regular basis.
- 2. Get a copy of vulnerability assessment from DDOC, assess police stations safety and security in the vulnerable areas and take necessary measures to reduce vulnerability of police personnel and equipment.
- 3. Make deployment plan for rescue and relief for vulnerable areas.
- 4. Train police force for rescue and relief. There should be at least one team at tehsil level who are trained in rescue and relief and equipped with necessary tools.

- 5. Regularly check wireless communication network and make it available to DDMU / Deputy Commissioner when required for communication during emergency.
- 6. Take regular updates from Police Stations and Police Posts in the district about any disaster risk and communicate to DEOC and relevant departments and authorities.
- 7. Keep all vehicles in running condition with enough fuel stock for deployment in disasters.
- 8. Assist DDMU in dissemination of information about alerts through police stations and police posts in the vulnerable areas.
- 9. Liaise with communication and works department for information of vulnerable roads / bridges, alternate routes in disasters and make traffic management plan accordingly.
- 10. Conduct security assessment of the district and identify secure areas for humanitarian workers and organizations in the district, preferably in the closer vicinity of vulnerable areas.
- 11. Make deployment plan for security of humanitarian workers and organizations in affected areas.
- 12. Designate an Emergency Information Officer to liaise with DEOC and PEOC in preparedness and response stages.

In Heat Wave Contingency Plan 2023, the Provincial Police Officer, Khyber Pakhtunkhwa has also been advised on the availability of necessary equipments / items on urgent basis to their field staff for protection from direct sunlight and proper arrangements in jails.

2.4.11 Elementary and Secondary Education Department

Elementary and Secondary Education (E&SE) Department has the largest network of buildings and has the greatest number of employees in the district. Schools can be used for awareness raising and information dissemination about disaster preparedness, evacuation, first aid and Do's and Don'ts during a disaster. The activities undertaken by the department in Monsoon season are as following:

- 1. Carry out a detailed vulnerability assessment of school buildings. Past events of disasters (at least in the past 10 years) and disasters alerts are to be taken as key information in the vulnerability assessment.
- 2. Identify schools for potential temporary shelter in a safe location close to vulnerable areas based on vulnerability assessment of DDMU.
- 3. Assess identified schools capacity (in terms of number of families that can be housed), availability / need of drinking water, availability / need of sanitation, availability / need of boundary wall and share information with DDMU.
- 4. Prepare a roster of teachers and staff to be deployed in rescue and relief activities during emergency.
- 5. Designate an Emergency Information Officer to liaise with DEOC and PEOC in preparedness and response stages.

2.4.12 Agriculture and Livestock Department

Agriculture, horticulture and livestock are the main livelihood sources in rural areas of Khyber Pakhtunkhwa. Agriculture department will take following proactive steps in disaster preparedness and response at the district level.

1. Carry out a detailed vulnerability assessment of the district especially flood prone areas past events of disasters (at least in the past 10 years) and disasters alerts are to be taken as key information in the vulnerability assessment.

- 2. Conduct assessment of the potential diseases for crops and livestock in the given climatic condition and season (Rabi / Kharif Crops), crops cultivated, cattle head types in the area and based on the history of diseases for crops and cattle head in vulnerable areas.
- 3. Conduct capacity assessment of Agriculture Extension Services and identify gaps in terms of staff, stock and facilities.
- 4. Maintain stock of required chemicals and medicines for crops and livestock and plan for fumigation of crops and vaccination of cattle head after flood alert.
- 5. Establish / designate emergency response bases for emergency in the close vicinity of vulnerable areas.
- 6. Identify fodder suppliers, take quotations and select a supplier so that supply of fodder can be arranged in minimum possible time.
- 7. Designate an Emergency Information Officer to liaise with DEOC and PEOC in preparedness and response stages.

For the expected heat wave situation in the province PDMA has chalked out a Heat Wave Contingency Plan 2023 for the effective surveillance and response on the food security aspects and the crops impacts of the heat wave which included instructions like surveillance of the situation, declaration of emergency and the availability of essential Agriculture inputs to the small land holding farmers in the districts. The plan has also been included the precautionary measures to be taken by the farmers during wheat harvesting and ensure safety of livestock.

2.4.13 Food Department

Food Department is responsible for maintaining adequate food stock in the district and regulates market to ensure availability of adequate food items with required quality and approved rates. Food Department needs to prepare for disasters by taking the following measures:

- 1. Conduct vulnerability assessment of all government food stock centres (godams) in the district especially those in the vulnerable areas. Past events of disasters (at least in the past 10 years) and disasters alerts are to be taken as key information in the vulnerability assessment.
- 2. Carryout necessary repair and maintenance where needed for safety of food from disasters.
- 3. Assess availability of food in government food stock centres (godams) and make necessary arrangements for storing adequate ration.
- 4. Assess availability of food in the market and take appropriate measures to avoid food shortage in the event of disaster. Measures may include identification of food suppliers in other districts and arrangement for standby agreements for transport.
- 5. Designate an Emergency Information Officer to liaise with DEOC and PEOC in preparedness and response stages.

2.4.14 Social Welfare Department

Social Welfare Department is the focal point for registration, monitoring and sometimes funding of voluntary organizations in the district and is in a better position to utilize the human and material resource of such organizations in different stages of disaster, headed by Social Welfare Officer at the district level, the department will have the following responsibilities in disaster preparedness:

1. Convene quarterly meetings with NGOs / CBOs working in the district to apprise them of the overall vulnerability of the district, alerts received from DEOC and to discuss the preparedness level of these organizations.

- 2. Assess capacity of district-based NGOs / CBOs in disaster preparedness and response.
- 3. Persuade NGOs / CBOs to allocate resources for disaster preparedness activities including capacity building of volunteers and employees, community resilience and for awareness campaign under the overall guidance of DDMU.
- 4. Task NGOs / CBOs to prepare their own disaster management plans based on the vulnerability assessment of the district.
- 5. Involve NGOs / CBOs in vulnerability assessment of the district by coordinating with DDMU.
- 6. Designate an Emergency Information Focal Person to liaise between NGOs / CBOs and DDMU in disaster preparedness. NGOs / CBOs will directly report to and coordinate with DDMU in the response stage.

2.4.15 Forest Department

Forest Department has key role in disaster preparedness especially in the context of floods and land sliding. Responsibilities of Forest Department include protection of existing forests and expanding covered area. Following will be SOPs of Forest Department:

- 1. Conduct detailed assessment of all areas in the district, especially the vulnerable areas, to ascertain the status of forests, level of deforestation and to identify sites for plantation.
- 2. Make a plan for plantation in the district with a special focus in areas prone to soil erosion, sliding and flood. Carryout plantation in spring and monsoon season in the identified areas.
- 3. Take steps for marking vulnerable areas as 'reserved areas' for forests with no tolerance of cutting trees.
- 4. Regularly check deforestation activities in the district with the involvement of local communities.
- 5. Designate an emergency information focal person so liaise with DEOC and PEOC in disaster preparedness and response stages
- 6. Remove and regularly check wood logs from river banks to avoid obstruction of flood water
- 7. Communication of early warning for floods and other hazards with all stakeholders.

2.4.16 Sports, Culture, Tourism, Archeology, Museum & Youth Affairs Department:

- 1. Preparation of sector specific monsoon contingency plan including but not limited to resource mapping, coordination mechanism, tourist information centers, safe evacuation routes.
- 2. Gathering data through tourist facilitation centers like number of tourists and vehicles enter in each district and sharing the same with Provincial Emergency Operation Center (PEOC), PDMA on daily basis during peak tourism season.
- 3. Activation of Control Room and linking the same with Provincial Emergency Operation Center (PEOC), PDMA.
- 4. Mobilization / awareness campaign for tourist about cleanness on Tourist spot.
- 5. Issuing alerts for tourist regarding weather forecast, land sliding and flood prone areas.
- 6. Share the list of tourist information centers and rescue stations

2.5 Monsoon Anticipatory Response Actions at District Level

2.5.1 District Disaster Management Unit (DDMU)

- 1. Respective DDMUs, backed by PDMA would be the first responders in case of any untoward monsoon incidents.
- 2. The Deputy Commissioners shall keep close liaison with all departments like Local Government, Health, Agriculture, Civil Defence, Irrigation, Works & Services, Education & Literacy, Police & Other Law enforcement Agencies. Meetings in this regard are to be held on regular basis with concerned departments and minutes are to be shared with other Divisional Commissioners and PDMA.
- 3. If there is likelihood of heavy rains and flood damages, emergency would be declared in the District and all Government functionaries and NGOs would be kept on high alert.
- 4. Control Rooms would be established at District level in the offices of the Deputy Commissioners, DDMO and all other line departments during the Rain / Flood emergency. These Control Rooms shall function round the clock.
- 5. The Deputy Commissioners shall ensure activation of District Emergency Control Rooms at their offices round the clock which should fall under the supervision of concerned District Disaster Management Officers (DDMOs). They shall also ensure preparedness at proposed relief camps and also ensure immediate evacuation of people residing in low-lying areas to safer place / relief camps, if required. He shall also make immediate arrangements for the availability of sufficient quantity of relief Material like food, blankets, tents- plastic sheets etc.
- 6. The Deputy Commissioner must further ensure that special attention is given to the disabled people and women and children and extra ordinary measures are taken for such purpose.
- 7. The Deputy Commissioner shall nominate the Additional Deputy Commissioner (Relief) / Assistant Commissioner (General) as focal person to coordinate with the Tehsil / Town level local councils for drainage of accumulated rain water during monsoon season-2022.
- 8. The Additional Deputy Commissioner (Relief) / Assistant Commissioner (General) shall be focal persons for the entire operations of rescue and relief. They must ensure the respective arrangements for machinery / equipments and manpower in coordination with Civil Defense, Rescue 1122 and Police Department if needed and mobilize the village staff in the pre-and post-emergency work. They shall also ensure proper distribution of relief material among the actual needy persons.
- 9. The Deputy Commissioners shall ensure mobilization of the NGOs and business community in the rescue and relief activities in case of emergency and shall depute volunteers on different emergency tasks.
- 10. DDMUs would be responsible for effective and transparent relief distribution including relief provided by PDMA, NDMA and other Humanitarian Agencies.
- 11. DDMUs would be responsible for provision of search and rescue, medical and emergency responses.
- 12. Camps will be established at pre-selected sites by DDMUs. All Division / Districts must be ready to handle the initial caseloads within their own mechanism and resources.

2.6 Anticipatory Actions by Communities

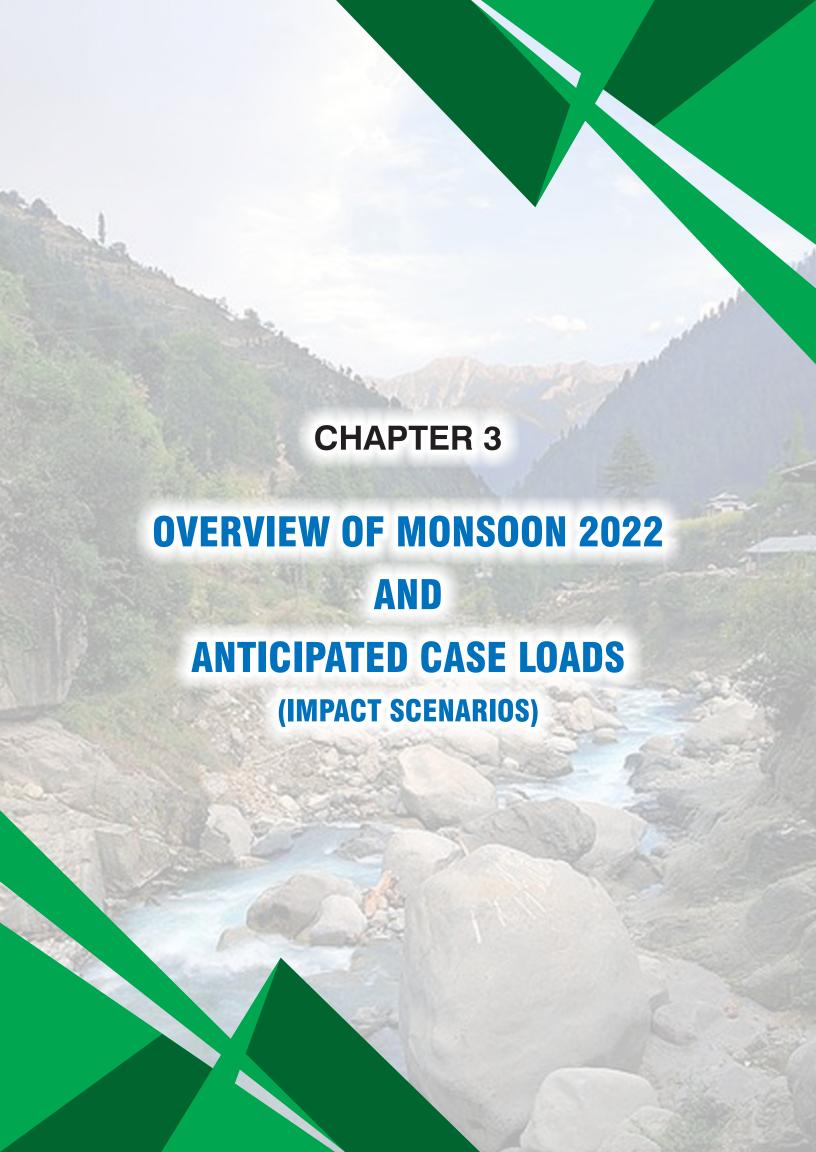
In regard to flood anticipation, every flood-affected community both individually and in the community, has its strategy that is born from hereditary experiences and knowledge. When the rainy season arrives, they make various preparations as a strategy to minimize their losses. Based on the decades of experience of the

local communities and according to international best practices in the anticipation of occurrence of a flood, there are several strategies adopted by the locals to minimize the negative impact of floods namely;

- 1. Community's Internal Early Warning System: Mobilization of community early warning system and mock exercises.
- 2. Refuge to a neighboring area where houses are flood-free: Not all the local community members adopt this strategy as most of them stay in their homes with the intent of observing floods, unless the floods rise and they have to leave their homes. However, through the local Masajid, community awareness in this regard to migrate to a neighboring community to save human life and livestock needs to be imparted.
- 3. Put the goods in a higher place: Flood conditions that affect the houses are very diverse depending on the physical environment. Some floods flow through people's houses and there are also floods that inundate low-level houses (10 cm), moderate levels (30 cm) and high levels (1 meter). Also, the effort of community members is conditioned by the situation of each home, especially food items and clean drinking water needs to be stored at a higher place in case of floods.
- 4. Bind goods so as not to drift: Local communities should be informed in time to bind their goods so as not to drift away.
- 5. Protect Livestock: Raising livestock in their villages is a need-based activity for many community members. When the floods come, they should rescue the livestock in various ways such as evacuate them in flood-free locations or save in a safe place from the floods inside the house.
- 6. Preparing rubber tires for transportation: Mostly when floods reach a height of 1 meter or above, locals should prepare giant rubber tires as a means of transportation. They can use it to transport anything, especially goods and people.

2.7 Coordination with Humanitarian Organizations

- 1. Resources of Humanitarian Partner Organizations and domestic philanthropy may be requisitioned, if the intensity of the situation so entails for an effective response.
- 2. Welfare Associations and NGOs of the district will provide food packets and other required material to the affected persons in relief camps in case of emergency.
- 3. PDMA will keep close coordination with UN Agencies and other Humanitarian Partners to fill in the response and relief gaps.



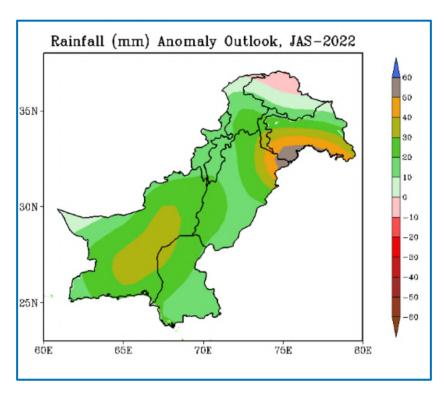
3.1 Overview of Monsoon 2022

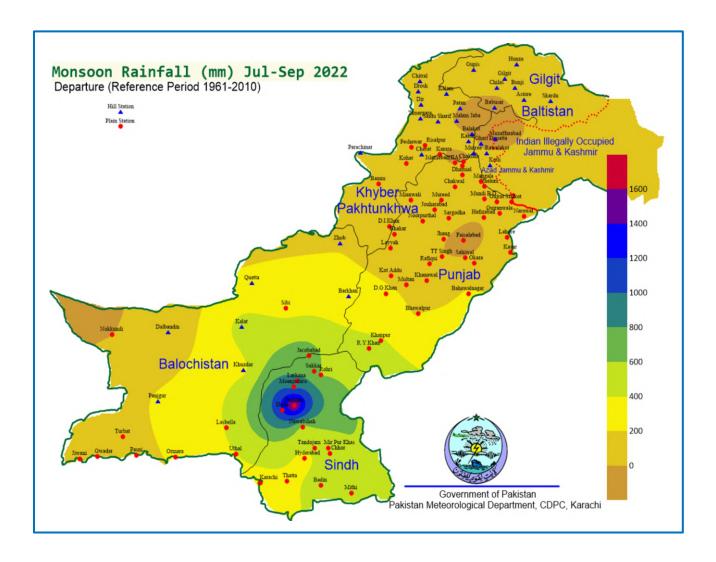
Unfolding of Monsoon Season 2023 the season set on 30th June, 2022 over Pakistan, a day earlier of its normal date (1st July) and withdrew during third week of September 2022. However, significant continuous rainfall occurred from 4th July onwards. Pakistan rainfall, for the country as a whole, during the period remained extremely above average (+175%). On regional scale, the rainfall during the period has also been excessively above average over Sindh (+426%) & Balochistan (+450%), largely above average over Punjab (+70%) & Gilgit Baltistan (+104%), above average over Khyber Pakhtunkhwa (+33%) and near average over Azad Jummu Khasmir. A comparative cumulative rainfall of the years 2021 & 2022 versus normal. The torrential rain caused massive devastating flash floods in eastern & southern Balochistan, Sindh, Southwest Punjab and Khyber Pakhtunkhwa inflicting over 1700 deaths & unbearable huge loss of crops and properties.

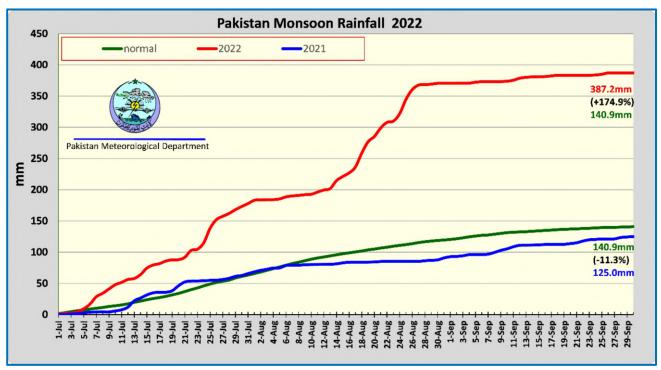
Monsoon 2022 rains being unprecedented and exceptional were caused mainly due to the following unusual regional and global atmospheric conditions:

- 1. Persistent triple-dip La Nina, previously such situation was seen during 2010-2012 which were incidentally excessive monsoon years.
- 2. Negative IOD (Indian Ocean Dipole).
- 3. Deepened Heat / seasonal-low pressure area, resulted by abnormally high temperatures during April June over south Pakistan which caused vigorous monsoon currents pull towards the heat- low center.
- 4. Monsoon axis remained tilted in south (Lat. 22-24°N) compared to its normal / average position (Lat. 28°N or above).
- 5. 3 Low-pressure areas (LPAs) & 4 Depressions formed over Bay of Bengal moved towards Sindh-Balochistan due to northeast-southwest oriented Tibetan / Sub-tropical High- pressure area.
- 6. Climate change is causing more frequent extreme events like floods, drought, heat waves, cyclones, sealevel rise & Glacier melting (GLOF). This year 16 GLOF events in Gilgit Baltistan and Khyber Pakhtunkhwa have been witnessed against normal 5/6 events yearly.

3.1.1 Rainfall Patteren in Monsoon 2022







Comparative cumulative rainfall (2022 & 2021) vs Normal

a. Rainfall in July 2022

National rainfall in July was excessively above average (+181%) as a whole with excessively above average over Sindh (+307%) & Balochistan (+450), largely above average over Punjab (+116%), above average over Khyber Pakhtunkhwa (+30%) & Gilgit Baltistan (+32%) and near average in Azad Jummu Kashmir. July's daily rainfall too exhibited continuous wetter conditions with 3 major spells 4-12 July, 14-18 July & 21-31 July.

b. Rainfall in August 2022

The rainfall situation in August was more vigorous than July. National rainfall as a whole in August was excessively above average (+243%) with extremely above average over Sindh (+726%), Balochistan (+590%) & Gilgit Baltistan (+233%), above average over Khyber Pakhtunkhwa (+58%) & Punjab (+52%) and near average in Azad Jammu Kashmir. Daily rainfall analysis shows that the almost entire month of August remained wetter especially incessant heavy rainfall from 11 to 27.

c. Rainfall in September 2022

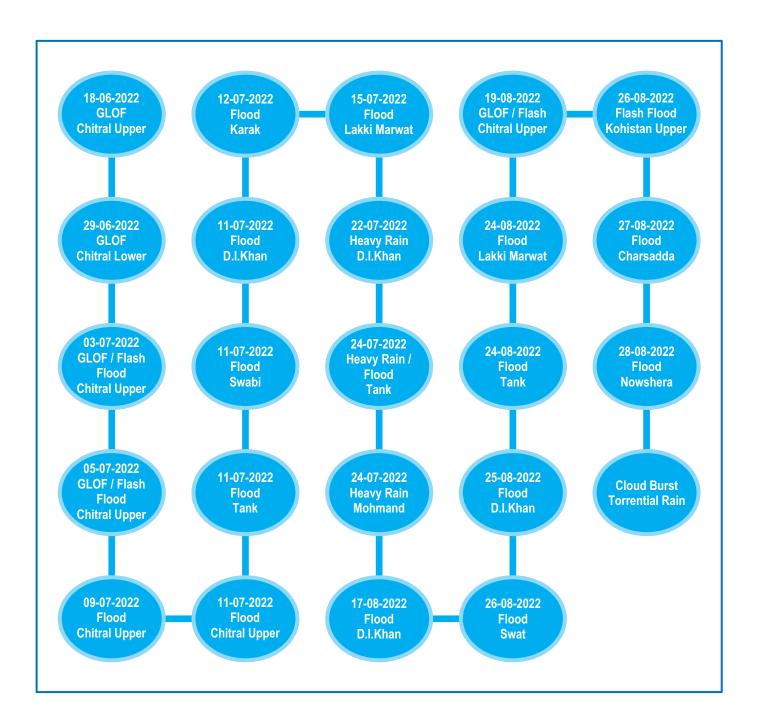
During the month the national rainfall was below average (-21%) across Pakistan as a whole. The situation was more or less similar in all regions i.e., Balochistan (-59%), Gilgit Baltistan (-19%), Khyber Pakhtunkhwa (-16%), Punjab (-21%) and Sindh (-22%) except Azad Jammu Kashmir which was slightly above average (+16%).

3.1.2 Monsoon 2022 – Significant Events in Khyber Pakhtunkhwa

Due to the abnormal Monsoon, Pakistan has been drenched by the rains that have led to the country's worst flooding in a decade; the floods have affected more than 33 million people and destroyed or damaged more than 2.04 million houses. At least 1,638 people died due to flood or monsoon related incidents.

Khyber Pakhtunkhwa was not an exception and the riverine flood and Glacial Lake Outburst Flood (GLOF) incidents have played havoc in the province. Total of 309 persons died, 370 injured, 91464 houses were fully / partially damaged, 560 elementary education infrastructures damaged, as a result of the heavy flood, water in some areas the rivers have change their course. Chronology of the GLOF / flood incidents during monsoon 2022 is reflected as under;





3.1.3 Monsoon Floods 2022 and Losses in Khyber Pakhtunkhwa

In 2022 flood, 309 people died and 600,000 others were displaced by floods. Among them were five children in Dir Upper District; they had been returning home from school before they were swept away by the floods and drowned. District Tank, D.I.Khan, Swat, Mardan, Swabi, Nowshera, Charsadda, Kohistan Upper, Kohistan Lower, Dir Upper, Chitral Upper and Chitral Lower were affected in flood 2022.

The detail of Flood 2022, district wise house damages in Khyber Pakhtunkhwa reported to Provincial Emergency Operation Centre (PEOC), Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa are as under:

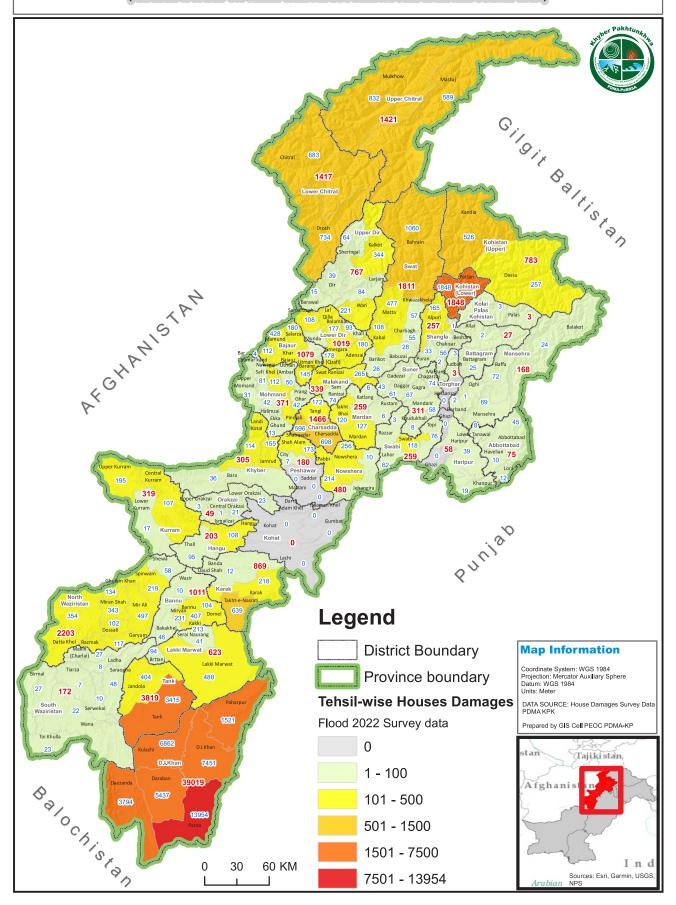
District Wise State of Infrastructure, Damages & Live Stock Perished in Flood 2022 in Khyber Pakhtunkhwa Reported to PDMA (Before Survey)

		CATTLE			INF	RASTRU	CTURE	DAMAG	ES		
S.	DISTRICT	PERISHED		HOUSES	5	S	CHOOL	S	(OTHERS	
#	DISTRICT	Total	Fully	Partia lly	Total	Fully	Partia lly	Total	Fully	Partia lly	Total
1	Abbottabad	3	9	58	67	0	0	0	0	3	3
2	Bajaur	12	31	133	164	0	1	1	0	2	2
3	Bannu	0	5	8	13	0	1	1	0	1	1
4	Battagram	6	30	25	55	0	0	0	0	0	0
5	Buner	9	17	56	73	0	2	2	1	8	9
6	Charsadda	7	160	800	960	0	1	1	0	0	0
7	Chitral Lower	615	94	149	243	5	60	65	10	196	206
8	Chitral Upper	40	181	109	290	0	26	26	4	48	52
9	D.I.Khan	9442	33596	41739	75335	0	6	6	1	9	10
10	Dir Lower	16	63	1300	1363	5	165	170	1	57	58
11	Dir Upper	91	289	655	944	18	64	82	37	0	37
12	Hangu	11	16	122	138	0	0	0	0	1	1
13	Haripur	1	1	37	38	0	0	0	1	5	6
14	Karak	40	303	1311	1614	0	0	0	0	0	0
15	Khyber	0	1	139	140	0	0	0	0	0	0
16	Kohat	0	0	0	0	0	0	0	0	0	0
17	Kohistan Lower	16	0	766	766	0	0	0	2	0	2
18	Kohistan Upper	16	175	258	433	1	0	1	7	20	27
19	Kolai Pallas	0	0	180	180	0	2	2	0	3	3
20	Kurram	3	54	93	147	0	0	0	1	0	1
21	Lakki Marwat	0	209	1074	1283	0	0	0	1	0	1
22	Malakand	15	79	376	455	0	5	5	1	2	3
23	Mansehra	10	5	18	23	0	3	3	12	5	17
24	Mardan	1	90	341	431	0	0	0	0	14	14
25	Mohmand	103	23	504	527	0	0	0	1	8	9
26	Nowshera	0	23	956	979	0	1	1	0	0	0
27	Orakzai	0	0	2	2	0	0	0	0	0	0
28	Peshawar	0	1	111	112	0	0	0	0	1	1
29	Shangla	1	33	32	65	0	77	77	12	58	70
30	Swabi	28	16	232	248	0	0	0	0	1	1
31	Swat	7	88	145	233	0	0	0	24	5	29
32	Tank	10801	1836	2144	3980	0	116	116	0	55	55
33	Torghar	0	11	1	12	0	0	0	0	1	1
34	Waziristan North	34	66	40	106	0	0	0	0	0	0
35	Waziristan South	0	20	25	45	0	1	1	0	2	2
	Total	21328	37525	53939	91464	29	531	560	116	505	621

		2022 District Wise House Pakhtunkhwa (After Surve	
S.No.	Division	District	House Damages
1	Bannu	Bannu	1011
2	Bannu	Lakki Marwat	623
3	Bannu	North Waziristan	2203
4	D.I.Khan	D.I.Khan	39019
5	D.I.Khan	South Waziristan	172
6	D.I.Khan	Tank	3819
7	Hazara	Abbottabad	75
8	Hazara	Battagram	27
9	Hazara	Haripur	58
10	Hazara	Kohistan (Lower)	1848
11	Hazara	Kohistan (Upper)	783
12	Hazara	Kolai Palas	3
13	Hazara	Mansehra	168
14	Hazara	Torghar	3
15	Kohat	Hangu	203
16	Kohat	Karak	869
17	Kohat	Kurram	319
18	Kohat	Kohat	0
19	Kohat	Orakzai	49
20	Malakand	Bajaur	1079
21	Malakand	Buner	311
22	Malakand	Lower Chitral	1417
23	Malakand	Lower Dir	1019
24	Malakand	Malakand	339
25	Malakand	Shangla	257
26	Malakand	Swat	1811
27	Malakand	Upper Chitral	1421
28	Malakand	Upper Dir	767
29	Mardan	Mardan	259
30	Mardan	Swabi	259
31	Peshawar	Charsadda	1466
32	Peshawar	Khyber	305
33	Peshawar	Mohmand	371
34	Peshawar	Nowshera	480
35	Peshawar	Peshawar	180
		TOTAL	62993

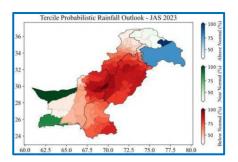
KHYBER PAKHTUNKHWA - FLOOD 2022 HOUSES DAMAGES SURVEY MAP

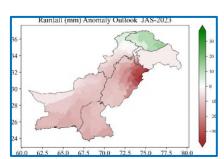
(ANALYSIS IS BASED ON TEHSIL-WISE FLOODS 2022 HOUSES DAMAGES SURVEY DATA)

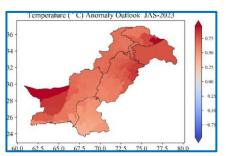


3.2 Preparedness for Monsoon Emergency 2023

This chapter will be analyzing the preparedness strategies based on extent of flood as well as the availability of resources at the districts against the forecasted monsoon and the presumed scenarios. The Outlook for the month of July, August & September (JAS) provided by Pakistan Meteorogcial Department, Islambad.







Source: Pakistan Meteorological Department

3.2.1 Outlook for July-August-September (JAS), 2023

a. Synoptic Situation

During the upcoming monsoon season (July-August-September, JAS-2023), it is anticipated that El Niño conditions will prevail, while the Indian Ocean Dipole (IOD) will remain in positive phase. Taking into account these global and regional circulation patterns.

b. Seasonal Outlook

The given climate conditions suggest that most areas may have normal to slightly below-normal (10%) rainfall. Northern regions may experience slightly above-normal rainfall, while western parts of Balochistan can expect near-normal rainfall. Seasonal temperatures are expected to remain within normal* to higher than normal* ranges across the country.

c. Impacts

- Possibility of occasional extreme hydro-meteorological events over catchment areas cannot be ruled out, that may generate riverine floods in the major rivers.
- Likelihood of urban flooding, hill torrents and flash floods may also exist due to isolated heavy downpours.
- Soaring temperatures in Upper Khyber Pakhtunkhwa, Gilgit-Baltistan and Kashmir could accelerate
- Farmers are advised to stay vigilant and plan water conservation for upcoming Kharif season cultivation.

Note: The current outlook is based on the May atmospheric conditions. In case of significant changes in atmospheric conditions, an update of monsoon outlook will be issued by the end of the June.

3.2.2 Comparison of 2022 to 2010 Floods in Khyber Pakhtunkhwa

The impacts of 2022 floods compared to 2010 floods are shown in table below in relation to the affected population and humanitarian caseload. From the data it is better illustrated that the although the intensity of 2022 floods were high in the Indius & Kabul River Tributries but the impact noted were less than 2010 floods. The inferences draws from the comparison are the better preparedness of the DRM Systems and communities in the province therefore; the impact felt was low compared to 2010 floods.

S.No.	Districts	Affected HH in Floods 2010 (Projected)	Affected HH in Floods 2022
1	Abbottabad	3,651	469
2	Bajaur	4,381	1,148
3	Bannu	7,940	91
4	Battagram	20,336	385
5	Buner	13,272	511
6	Charsadda	87,472	6,720
7	Chitral Lower	4,837	9,541
8	Chitral Upper	3,395	2,030
9	D.I.Khan	18,033	527,345
10	Dir Lower	19,714	5,362
11	Dir Upper	148,240	6,608
12	Hangu	18,764	966
13	Haripur	15,063	266
14	Karak	4,611	11,298
15	Khyber	13,0903	980
16	Kohat	16,705	0
17	Kohistan Lower	9,598	1,701
18	Kohistan Upper	6,571	3,031
19	Kolai Pallas	25,107	1,260
20	Kurram	14,826	1,029
21	Lakki Marwat	3,505	8,981
22	Malakand	6,571	3,185
23	Mansehra	3,146	161
24	Mardan	4,731	3,017
25	Mohmand	28,036	3,689
26	Nowshehra	52,583	6,853
27	Orakzai	6,717	14
28	Peshawar	730	784
29	Shangla	54,065	455
30	Swabi	125,300	1,736
31	Swat	15,539	1,631
32	Tank	14,894	27,860
33	Torghar	34,315	84
34	Waziristan North	3,524	742
35	Waziristan South	2,190	315
	TOTAL	929,261	640,248

3.2.3 Floods 2022 - Base line for Monsoon Contingency Planing 2023

Untill Monsoon 2022; the floods damages and lossess of the 2010 flood were used as the baseline for calculation of the case loads for the presumed scenarios. For better understanding of flood impacts on the vulnerable communities, it is vital to develop projected scenarios, which may help in identifying:

- i) The pre-impact vulnerability conditions.
- ii) The event-specific conditions that establish the level of disaster impact.
- iii) Suitable emergency management actions.
- iv) Financial impact for which resources may be requisitioned from the Provincial Government.

There are two main dimensions of flood impacts on the community in general i.e. physical and social. Casualties and property damages are the physical impacts of flood which can be measured, noticed and reported immediately to the response authorities. However, socio economic impacts, which include psychosocial, demographic, economic and political impacts can develop over a longer period and can be difficult to assess when they occur. This contingency plan only highlights the physical impact of the anticipated flood scenario on the population.

The corresponding caseloads to the scenario are the result of extensive consultation with Districts Administration, along with mathematical calculation of the presumed vulnerable population so that the desired steps would be taken in time of emergencies. Contingency Planning for under consideration of caseloads taking account of NFIs and FIs provision to the affectees. Minimum standards shall be maintained by providing relief to the effected population is at **Annexure-VI**.

a. Flood Impacts Scenarios

Projected households likely to be affected in 2023 based on 2022 flood data are shown in table below:



PROVINCIAL DISASTER MANAGEMENT AUTHORITY, GOVERNMENT OF KHYBER PAKHTUNKHWA

		DISTRI	CT WISE RELI	EF CASELOAD		
	Proje	cted for 2023 Effecte				
S. No.	Districts	Affected Househlods in 2022 Flood	Projected Vulnerable Population for 2023	Affected HH High Impact Flood Scenario	Affected HH Medium Impact Flood Scenario	Affected HH Low Impact Flood (Assumed for 2023)
1	Abbottabad	469	470	470	157	52
2	Bajaur	1,148	1,150	1,150	383	128
3	Bannu	91	91	91	30	10
4	Battagram	385	386	386	129	43
5	Buner	511	512	512	171	57
6	Charsadda	6,720	6,734	6,734	2,245	748
7	Chitral Lower	1,701	1,705	1,705	568	189
8	Chitral Upper	2,030	2,034	2,034	678	226
9	Dera Ismail Khan	527,345	528,453	528,453	176,151	58,717
10	Dir Lower	9,541	9,561	9,561	3,187	1,062
11	Dir Upper	6,608	6,622	6,622	2,207	736
12	Hangu	966	968	968	323	108
13	Haripur	266	267	267	89	30
14	Karak	11,298	11,322	11,322	3,774	1,258
15	Khyber	980	982	982	327	109
16	Kohat	0	0	0	0	0
17	Kohistan Lower	5,362	5,373	5,373	1,791	597
18	Kohistan Upper	3,031	3,037	3,037	1,012	337
19	Kolai Pallas	1,260	1,263	1,263	421	140
20	Kurram	1,029	1,031	1,031	344	115
21	Lakki Marwat	8,981	9,000	9,000	3,000	1,000
22	Malakand	3,185	3,192	3,192	1,064	355
23	Mansehra	161	161	161	54	18
24	Mardan	3,017	3,023	3,023	1,008	336
25	Mohmand	3,689	3,697	3,697	1,232	411
26	Nowshera	6,853	6,867	6,867	2,289	763
27	Orakzai	14	14	14	5	2
28	Peshawar	784	786	786	262	87
29	Shangla	455	456	456	152	51
30	Swabi	1,736	1,740	1,740	580	193
31	Swat	1,631	1,634	1,634	545	182
32	Tank	27,860	27,919	27,919	9,306	3,102
33	Torghar	84	84	84	28	9
34	Waziristan North	742	744	744	248	83
35	Waziristan South	315	316	316	105	35
	Total HH	640,248	641,594	641,594	213,865	71,288
	HH in Million	0.64	0.64	0.64	0.21	0.07

b. High Impact Scenario (as of Flood 2022)

ESTIN	MATED HUMANIT	TARIAN RESP	ONSE (RE	CLIEF ITEMS	NFIs) HIG	H IMPACT	SCENARIO 2023
S.No.	District	High Impact Scenario Caseload (HH)	Tents	Plastic Matt	Blankets	Tarpaulin	Kitchen Set (Water Cooler, Bukets, J.Cans, Cylender & Utensils)
1	Abbottabad	470	470	470	940	470	470
2	Bajaur	1,150	1,150	1,150	2,301	1,150	1,150
3	Bannu	91	91	91	182	91	91
4	Battagram	386	386	386	772	386	386
5	Buner	512	512	512	1024	512	512
6	Charsadda	6,734	6,734	6,734	13,468	6,734	6,734
7	Chitral Lower	1,705	1,705	1,705	3,409	1,705	1,705
8	Chitral Upper	2,034	2,034	2,034	4,069	2,034	2,034
9	Dera Ismail Khan	528,453	528,453	528,453	1056,907	528,453	528,453
10	Dir Lower	9,561	9,561	9,561	19,122	9,561	9,561
11	Dir Upper	6,622	6,622	6,622	13,244	6,622	6,622
12	Hangu	968	968	968	1936	968	968
13	Haripur	267	267	267	533	267	267
14	Karak	11,322	11,322	11,322	22,643	11,322	11,322
15	Khyber	982	982	982	1,964	982	982
16	Kohat	0	0	0	0	0	0
17	Kohistan Lower	5,373	5,373	5,373	10,747	5,373	5,373
18	Kohistan Upper	3,037	3,037	3,037	6,075	3,037	3,037
19	Kolai Pallas	1,263	1,263	1,263	2,525	1,263	1,263
20	Kurram	1,031	1,031	1,031	2,062	1,031	1,031
21	Lakki Marwat	9,000	9,000	9,000	18,000	9,000	9,000
22	Malakand	3,192	3,192	3,192	6,383	3,192	3,192
23	Mansehra	161	161	161	323	161	161
24	Mardan	3,023	3,023	3,023	6,047	3,023	3,023
25	Mohmand	3,697	3,697	3,697	7,394	3,697	3,697
26	Nowshera	6,867	6,867	6,867	13,735	6,867	6,867
27	Orakzai	14	14	14	28	14	14
28	Peshawar	786	786	786	1,571	786	786
29	Shangla	456	456	456	912	456	456
30	Swabi	1,740	1,740	1,740	3,479	1,740	1,740
31	Swat	1,634	1,634	1,634	3,269	1,634	1,634
32	Tank	27,919	27,919	27,919	55,837	27,919	27,919
33	Torghar	84	84	84	168	84	84
34	Waziristan North	744	744	744	1,487	744	744
35	Waziristan South	316	316	316	631	316	316
	TOTAL	641,594	641,594	641,594	1,283,188	641,594	641,594

	NANCIAL REQUII	REMENTS EST	TIMATED HUM	ANITARIAN	RESPONSE (R.	ELIEF ITEMS	NFIS) HIGH IMP	FINANCIAL REQUIREMENTS ESTIMATED HUMANITARIAN RESPONSE (RELIEF ITEMS NFIS) HIGH IMPACT SCENARIO 2023
S.No.	District	High Impact Scenario Caseload (HH)	Tents (Rs)	Plastic Matt (Rs)	Blankets (Rs)	Tarpaulin (Rs)	Hygiene Kits (Rs)	Kitchen Set (Water Cooler, Bukets, J.Cans, Cylender & Utensils) (Rs)
	Abbottabad	470	15,979,518	704,979	2,067,938	1,879,943	1,644,950	3,759,887
2	Bajaur	1,150	39,114,045	1,725,620	5,061,818	4,601,652	4,026,446	9,203,305
n	Bannu	91	3,100,504	136,787	401,242	364,765	319,169	729,530
4	Battagram	386	13,117,515	578,714	1,697,561	1,543,237	1,350,332	3,086,474
5	Buner	512	17,410,520	768,111	2,253,126	2,048,296	1,792,259	4,096,593
9	Charsadda	6,734	228,960,262	10,101,188	29,630,152	26,936,501	23,569,439	53,873,003
7	Chitral Lower	1,705	57,955,566	2,556,863	7,500,132	6,818,302	5,966,014	13,636,604
∞	Chitral Upper	2,034	69,165,079	3,051,401	8,950,775	8,137,068	7,119,935	16,274,136
6	Dera Ismail Khan	528,453	17,967,418,034	792,680,207	2,325,195,275	2,113,813,886	184,9587,151	4,227,627,773
10	Dir Lower	9,561	325,075,872	14,341,583	42,068,642	38,244,220	33,463,693	76,488,440
11	Dir Upper	6,622	225,144,257	9,932,835	29,136,316	26,487,560	23,176,615	52,975,119
12	Hangu	896	32,913,038	1,452,046	4,259,334	3,872,122	3,388,107	7,744,244
13	Haripur	267	9,063,010	399,839	1,172,860	1,066,237	932,957	2,132,473
14	Karak	11,322	384,939,440	16,982,622	49,815,692	45,286,993	39,626,119	9,0573,986
15	Khyber	982	33,390,038	1,473,090	4,321,064	3,928,240	3,437,210	7,856,480
16	Kohat	0	0	0	0	0	0	0
17	Kohistan Upper	3,037	103,270,618	4,556,057	1,3364,433	12,149,484	10,630,799	24,298,969

35.511.81	Total in Million							
35,511,812,983	Total in Rs							
5,132,750,338	2,245,578,273	2,555,491,137	2,811,040,254	952,764,048	21,814,188,933	641,594	TOTAL	
2,525,297	1,104,817	1,262,649	1,388,913	473,493	10,732,512	316	Waziristan South	35
5948,477	2,602,459	2,974,239	3271,663	1,115,340	25,281,029	744	Waziristan North	34
673,413	294,618	336,706	370,377	126,265	2,862,003	84	Torghar	33
223,348,491	97,714,965	111,674,245	122,841,670	41,877,842	949,231,085	27,919	Tank	32
13,075,427	5,720,499	6,537,713	7,191,485	2,451,643	55,570,564	1,634	Swat	31
13,917,192	6,088,772	6,958,596	7,654,456	2,609,474	59,148,068	1,740	Swabi	30
3,647,651	1,595,847	1,823,826	2,006,208	683,935	15,502,518	456	Shangla	29
6,285,184	2,749,768	3,142,592	3,456,851	1,178,472	26,712,031	786	Peshawar	28
112,235	49,103	56,118	61,729	21,044	477,001	14	Orakzai	27
54,939,239	24,035,917	27,469,620	30,216,582	10,301,107	233,491,767	6,867	Nowshera	26
29,574,034	12,938,640	14,787,017	16,265,719	5,,545,131	125,689,644	3,697	Mohmand	25
24,186,734	10,581,696	1,209,336	1,330,270	453,501	102,793,617	3023	Mardan	24
1,290,707	564,684	645,354	709,889	242,008	5,485,506	161	Mansehra	23
25,533,559	11,170,932	12,766,779	14,043,457	4,787,542	108,517,624	3,192	Malakand	22
42,986,167	18,806,448	21,493,083	23,642,392	8,059,906	182,691,209	5,373	Lower Kohistan	21
71,999,023	31,499,573	35,999,512	39,599,463	13,499,817	305,995,850	6,000	Lakki Marwat	20
8,249,304	3,609,070	4,124,652	4,537,117	1,546,744	35,059,540	1,031	Kurram	19
10,101,188	4,419,270	5,050,594	5,555,653	1,893,973	42,930,049	1,263	Kolai Pallas	18

4S) HIGH IMPACT SCENARIO 2023	Standard Food Package (Two Time Assistance for 30 Days) (wheat flour 40kg, Matches 1, Rice Sela 5kg, Dry Milk 910gram, Ghee 3kg, Sugar 3kg, Daal Chana 2kg, Daal Mong 1kg, Daal Masoor 1kg, China Powder 1kg, Iodene Salt 800g) in Rs	13,629,589	33,361,979	2,644,547	11,188,469	14,850,149	195,289,635	49,432,689	58,993,744	15,325,150,676	277,270,596	192,034,808	28,072,885	7,730,215	328,330,699
FINANCIAL REQUIREMENTS ESTIMATED HUMANITARIAN CASELOAD (FOOD ITEMS) HIGH IMPACT SCENARIO 2023	Standard Food Package (One Time Assistance for 15 Days) (Wheat Flour 40kg, Matches 1, Rice Sela 5kg, Dry Milk 910 gram, Ghee 3kg, Sugar 3kg, Daal Chana 2kg, Daal Mong 1kg, Daal Masoor 1kg, China Powder 1kg, Iodene Salt 800g) in Rs	6,835,944	16,732,758	1,326,377	5,611,596	7,448,118	97,947,853	24,793,050	29,588,414	7,686,355,744	139,065,546	96,315,389	14,080,004	3,877,103	164,674,828
LIMATED HUM	Affected Population	3,290	8,053	638	2,701	3,585	47,139	11,932	14,240	3,699,174	66,927	46,353	9/1/9	1,866	79,252
IREMENTS EST	High Impact Scenario Caseload (HH)	470	1,150	91	386	512	6,734	1,705	2,034	528,453	9,561	6,622	896	267	11,322
FINANCIAL REQU	District	Abbottabad	Bajaur	Bannu	Battagram	Buner	Charsadda	Chitral Lower	Chitral Upper	Dera Ismail Khan	Dir Lower	Dir Upper	Hangu	Haripur	Karak
	S.No.		2	3	4	5	9	7	∞	6	10	11	12	13	14

18,606.22	9,331.98	4.49	0.641,593,792	Total in Million	
18,606,219,970	9,331,981,704	4,491,157	641,594	Total in Rs	
9,154,202	4,591,306	2,210	316	Waziristan South	35
21,563,231	10,815,075	5,205	744	Waziristan North	34
2,441,120	1,224,348	589	84	Torghar	33
809,638,278	406,075,474	195,430	27,919	Tank	32
47,398,422	23,772,760	11,441	1,634	Swat	31
50,449,822	25,303,195	12,178	1,740	Swabi	30
13,222,736	6,631,886	3,192	456	Shangla	29
22,783,791	11,427,250	5,500	786	Peshawar	28
406,853	204,058	86	14	Orakzai	27
199,154,742	99,886,404	48,072	6,867	Nowshera	26
107,205,873	53,769,290	25,877	3,697	Mohmand	25
87,676,909	43,974,505	21,163	3,023	Mardan	24
4,678,814	2,346,667	1,129	161	Mansehra	23
92,559,150	46,423,201	22,342	3,192	Malakand	22
260,996,460	130,903,225	62,999	9,000	Lakki Marwat	21
29,903,725	14,998,265	7,218	1,031	Kurram	20
36,616,807	18,365,222	8,839	1,263	Kolai Pallas	19
155,824,855	78,154,224	37,613	5,373	Kohistan Lower	18
88,083,762	44,178,563	21,262	3,037	Kohistan Upper	17
0	0	0	0	Kohat	16
28,479,738	14,284,062	6,874	985	Khyber	15

c. Medium Impact Scenario – Monsoon 2023

EST	TIMATED HUMAN	NITARIAN RES	SPONSE (RI	ELIEF ITE	MS NFIs) HI	GH IMPACT	SCENARIO 2023
S. No.	District	Medium Impact Scenario Caseload (HH)	Tents	Plastic Matt	Blankets	Tarpaulin	Kitchen Set (Water Cooler, Bukets, J.Cans, Cylender & Utensils)
1	Abbottabad	157	157	157	313	157	157
2	Bajaur	383	383	383	767	383	383
3	Bannu	30	30	30	61	30	30
4	Battagram	129	129	129	257	129	129
5	Buner	171	171	171	341	171	171
6	Charsadda	2,245	2,245	2,245	4,489	2,245	2,245
7	Chitral Lower	568	568	568	1,136	568	568
8	Chitral Upper	678	678	678	1,356	678	678
9	Dera Ismail Khan	176,151	176,151	176,151	352,302	176,151	176,151
10	Dir Lower	3,187	3,187	3,187	6,374	3,187	3,187
11	Dir Upper	2,207	2,207	2,207	4,415	2,207	2,207
12	Hangu	323	323	323	645	323	323
13	Haripur	89	89	89	178	89	89
14	Karak	3,774	3,774	3,774	7,548	3,774	3,774
15	Khyber	327	327	327	655	327	327
16	Kohat	-	-	-	-	-	-
17	Kohistan Lower	1,791	1,791	1,791	3,582	1,791	1,791
18	Kohistan Upper	1,012	1,012	1,012	2,025	1,012	1,012
19	Kolai Pallas	421	421	421	842	421	421
20	Kurram	344	344	344	687	344	344
21	Lakki Marwat	3,000	3,000	3,000	6,000	3,000	3,000
22	Malakand	1,064	1,064	1,064	2,128	1,064	1,064
23	Mansehra	54	54	54	108	54	54
24	Mardan	1,008	1,008	1,008	2,016	1,008	1,008
25	Mohmand	1,232	1,232	1,232	2,465	1,232	1,232
26	Nowshera	2,289	2,289	2,289	4,578	2,289	2,289
27	Orakzai	5	5	5	9	5	5
28	Peshawar	262	262	262	524	262	262
29	Shangla	152	152	152	304	152	152
30	Swabi	580	580	580	1160	580	580
31	Swat	545	545	545	1090	545	545
32	Tank	9,306	9,306	9,306	18,612	9,306	9,306
33	Torghar	28	28	28	56	28	28
34	Waziristan North	248	248	248	496	248	248
35	Waziristan South	105	105	105	210	105	105
	TOTAL	213,865	213,865	213,865	427,729	213,865	213,865

	FINANCIAL REQUIREMENTS ESTIMATED	EMENTS EST		ANITARIAN RE	SPONSE (REL	IEF ITEMS NF	Is) MEDIUM IMP	HUMANITARIAN RESPONSE (RELIEF ITEMS NFIS) MEDIUM IMPACT SCENARIO 2023
S.No.	District	Medium Impact Scenario Caseload (HH)	Tents (Rs)	Plastic Matt (Rs)	Blankets (Rs)	Tarpaulin (Rs)	Hygiene Kits (Rs)	Kitchen Set (Water Cooler, Bukets, J.Cans, Cylender & Utensils) in Rs
	Abbottabad	157	5,326,506	234,993	689,313	626,648	548,317	1,253,296
2	Bajaur	383	13,038,015	575,207	1,687,273	1,533,884	1,342,149	3,067,768
3	Bannu	30	1,033,501	45,596	133,747	121,588	106,390	243,177
4	Battagram	129	4,372,505	192,905	565,854	514,412	450,111	1,028,825
5	Buner	171	5,803,507	256,037	751,042	682,765	597,420	1,365,531
9	Charsadda	2,245	76,320,087	3,367,063	9,876,717	8,978,834	7,856,480	17,957,668
7	Chitral Lower	268	19,318,522	852,288	2,500,044	2,272,767	1,988,671	4,545,535
∞	Chitral Upper	829	23,055,026	1,017,134	2,983,592	2,712,356	2,373,312	5,424,712
6	Dera Ismail Khan	176,151	5,989,139,345	264,226,736	775,065,092	704,604,629	616,529,050	1,409,209,258
10	Dir Lower	3,187	108,358,624	4,780,528	14,022,881	12,748,073	11,154,564	25,496,147
11	Dir Upper	2,207	75,048,086	3,310,945	9,712,105	8,829,187	7,725,538	17,658,373
12	Hangu	323	10,971,013	484,015	1,419,778	1,290,707	1,129,369	2,581,415
13	Haripur	68	3,021,003	133,280	390,953	355,412	310,986	710,824
14	Karak	3,774	128,313,147	5,660,874	16,605,231	15,095,664	13,208,706	30,191,329
15	Khyber	327	11,130,013	491,030	1,440,355	1,309,413	1,145,737	2,618,827
16	Kohat	ı	1	1	ı	ı	1	1

11,848.10	Total in Million							
11,848,098,693.82	Total in Rs							
1,710,916,779	748,526,091	855,458,389	941,004,228	320,796,896	7,271,396,310	213,865	TOTAL	
841,766	368,272	420,883	462,971	157,831	3,577,504	105	Waziristan South	35
1,982,826	867,486	991,413	1,090,554	371,780	8,427,010	248	Waziristan North	34
224,471	98,206	112,235	123,459	42,088	954,001	28	Torghar	33
74,449,497	32,571,655	37,224,748	40,947,223	13,959,281	316,410,362	9,306	Tank	32
4,358,476	1,906,833	2,179,238	2,397,162	817,214	18,523,521	545	Swat	31
4,639,064	2,029,591	2,319,532	2,551,485	869,825	19,716,023	580	Swabi	30
1,215,884	531,949	607,942	668,736	227,978	5,167,506	152	Shangla	29
2,095,061	916,589	1,047,531	1,152,284	392,824	8,904,010	262	Peshawar	28
37,412	16,368	18,706	20,576	7,015	159,000	5	Orakzai	27
18,313,080	8,011,972	9,156,540	10,072,194	3,433,702	77,830,589	2,289	Nowshera	26
9,858,011	4,312,880	4,929,006	5,421,906	1,848,377	41,896,548	1,232	Mohmand	25
8,062,245	3,527,232	4,031,122	4,434,234	1,511,671	34,264,539	1,008	Mardan	24
430,236	188,228	215,118	236,630	80,669	1,828,502	54	Mansehra	23
8,511,186	3,723,644	4,255,593	4,681,152	1,595,847	36,172,541	1,064	Malakand	22
23,999,674	10,499,858	11,999,837	13,199,821	4,499,939	101,998,617	3,000	Lakki Marwat	21
2,749,768	1,203,023	1,374,884	1,512,372	515,581	11,686,513	344	Kurram	20
3,367,063	1,473,090	1,683,531	1,851,884	631,324	14,310,016	421	Kolai Pallas	19
8,099,656	3,543,600	4,049,828	4,454,811	1,518,686	34,423,539	1,012	Kohistan Upper	18
14,328,722	6,268,816	7,164,361	7,880,797	2,686,635	60,897,070	1,791	Kohistan Lower	17

2	INANCIAL REQUIR	EMENTS ESTIMA	TED HUMANITA	FINANCIAL REQUIREMENTS ESTIMATED HUMANITARIAN CASELOAD (FOOD ITEMS) MEDIUM IMPACT SCENARIO 2023	EDIUM IMPACT SCENARIO 2023
S.No.	District	Medium Impact Scenarion Caseload (HH)	Affected Population	Standard Food Package (One Time Assistance for 15 Days) (wheat flour 40kg, Matches 1, Rice Sela 5kg, Dry Milk 910gram, Ghee 3kg, Sugar 3kg, Daal Chana 2kg, Daal Mong 1kg, Daal Masoor 1kg, China Powder 1kg, Iodene Salt 800g)	Standard Food Package (Two Time Assistance for 30 Days) (wheat flour 40kg, Matches 1, Rice Sela 5kg, Dry Milk 910gram, Ghee 3kg, Sugar 3kg, Daal Chana 2kg, Daal Mong 1kg, Daal Masoor 1kg, China Powder 1kg, Iodene Salt 800g)
—	Abbottabad	157	1,097	2,278,648	4,543,196
2	Bajaur	383	2,684	5,577,586	11,120,660
3	Bannu	30	213	442,126	881,516
4	Battagram	129	006	1,870,532	3,729,490
5	Buner	171	1,195	2,482,706	4,950,050
9	Charsadda	2,245	15,713	32,649,284	65,096,545
7	Chitral Lower	268	3,977	8,264,350	16,477,563
~	Chitral Upper	829	4,747	9,862,805	19,664,581
6	Dera Ismail Khan	176,151	1,233,058	2,562,118,581	5,108,383,559
10	Dir Lower	3,187	22,309	46,355,182	92,423,532
Ξ	Dir Upper	2,207	15,451	32,105,130	64,011,603
12	Hangu	323	2,259	4,693,335	9,357,628
13	Haripur	68	622	1,292,368	2,576,738
14	Karak	3,774	26,417	54,891,609	109,443,566

15	Khyber	327	2,291	4,761,354	9,493,246
16	Kohat	ı	I	1	ı
17	Kohistan Lower	1,791	12,538	26,051,408	51,941,618
18	Kohistan Upper	1,012	7,087	14,726,188	29,361,254
19	Kolai Pallas	421	2,946	6,121,741	12,205,602
20	Kurram	344	2,406	4,999,422	806'.208
21	Lakki Marwat	3,000	21,000	43,634,408	86,998,820
22	Malakand	1,064	7,447	15,474,400	30,853,050
23	Mansehra	54	376	782,222	1,559,605
24	Mardan	1,008	7054	14,658,168	29,225,636
25	Mohmand	1,232	8,626	17,923,097	35,735,291
56	Nowshera	2,289	16,024	33,295,468	66,384,914
27	Orakzai	5	33	68,019	135,618
28	Peshawar	262	1,833	3,809,083	7,594,597
29	Shangla	152	1,064	2,210,629	4,407,579
30	Swabi	280	4,059	8,434,398	16,816,607
31	Swat	545	3,814	7,924,253	15,799,474
32	Tank	9,306	65,143	135,358,491	269,879,426
33	Torghar	28	196	408,116	813,707
34	Waziristan North	248	1,735	3,605,025	7,187,744
35	Waziristan South	105	737	1,530,435	3,051,401
	Total in Rs	213865	1497052	3,110,660,569	6,202,073,323
	Total in Million	0.213864597	1.50	3,110.66	6,202.07

d. Low Impact Scenario – Monsoon 2023

	ESTIMATED HU	UMANITARIAN	N RESPONSE	(RELIEF IT	EMS - NFIs) LOW IMPA	CT SCENARIO 2023
S. No.	District	Low Impact Scenario Caseload (HH)	Tents	Plastic Matt	Blankets	Tarpaulin	Kitchen Set (Water Cooler, Bukets, J.Cans, Cylender & Utensils)
1	Abbottabad	52	52	52	104	52	52
2	Bajaur	128	128	128	256	128	128
3	Bannu	10	10	10	20	10	10
4	Battagram	43	43	43	86	43	43
5	Buner	57	57	57	114	57	57
6	Charsadda	748	748		1,496	748	748
7	Chitral Lower	189	189	189	379	189	189
8	Chitral Upper	226	226	226	452	226	226
9	Dera Ismail Khan	58,717	58,717	58,717	117,434	58,717	58,717
10	Dir Lower	1,062	1,062	1,062	2,125	1,062	1,062
11	Dir Upper	736	736	736	1,472	736	736
12	Hangu	108	108	108	215	108	108
13	Haripur	30	30	30	59	30	30
14	Karak	1,258	1,258	1,258	2,516	1,258	1,258
15	Khyber	109	109	109	218	109	109
16	Kohat	-	-	-	-	-	-
17	Kohistan Lower	597	597	597	1,194	597	597
18	Kohistan Upper	337	337	337	675	337	337
19	Kolai Pallas	140	140	140	281	140	140
20	Kurram	115	115	115	229	115	115
21	Lakki Marwat	1,000	1,000	1,000	2,000	1,000	1,000
22	Malakand	355	355	355	709	355	355
23	Mansehra	18	18	18	36	18	18
24	Mardan	336	336	336	672	336	336
25	Mohmand	411	411	411	822	411	411
26	Nowshera	763	763	763	1,526	763	763
27	Orakzai	2	2	2	3	2	2
28	Peshawar	87	87	87	175	87	87
29	Shangla	51	51	51	101	51	51
30	Swabi	193	193	193	387	193	193
31	Swat	182	182	182	363	182	182
32	Tank	3,102	3,102	3,102	6,204	3,102	3,102
33	Torghar	9	9	9	19	9	9
34	Waziristan North	83	83	83	165	83	83
35	Waziristan South	35	35	35	70	35	35
	TOTAL	641,594	71,288	71,288	142,576	71,288	71,288

S.No. District Low Impact Scenario Tents Casclad (Rs) Rsy Rsy Rsy (Rsy) (Water Cooler, Image, Int.) Rsy Rsy (Water Cooler, Image, Image, Image, Int.) Rsy Rsy (Water Cooler, Image,		FINANCIAL REQUIREMENT ESTIMATED HUMANITARIAN RESPONSE (RELIEF ITEMS NFIS) LOW IMPACT SCENARIO 2023	REMIENT ESTI	MATED HUMA	NITARIAN RE	SPONSE (RE	LIEF ITEMS NI	Is) LOW IMPACT	SCENARIO 2023
Abbottabad 52 1,775,502 78,331 229,771 208,883 182,772 Bajaur 128 4,346,005 191,736 562,424 511,295 447,383 1,1 Bamu 10 344,500 15,199 44,882 40,529 35,463 1,1 Battagram 43 1,457,502 64,302 188,618 171,471 150,037 3 Charsadda 57 1,934,502 85,346 250,347 251,588 199,140 4 Chitral Lower 189 6,439,507 284,096 833,348 757,589 662,890 1,58 Obera Ismail Khan 58,717 1,996,379,782 88,075,579 258,355,031 234,868,210 205,509,683 469,7 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 8,4 Hangu 1,08 3,57,004 11,393,368 5,943,062 2,575,179 5,8 Karak 1,258 4,473,299 4,402,302 2,440,2	S.No.	District	Low Impact Scenario Caseload (HH)	Tents (Rs)	Plastic Matt (Rs)	Blankets (Rs)	Tarpaulin (Rs)	Hygiene Kits (Rs)	Kitchen Set (Water Cooler, Bukets, J.Cans, Cylender & Utensils) in Rs
Batianr 128 4,346,005 191,736 562,424 511,295 447,383 1,0 Bammu 10 344,500 15,199 44,582 40,529 35,463 1,0 Battagram 43 1,457,502 64,302 188,618 171,471 150,037 35,463 Buncr 57 1,934,502 85,346 250,347 227,588 199,140 44,57,509 Charsadda 748 25,440,029 1,122,354 3,292,239 2,992,945 2,618,827 5,55 Chitral Lower 189 6,439,507 284,096 833,348 757,589 662,890 1,5 Dera Ismail Khan 226 7,683,009 333,348 757,589 662,890 1,5 Dir Lower 1,062 36,119,541 1,593,503 4,674,294 4,249,538 3,718,188 8,4 Dir Lower 736 25,106,029 1,103,488 2,943,062 2,535,179 5,8 Hangu 1,084 1,533,8 473,259 4,249,388		Abbottabad	52	1,775,502	78,331	229,771	208,883	182,772	417,765
Bannu 10 344,500 15,199 44,582 40,529 35,463 Battagram 43 1,437,502 64,302 188,618 171,471 150,037 33 Buner 57 1,934,502 85,346 250,347 227,588 199,140 44 Charsadda 748 25,440,029 1,122,354 3,292,239 2,992,945 2,618,827 5,5 Chirral Lower 189 6,439,507 284,096 833,348 757,589 662,890 1,5 Chirral Loper 226 7,685,009 339,045 994,531 294,986,210 791,104 1,8 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 8,4 Dir Lower 1,062 36,119,541 1,103,648 3,237,368 2,943,062 2,575,09,683 469,7 Baripur 30 1,007,001 1,113,368 4,674,294 4,249,358 3,718,09 4,474,27 130,318 118,471 103,662 2,575,179	2	Bajaur	128	4,346,005	191,736	562,424	511,295	447,383	1,022,589
Battagram 43 1,457,502 64,302 188,618 171,471 150,037 Buner 57 1,934,502 85,346 250,347 227,588 199,140 Charsadda 748 25,440,029 1,122,354 3.292,239 2,992,945 2,618,827 Chitral Lower 189 6,439,507 284,096 833,348 757,589 662,890 Chitral Upper 226 7,685,009 339,045 994,531 904,119 791,104 Dera Ismail Khan 58,717 1,996,379,782 88,075,579 258,355,031 234,868,210 205,509,683 46 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,388 3,718,188 4,674,294 4,249,388 3,718,188 4,402,902 1,103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 1103,662 <td>3</td> <td>Bannu</td> <td>10</td> <td>344,500</td> <td>15,199</td> <td>44,582</td> <td>40,529</td> <td>35,463</td> <td>81,059</td>	3	Bannu	10	344,500	15,199	44,582	40,529	35,463	81,059
Buner 57 1,934,502 85,346 250,347 227,588 199,140 Charsadda 748 25,440,029 1,122,354 3,292,239 2,992,945 2,618,827 Chitral Lower 189 6,439,507 284,006 833,348 757,589 662,890 Chitral Lower 189 6,439,507 284,006 833,348 757,589 662,890 Dera Ismail Khan 58,717 1,996,379,782 88,075,579 258,355,031 234,868,210 205,509,683 46 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 Dir Upper 736 25,016,029 1,103,648 3,237,368 2,943,062 2,575,179 Hangu 108 3,657,004 161,338 473,253 430,236 376,456 Karak 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 1 Kohat - - - - - - -	4	Battagram	43	1,457,502	64,302	188,618	171,471	150,037	342,942
Charsadda 748 25,440,029 1,122,354 3,292,239 2,992,945 2,618,827 Chitral Lower 189 6,439,507 284,096 833,348 757,589 662,890 Chitral Lower 226 7,685,009 339,045 994,331 904,119 791,104 Dera Ismail Khan 58,717 1,996,379,782 88,075,579 258,355,031 234,868,210 205,509,683 46 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 Dir Upper 736 25,016,029 1,103,648 3,237,368 2,943,062 2,575,179 Hangu 108 3,657,004 161,338 473,259 430,236 376,456 Haripur 30 1,007,001 44,427 136,318 4402,902 1 Kohat 109 3,710,004 1,886,936 5,535,077 5,031,888 4,402,902 1 Kohat - - - - - - Kohat -<	5	Buner	57	1,934,502	85,346	250,347	227,588	199,140	455,177
Chitral Lower 189 6,439,507 284,096 833,348 757,589 662,890 Chitral Upper 226 7,685,009 339,045 994,531 904,119 791,104 46 Dera Ismail Khan 58,717 1,996,379,782 88,075,579 258,355,031 234,868,210 205,509,683 46 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 46 Dir Upper 736 25,016,029 1,103,648 3,237,368 2,943,062 2,575,179 75 Hangu 108 3,657,004 161,338 473,259 430,236 376,456 77 Karak 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 1 Kohat - - - - - - Kohistan Lower 597 20,299,023 2,626,932 2,388,120 2,089,605 -	9	Charsadda	748	25,440,029	1,122,354	3,292,239	2,992,945	2,618,827	5,985,889
Chitral Upper 226 7,685,009 339,045 994,531 904,119 791,104 46 Dera Ismail Khan 58,717 1,996,379,782 88,075,579 258,355,031 234,868,210 205,509,683 46 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 46 Dir Upper 736 25,016,029 1,103,648 3,237,368 2,943,062 2,575,179 75,616,029 1,007,001 44,427 130,318 118,471 103,662 118,471 103,662 1 Khyber 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 1 Kohat - - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 20,91,104 - - -	7	Chitral Lower	189	6,439,507	284,096	833,348	757,589	662,890	1,515,178
Dera Ismail Khan 58,717 1,996,379,782 88,075,579 258,355,031 234,868,210 205,509,683 46 Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 9,718,188 Dir Upper 736 25,016,029 1,103,648 3,237,368 2,943,062 2,575,179 7,575,179 Hangu 108 3,657,004 161,338 473,259 430,236 376,456 7,575,179 Haripur 30 1,007,001 44,427 130,318 118,471 103,662 1 Khyber 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 1 Kohat - - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605 - -	∞	Chitral Upper	226	7,685,009	339,045	994,531	904,119	791,104	1,808,237
Dir Lower 1,062 36,119,541 1,593,509 4,674,294 4,249,358 3,718,188 Dir Upper 736 25,016,029 1,103,648 3,237,368 2,943,062 2,575,179 Hangu 108 3,657,004 161,338 473,259 430,236 376,456 Haripur 30 1,007,001 44,427 130,318 118,471 103,662 Karak 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 1 Kohat - - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605	6	Dera Ismail Khan	58,717	1,996,379,782	88,075,579	258,355,031	234,868,210	205,509,683	469,736,419
Dir Upper 736 25,016,029 1,103,648 3,237,368 2,943,062 2,575,179 Hangu 108 3,657,004 161,338 473,259 430,236 376,456 Haripur 30 1,007,001 44,427 130,318 118,471 103,662 Karak 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 Kohat - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605	10	Dir Lower	1,062	36,119,541	1,593,509	4,674,294	4,249,358	3,718,188	8,498,716
Hangu 108 3,657,004 161,338 473,259 430,236 376,456 Haripur 30 1,007,001 44,427 130,318 118,471 103,662 Karak 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 Khyber 109 3,710,004 163,677 480,118 436,471 381,912 Kohat - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605	11	Dir Upper	736	25,016,029	1,103,648	3,237,368	2,943,062	2,575,179	5,886,124
Haripur 30 1,007,001 44,427 130,318 118,471 103,662 Karak 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 Khyber 109 3,710,004 163,677 480,118 436,471 381,912 Kohat - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605	12	Hangu	108	3,657,004	161,338	473,259	430,236	376,456	860,472
Karak 1,258 42,771,049 1,886,958 5,535,077 5,031,888 4,402,902 Khyber 109 3,710,004 163,677 480,118 436,471 381,912 Kohat - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605	13	Haripur	30	1,007,001	44,427	130,318	118,471	103,662	236,941
Khyber 109 3,710,004 163,677 480,118 436,471 381,912 Kohat - - - - - - Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605 4,	14	Karak	1,258	42,771,049	1,886,958	5,535,077	5,031,888	4,402,902	10,063,776
Kohat - <td>15</td> <td>Khyber</td> <td>109</td> <td>3,710,004</td> <td>163,677</td> <td>480,118</td> <td>436,471</td> <td>381,912</td> <td>872,942</td>	15	Khyber	109	3,710,004	163,677	480,118	436,471	381,912	872,942
Kohistan Lower 597 20,299,023 895,545 2,626,932 2,388,120 2,089,605	16	Kohat	ı	ı	ı	•	ľ	-	ı
	17	Kohistan Lower	597	20,299,023	895,545	2,626,932	2,388,120	2,089,605	4,776,241

916,589 7,999,891 2,837,062 143,412 2,687,415 3,286,004 6,104,360 12,471 698,354 405,295 1,546,355 1,546,355 1,546,355 24,816,499 74,824 660,942 280,589 570,305,593 3,949,366,231	401,008 3,499,953 1,241,215 62,743 62,744 1,175,744 1,437,627 2,670,657 2,670,657 2,670,530 676,530 676,530 177,316 10,857,218 32,735 289,162 122,757 Total in Rs	458,295 3,999,946 1,418,531 1,418,531 71,706 1,643,002 3,052,180 6,235 3,052,180 773,177 773,177 773,177 726,413 12,408,249 37,412 330,471 140,294	504,124 4,399,940 1,560,384 1,478,078 1,478,078 1,807,302 3,357,398 6,859 6,859 222,912 850,495 799,054 13,649,074 41,153 363,518 154,324 313,668,076	171,860 1,499,980 26,890 26,890 616,126 616,126 1,144,567 2,338 130,941 75,993 289,942 272,405 4,653,094 14,029 123,927 52,610	3,895,504 33,999,539 12,057,514 609,501 11,421,513 13,965,516 25,943,530 53,000 2,968,003 1,722,502 6,572,008 6,174,507 105,470,121 318,000 2,809,003 1,192,501 1,192,501 1,192,501		115 1,000 355 18 336 411 763 2 87 87 87 81 193 182 9 9 83 35 71,289
570,305,	249,508,695	285,152,797	313,668,076	106,932,301		2,423,798,769	2,423,798,7
280,589	122,757	140,294	154,324	52,610		1,192,501	
660,942	289,162	330,471	363,518	123,927		2,809,003	
74,824	32,735	37,412	41,153	14,029		318,000	
24,816,499	10,857,218	12,408,249	13,649,074	4,653,094		105,470,121	
1,452,825	635,611	726,413	799,054	272,405		6,174,507	
1,546,355	676,530	773,177	850,495	289,942		6,572,008	
405,295	177,316	202,647	222,912	75,993		1,722,502	
698,354	305,530	349,177	384,095	130,941		2,968,003	
12,471	5,456	6,235	6,859	2,338		53,000	
6,104,360	2,670,657	3,052,180	3,357,398	1,144,567		25,943,530	
3,286,004	1,437,627	1,643,002	1,807,302	616,126		13,965,516	
2,687,415	1,175,744	1,343,707	1,478,078	503,890		11,421,513	
143,412	62,743	71,706	78,877	26,890		609,501	
2,837,062	1,241,215	1,418,531	1,560,384	531,949		12,057,514	
7,999,891	3,499,953	3,999,946	4,399,940	1,499,980		33,999,539	
916,589	401,008	458,295	504,124	171,860		3,895,504	
1,122,354	491,030	561,177	617,295	210,441		4,770,005	140 4,770,005
2,699,885	1,101,200	1,349,943	1,484,937	27,000		11,474,513	337 11,474,513

OW IMPACT SCENARIO 2023	Standard Food Package (Two Time Assistance for 30 Days) (wheat flour 40kg, Matches 1, Rice Sela 5kg, Dry Milk 910gram, Ghee 3kg, Sugar 3kg, Daal Chana 2kg, Daal Mong 1kg, Daal Masoor 1kg, China Powder 1kg, Iodene Salt 800g)	1,514,399	3,706,887	293,839	1,243,163	1,650,017	21,698,848	5,492,521	6,554,860	1,702,794,520	30,807,844	21,337,201	3,119,209	858,913	36,481,189	3,164,415
D HUMANITARIAN CASELOAD (FOOD ITEMS) LOW IMPACT SCENARIO 2023	Standard Food Package (One Time Assistance for 15 Days) (wheat flour 40kg, Matches 1, Rice Sela 5kg, Dry Milk 910gram, Ghee 3kg, Sugar 3kg, Daal Chana 2kg, Daal Mong 1kg, Daal Masoor 1kg, China Powder 1kg, Iodene Salt 800g)	759,549	1,859,195	147,375	623,511	827,569	10,883,095	2,754,783	3,287,602	854,039,527	15,451,727	10,701,710	1,564,445	430,789	18,297,203	1,587,118
TED HUMANITA	Affected Population	366	895	71	300	398	5,238	1,326	1,582	411,019	7,436	5,150	753	207	8,806	764
REMENT ESTIMA	Low Impact Scenario Caseload (HH)	52	128	10	43	57	748	189	226	58,717	1,062	736	108	30	1,258	109
FINANCIAL REQUIREMENT ESTIMATE	District	Abbottabad	Bajaur	Bannu	Battagram	Buner	Charsadda	Chitral Lower	Chitral Upper	Dera Ismail Khan	Dir Lower	Dir Upper	Hangu	Haripur	Karak	Khyber
	No.	1	2	3	4	5	9	7	∞	6	10	11	12	13	14	15

2,067.36	1,036.89	0.50	0.071288199	Total in Million	
2,067,357,778	1,036,886,855	499014	71288	Total in Rs	
1,017,134	510,145	246	35	Waziristan South	35
2,395,915	1,201,675	578	83	Waziristan North	34
271,236	136,039	65	6	Torghar	33
89,959,809	45,119,497	21,714	3,102	Tank	32
5,266,491	2,641,418	1,271	182	Swat	31
5,605,536	2,811,466	1,353	193	Swabi	30
1,469,193	736,876	355	51	Shangla	29
2,531,532	1,269,694	611	87	Peshawar	28
45,206	22,673	11	2	Orakzai	27
22,128,305	11,098,489	5,341	763	Nowshera	26
11,911,764	5,974,366	2,875	411	Mohmand	25
9,741,879	4,886,056	2,351	336	Mardan	24
519,868	260,741	125	18	Mansehra	23
10,284,350	5,158,133	2,482	355	Malakand	22
28,999,607	14,544,803	7,000	1,000	Lakki Marwat	21
3,322,636	1,666,474	802	115	Kurram	20
4,068,534	2,040,580	982	140	Kolai Pallas	19
9,787,085	4,908,729	2,362	337	Kohistan Upper	18
17,313,873	8,683,803	4,179	597	Kohistan Lower	17
	•	1	1	Kohat	16

FUNDS NEEDED FOR IN & OFF CAMP / EVACUATION OF THE POPULATION Item / Cost High Impact Scenario Medium Impact Scenario Low Impact Scenario Estimated Affected Population 3.2200 (in Millions) (in Millions) Cost of the NFIs 1.497052 0.4990 Cost of the FIs (Two Time Assitance) 18,606.22 6,202.07 2,067.36 Cost of the Media Campaign 5 5 5

3.2.4 Gender Segregated Vulnerable Population of 32 Most Vulnerable Districts

TABLE PROVIDES DETAILS OF CURRENT VULNERABLE POPULATION IN THE AFFECTED DISTRICTS OF 2010 FLOOD OF KHYBER PAKHTUNKHWA

Wi	of Sexual Violence Cases no Will Seek Care % of Total WRA)	99999	5,454	5,835	2,383
who will E	r of Pregnant Women xperience Complications Fotal Pregnant Women)	3,988	3,263	3,491	1,426
	ected Live Births in Next 12 Month	35,450	29,012	31,035	12,678
Curren	ntly Pregnant Women	26,587	21,759	23,276	9,508
	f Reproductive Age 25% d population (WRA)	333,272	272,747	291,768	119,187
(15% as	on with Disabilities s per Total Population r WHO Standards)	199,963	163,648	175,060	71,512
(7% of t	Older People total population as per WHO)	93,316	76,369	81,694	33,372
	Girls 48%	332,738	272,310	291,300	118,996
Total Children Under 18 Ages	Boys 52%	360,467	295,002	315,575	128,912
	52 % of Total Population as per UNICEF)	693,206	567,313	928,909	247,909
	Transgender	36	99	24	35
	Female	49.1% 654,546	49% 534,583	49.2% 574,198	50% 238,374
	Male	50.8% 677,209	51% 556,403	50.8% 592,872	50% 238,374
	otal Population s of 2017 Census)	1,333,089	1,090,987	1,167,071	476,749
	District	Abbottabad	Bajaur	Bannu	Batagram
	S.No.	П	7	m	4

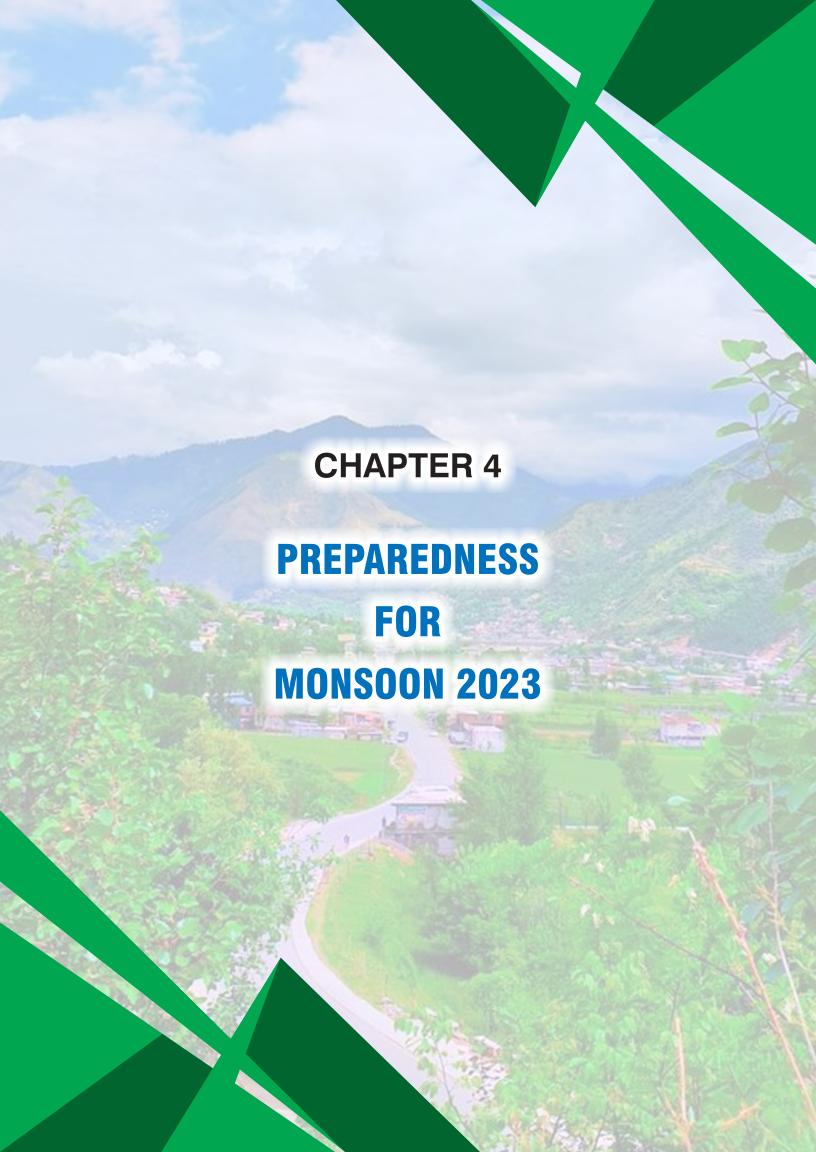
2,678 4,477	47 8,081	1,338 2,237	4,862 8,125	4,296 7,180	31 4732	1,552 2,594	5,007	13 3,531	44 4,921		3,924	824 1,377	3,076	21 4,381	55 3,601	54 7,778	7,097 11,862	01
	8 6,447				7 2,831		2,996	2,113	3 2,944		7 2,348			9 2,621	2,155	0 4,654		1 410
59 23,812	33 42,978	11,896	11 43,214	38,184	75 25,167	47 13,796	74 26,632	86 18,782	30 26,173		50 20,867	94 7,325	73 16,364	75 23,299	66 19,154	28 41,370	15 63,087	75.07
65 17,859	50 32,233	41 8,922	32,411	79 28,638	05 18,875	03 10,347	79 19,974	75 14,086	61 19,630		78 15,650	65 5,494	43 12,273	46 17,475	74 14,366	36 31,028	00 47,315	0770
9 223,865	0 40,4050	111,841	3 406,272	358,979	4 236,605	11 129,703	7 250,379	5 176,575	9 246,061		7 196,178	9 68,865	153,843	.8 219,046	5 180,074	1 388,936	9 593,100	110 207
134,319	4 242,430	5 67,105	5 243,763	5 215,388) 141,964	5 77,821	5 150,227) 105,945	7 147,639		117,707	2 41,319	5 92,305	3 131,428) 108,045	1 233,361	7 356,009	171 151
62,682	113,134	31,316	113,756	100,515	66,249	36,316	70,106	49,440	68,897		54,930	19,282	43,076	61,333	50,420	108,901	166,137	70000
223,506	437,019	120,968	439,423	388,271	255,912	129,494	249,977	1,886,300	245,667		212,185	68,755	153,596	218,694	179,786	388,312	592,400	110 207
242,132	437,019	120,968	439,423	388,271	255,912	140,286	270,809	1,886,300	266,139		212,185	74,484	166,396	236,919	194,769	420,672	641,767	10000
465,639	840,423	232,629	845,045	746,676	492,139	269,781	520,787	367,275	511,807		408,049	143,239	319,993	455,614	374,554	808,985	1,234,167	047.740
33	Π	22	10	20	41	35	47	43	75		13	12	4	4	33	25	62	1
52.2% 449,520	51% 824,260	49.6% 221,892	48.5% 788,167.68	51% 732,318	51% 482,675	52% 269,781	50.3% 503,762	51%360,213	48.7% 479,327		45.9% 360,183	48% 132,221	50.1% 308,301	49% 429,330	49% 352,945	50.4% 784,093	49.4% 1,172,459	COO CCC /01 OV
49.8% 445,939	49% 791,937.02	50.4% 225,470	51.5% 836,920.32	49% 703,599	49% 463,747	48% 249,029	49.7% 497,752	49% 346,087	51.3% 504,918		54.1% 424,529	52% 143,239	49.9% 307,070	51% 446,853	51% 367,350	49.6% 7,71,648	50.6% 1,200,939	50.007.041.441
895,460	1,616,198	447,362	1,625,088	1,435,917	946,421	518,811	1,001,515	706,299	984,246		784,711	275,461	615,372	876,182	720,295	1,555,742	2,373,399	310101
Buner	Charsadda	Chitral (Lower & Upper	D.I.Khan	Dir Lower	Dir Upper	Hangu	Haripur	Karak	Khyber	Kohistan	(Lower & Upper)	Kolai Pallas	Kurram	Lakki Marwat	Malakand	Mansehra	Mardan	M.1
S	9	7	∞	6	10	=	12	13	14		15	16	17	18	19	20	21	ć

7,593	1,271	21,345	3,789	8,123	11,548	1,959	856	2,702	3,376
4,543	84	12,771	2,267	4,860	606'9	1,172	512	1,617	2,019
40,381	6,762	113,523	20,152	43,202	61,416	10,421	4,557	14,374	17,955
30,286	564	85,143	15,114	32,401	46,062	7,816	3,417	10,781	13,466
379,635	63,575	1,067,270	189,453	406,154	577,393	97,971	42,837	135,136	168,803
227,781	38,145	640,362	113,672	243,692	346,436	58,782	25,702	81,081	101,282
106,298	17,801	298,836	53,047	113,724	161,670	27,432	11,994	37,838	47,265
410,614	63,473	1,154,360	204,913	439,296	624,507	105,965	42,768	134,919	168,533
410,614	68,763	115,4360	204,913	439,296	624,507	105,965	46,332	146,163	182,577
789,641	132,237	2,219,922	394,062	844,800	1,200,976	203,780	89,101	281,083	371,111
12	Ξ	62	19	66	52	4	16	33	50
49% 744,084.6	49.8% 126,642	47.44% 2,025,252	51% 386,484	50% 812,308	49.2% 1,136,309	49% 192,024	49.8% 85,331	48.6% 262,705	47.3%319,376
51% 774,455.4	50.2% 127,660	52.55% 2243,402	49% 371,327	50% 812,308	50.8% 1,173,262	51% 199,861.35	50.2% 86,017	51.4% 277,840	52.7% 355,838
1,518,540	254,303	4,269,079	757,810	1,624,616	2,309,570	391,885	171,349	540,546	675,215
Nowshera	Orakzai	Peshawar	Shangla	Swabi	Swat	Tank	Tor Ghar	North Waziristan	South Waziristan
23	24	25	56	27	28	29	30	31	32

(Source: Bureau of Statistics)

Note:

- Persons with Disability: The UN Convention on the rights of Persons with Disabilities (UNCRPD) states in its first article; PWDs includes and affective participation in society on an equal basis with others. It is recommended to find out if the respondent has any difficulty in performing certain activities (walking, seeing, hearing, cognition, self-care and communication) as well as the level of difficulty (no – no those who have long term physical, mental, intellectual or sensory impairment which in interaction with various barriers may hinder their full difficulty, yes – some difficulty, yes – a lot of difficulty or cannot do it at all).
- An Older Person is defined by the United Nation as a Person who is over sixty years of age. તં
- Part-1 Article -1 (UNCRC) A child means every human being below the age of 18 years. 3
- Age Cohort, 0-11 months, 0-5, 6-12, 13-17, 18-29, 30-39, 40-49, 50-59, 60-69, 70-79, and 80+. 4



4.1 Coordination Arrangements

4.1.1 Provincial Emergency Operation Center (PEOC)

Provincial Emergency Operation Centre (PEOC) is aimed to provide a platform and bridge for timely and accurate coordination between Provincial Line Departments and Districts Administration of Khyber Pakhtunkhwa in time of emergencies and calamities. It provides a well coordinated response mechanism in time of a disaster. PEOC remains functional 24/7 as its role includes but is not limited to dissemination of early warning, in time coordination and communication, analysis and dissemination of all information pertaining to pre during and post disaster, operational updates and situation reports.

Following are the activities covered by PEOC in case of emergencies in Khyber Pakhtunkhwa:

- To make all arrangements for receiving forecast data from Pakistan Meteorological Department (PMD) and its dissemination. The PEOC will be functional till the termination of Monsoon season / emergency.
- Shall receive and transmit flood / water level information thrice in flood season and on hourly basis during emergency.
- Shall act as a central coordination, command and control facility responsible for carrying out emergency preparedness and emergency management functions at a strategic level in an emergency situation and ensuring the continuity of response operations.

4.1.2 Remote Call Management System (1700)

Initially the Call Management System of **1700** was established to guide people against COVID-19 and to prevent potential spread of the pandemic. PDMA took this significant initiative by establishing a Remote Call Management System in Provincial Emergency Operation Center (PEOC) with tol free helpline **1700** on 13th April, 2020. Via this helpline, now the callers are being guided about various issues, while sitting at their homes. Representatives of relevant Government Departments on the aforementioned services remain connected with 1700 while sitting in their own offices or homes.

4.1.3 Flood Telemetry Stations for Early Warning

Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa under the project titled "Revamping of PEOC of PDMA" has successfully installed Flood Early Warning System in the upper catchment areas in collaboration with Irrigation Department. These Telemetry Stations are at following points:

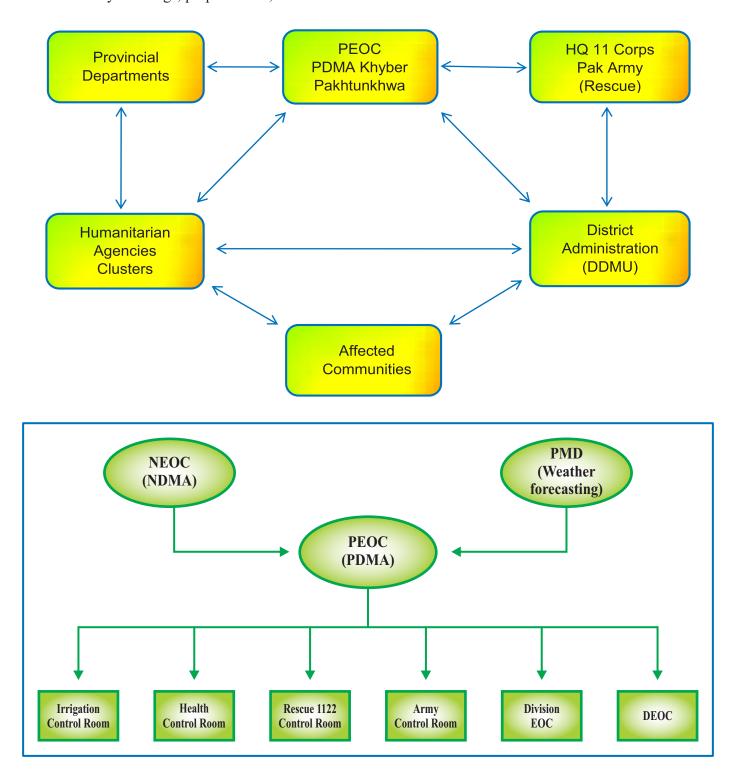
- 1. Kalpani Nullah at Malakand Mardan Road, Jalala Bridge Mardan.
- 2. Swat River at Chakdara Bridge Swat.
- 3. Swat River, Khawzakhela Bridge Swat.
- 4. Munda Headworks at Abazi Near Mohmand Agency.
- 5. Panjkora River at Jabalot Bridge Dir Lower.
- 6. Budni Nullah, Darmangi Bridge Peshawar.
- 7. Kabul River at Adezai Bridge, Shabqadar Road, Peshawar.

Under this system modern technology has been utilized to modernize the existing water gauges and rain gauges to get real time readings for Water Discharge, Water Velocity and Calculation of Rain in Millimeters. Its prime objective is to establish streams and rain gauges network in the hilly areas, linked with computer based model. It stores stream water level data and rain precipitation data. Moreover, this intelligent software analyzes the existing data with previous flash flood historical data. Upon reaching a dangerous level, it generates alert signals. These alert signals activate Provincial Emergency Operation Center (PEOC) and

subsequently the concerned district, Tehsil and Union Councils is alerted to prevent human losses in case of flood hazards.

4.1.4 Coordination with Line Departments

PDMA entails horizontal coordination with the relevant Provincial Line Departments on one side and Headquarters Engineers 11 Corps, Peshawar on the other side. PDMA also coordinates with the Humanitarian Community for joint efforts in prevention, mitigation, preparedness, rescue, relief, response and early recovery. On the other hand, vertical coordination occurs with Districts Administration for effective early warnings, preparedness, rescue and relief efforts at district level.



4.1.5 Automatic Daily Situation Report (DSR)

A Daily Situation Report (DSR) is issued from Provincial Emergency Operation Center (PEOC) twice a day. DSR is drafted on the basis of information received from respective Divisional Control Rooms of the Province. DSR is automated through Report Management System for maintaining updated Database and sharing of DSR with one click facility through email. DSR is shared with relevant departments and stakeholders for making informed decisions related to any untoward incidents / emergency situation.

4.1.6 Media & Awareness Campaigns by PDMA

PDMA, Khyber Pakhtunkhwa uses social media tools to reach wider audience in the digital world. Broachers and awareness message developed by Media Section for awareness rising are regularly shared on its Facebook and Twitter pages where huge number of following makes it easy for wider public outreach with zero financial implications. PDMA has adapted a strategy of engaging news analysts in briefings on disaster risk reduction and impacts of climate change on communities. It results in publication of various features, stories and reports related to disaster management and guidance to general public. It has reduced the expenditure of dedicated media campaigns.

PDMA, Khyber Pakhtunkhwa is using modern communication technologies for wider public information dissemination and management. For this purpose, the following social media accounts and groups have been formulated:

- Facebook Account
 (Close liaison with Directorate of Information and other Line Departments).
- 2. Twitter Account.

3. Skype Group.

4. Information Highway.

5. PDMA official Groups.

4.2 Preparedness

4.2.1 Specific Actions and Advisories for Monsoon 2023

Based on the lesson learnt from past few years monsoon and consultations held with stakeholders, PDMA Khyber Pakhtunkhwa initiated various measures for prevention, mitigation and better response for upcoming monsoon 2023. Advisories issued from PDMA to concerned stakeholders are at **Annexure-VII**. Some of the Initiatives / Advisories are highlighted as under:

- Local Government Department has been advised to carryout survey of bill boards and removes / replaces those which are in dilapidated conditions and may pose threat in case of high-speed winds.
- Local Government Department has been advised to chalk out vulnerable placed / population in major Urban Cities prone to Urban Flooding and take all necessary measures for minimizing the impacts of Urban Flooding, prepositioning of required equipments and resources, clearing of chowked drainage / sewaerage channels and removal of waste from the site.
- PESCO has been advised wire, ensure repair and maintenance of electricity wires / towers, cutting of trees reaching the high transmission wires and fixation of hanging wires in crowded streets / localities) to avoid any untoward event during monsoon season.
- Irrigation Department has been advised for timely construction and repair of flood protection structures, placement of funds / resources in all districts based on vulnerability assessment and adoption of easy M&R process for immediate reponse in case of any untoward event.
- Communication & Works (C&W) Department has been advised to carry out vulnerability assessment of communication channels and ensure adoption of easy M&R processes and availability of resources.

- Tourism Department has been advised to monitor the tourist spots and launch awareness compaign for tourists besides identifying safe evacuation routes for tourist.
- Real time monitoring of of major rivers through telemetry gauges installed at 07 points on major rivers of the province.
- Provision of free access to general public through Remote Call Management System 1700.

4.2.2 Identified Camp Sites in Khyber Pakhtunkhwa

The Camp Management Unit of Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa has already identified pre-disaster Camp Sites in all districts of the province wherein, the affected population will be moved in case of evacuation. List of Identified Camps Sites is at **Annexure-VIII**.

4.2.3 Availabe Stock Position at Humanitarian Response Facility (HRF), PDMA

To enhance the emergency and disaster response capacity of the Government and the Humanitarian Community. PDMA with collaboration of United Nation, World Food Programe developed a Centralized Humanitarian Response Facility (HRF) at Jalozai, District Nowshera. This Centralized HRF currently serves as Logistic Base for the Whole Province of Khyber Pakhtunkhwa in case of any disaster having warehousing capacity of 4000 MT for general storage items and 400 for climate controlled sensitive items.

ST	OCK POSITION AT HUMANIT	CARIAN RESPONSE	FACILITY (HRF) (15-05-2023)
S.No.	Items / Description	Quantity	Source
1	Family Size Tents	11,127	PDMA Procurement
2	Pillows	9,950	PDMA Procurement
3	Hygiene Kits	6,714	PDMA Procurement
4	Blankets	58,138	PDMA Procurement
5	Mattress	11,644	PDMA Procurement
6	Quilts	13,460	PDMA Procurement
7	Kitchen Sets	14,733	PDMA Procurement
8	Search Lights	18	PDMA Procurement
9	Dewatering Pump	28	PDMA Procurement
10	Plastic Sheet	2,634	PDMA Procurement
11	Life Saving Jackets	8	PDMA Procurement
12	Ropes	242	PDMA Procurement
13	Gas Cylender	202	PDMA Procurement
14	Prayer Mats	461	PDMA Procurement
15	Sand Bags Empty	16,400	PDMA Procurement
16	Buckets	9,598	PDMA Procurement / Donation
17	Tarpaulin Sheet	16,424	PDMA Procurement / Donation

18	Wheel Chairs	15	PDMA Procurement / Donation
19	Stretcher	20	PDMA Procurement / Donation
20	Mosquito Nets	5,375	PDMA Procurement / Donation
21	Jerry Canes	6,105	PDMA Procurement / Donation
22	Mats	30,251	Donation
23	Solar Lamp	5,268	Donation
24	Sanitory Kit	4,000	Donation
25	Pedestal Fans	110	Donation
26	Generator	125	Donation
27	Fax Machine	24	Donation
28	Water Purification Plant	3	Donation
29	Cane Milk	47	Donation
30	Ceiling Fans	128	Donation
31	Domex Cleaner	248	Donation
32	Sprayer Machine	1	Donation
33	Folding Bed	133	Donation
34	Hand Station Wash	3	Donation
35	Oil Burner / Stove	422	Donation
36	Plastic Lota	695	Donation
37	First Aid Box	364	Donation
38	Sleeping Bags	55	Donation
39	Towel	280	Donation
40	Sweaters	9,500	Donation
41	Cloth Sanitory Napkins	7,017	Donation
42	Baby Diapers	16,985	Donation
43	Soap (Antibacterial)	3,809	Donation
44	Soap (Fatty Acid)	4,000	Donation
45	Water Bags/Water Packs	1,397	Donation

4.2.4 Available Relief Stock in Districts of Khyber Pakhtunkhwa

Provincial Disaster Management Authority (PDMA), has completed Procurement of Non Food Items (NFIs) and dispatched relief items to all districts of Khyber Pakhtunkhwa based on vulnerability and demand of the respective districts.

		_		_		_						_				_
	Plastic Matts	200	1	ı	ı	ı	ı	I	ı	ı	ı	ı	ı	ı	ı	ı
	Tarpaulin Sheets	ı	ı	ı	78	ı	1	086	I	200	1,370	1,460	ı	I	ı	100
	Bed Sheet	ı	ı	ı		ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
	Mattresses / Dharis	ı	ı	180	13	ı	ı	I	26	200	1	70	26	18	ı	50
	Hammers	ı	ı		ı	ı	ı	I		I	ı	ı	ı	I	Karak 51 - - 134/51 31 108 - 21 3 43 - - - - 180 69 - - - - Khyber - 116 - 215 50 72 235 - 225 53 200 100 - - - - 40 - 50 - 100	1
WA	Plastic Mats	ı	ı	170	ı	145	2008	I	09	ı	51	1230	Hangu 120 2 - 1,740 98 - 170 - 230 - 118 - - - 108 - 26 - - 118 - - 108 -			
UNKH	Soap	274	ı	850	1	ı	1,000	ı	ı	ı	1	ı	ı	253	180	1
AKHT	Generator	3	ı	ı	ı	3	ı	∞	ı	4	5	ı	ı	I	ı	1
AVAILABLE WITH THE DISTRICTS OF KHYBER PAKHTUNKHWA	Blankets	619	ı	ı	1	133	ı	ı	3,227	ı	4,959	4,336	ı	48	ı	ı
F KHN	Pillow	06	ı	198	ı	ı	ı	ı	30	I	ı	ı	118	20	I	ı
TS OI	Stretchers		1	ı	ı	ı	ı	I	ı	ı	ı	ı	ı	ı	ı	ı
TIRIC	Hygiene Kit	107	ı	110	ı	09	359	260	38	188	ı	13	2	ı	ı	100
E DIS	Kitchen Sets	197	1	63	42	163	400	009	25	200	73	592	Hangu 120 2 - 1,740 98 - 170 - 230 - 58 2 - 118 - 1 253 58 - 108 - 1460 Hangu 120 2 - 1,740 98 - 170 - 233 38 - 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200		
	Cylinders	Blankets Pillow Stretchers Cooler / Jerry Cooler / Jerry Cooler / Jerry Stretchers Cooler / Jerry Search light Respectively Search light Search light						ı	ı	23	3	53				
LE WIT	Quilts	230	ı	ı	ı	ı	ı	I	634	ı	46	400	230	205	Karak 51 134/51 31 108 - 21 3 43 180 69	225
ILAB	Search light	89	ı	19	ı	26	ı	ı	ı	80	ı	ı	ı	ı	ı	ı
Is) AVA	Net Mosquito	237	ı	400	70	169	99	150	ı	200	215	160	170	34	108	235
IS (NF	Buckets	70	ı	ı	1	ı	400	1351	387	ı	78	770	ı	99	31	72
NON FOOD ITEMS (NFIS)	Cooler / Jerry Cans	105	I	45	1111	ı	2,200	11	280	126	1,234	ı	86	8//9	134/51	50
ON FO	Quits / Blankets	0	ı	155	31	100	2,352	490	634	300	5,005	ı	1,740	l	ı	215
Z	Plastic Sheets / Tarpaulin	257	1	09	ı	192	400	ı	ı	200	ı	ı	ı	ı	ı	ı
	Tables	ı	ı	ı	ı	7		ı	ı	ı	ı	ı	2	ı	ı	116
	Tents	201	ı	70	33	ı	731	10	187	125	399	460	120	79	51	ı
	Districts	Abbottabad	Bajaur	Bannu	Battagram	Buner	Charsadda	Chitral Lower	Chitral Upper	D.I.Khan	Dir Lower	Dir Upper	Hangu	Haripur	Karak	Khyber
	S.No.	_	7	3	4	5	9	7	∞	6	10	11	12	13	14	15

ı	ı	ı	ı	ı	ı	ı	ı			ı	ı	ı	ı	ı		ı	ı	ı	ı	200
	ı	ı	ı		ı	ı	ı			ı	ı		ı			ı	ı	ı	350	4,538
	15	1	ı		154		ı				ı		157	99	285	ı	ı	ı	ı	677
51	32	1,000	35		182	105	ı	227	58	ı	260	16	244			ı	42	ı	350	3,185
	ı	ı	ı	ı	ı	ı	ı		ı	ı	ı	ı	ı	ı	ı	ı	ı	ı		0
1	ı	1	502	ı	382	118	ı	123	99	ı	ı	ı	500	2	ı	ı	51	ı	ı	5,682
1	15	1,100	ı	ı	756	ı	ı			ı	ı		797				ı	ı	ı	5,225
	ı	1	ı	ı	4	ı	ı			3	ı	7	ı	ı		ı	ı	ı		32
1	ı	ı	ı		210	28	ı		188	25	ı	70	9,285	ı	1,356	ı	ı	ı	ı	24,484
98	78	•	ı		93	ı	ı	420	119	ı	ı		151	49			ı		450	1,902
ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	0
ı	131	200	42	15	ı	13	ı	ı	ı	10	ı	ı	ı	ı	ı	ı	ı	ı	350	1,998
58	ı	059	299	•	100	187	ı	54	120	ı	240	1	244	44	ı	ı	83	ı	350	5,124
ı	ı	80	6		43	136	ı	ı	ı	ı	ı	ı	125	16	19	ı	ı	I	ı	647
1	300	ı	ı	5	245	166	ı	55	124	ı	ı	99	1,143	ı	ı	ı	75	ı	450	4,619
ı	ı	ı	ı	•	ı	ı	ı	ı	ı	10	ı	1	ı	1	ı	ı	ı	ı	ı	203
240	3,150	5,000	989	50	190	ı	ı	ı	ı	50	300	ı	575	ı	95	ı	1	ı	190	12,630
1	ı	500	122	ı	120	93	ı		ı	150	ı	1	101	1	150	ı	ı	ı	ı	4,461
30	292		521	9	255	9	ı	20	154	50	220		136		375		150	1	350	6,004
326	300	ı	1,241	ı	245	ı	ı	150	124	ı	240		ı	112		ı	55	ı	450	14,265
1	ı	450	188	65	ı	ı	ı	43	ı	ı	ı		ı		ı	ı	99	ı	450	2,370
-	ı	ı	382		m		ı									1	ı	ı	ı	511
119	ı		ı	9	389	214	ı	380	122	10	270		740	109	253		57		ı	5,135
Kohat	Kohistan Lower	Kohistan Upper	Kolai Palas	Kurram	Lakki Marwat	Malakand	Mansehra	Mardan	Mohmand	Nowshera	Orakzai	Peshawar	Shangla	Swabi	Swat	Tank	Toorghar	North Waziristan	South Waziristan	Total
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	

4.2.5 Available Public Machinery in Districts of Khyber Pakhtunkhwa

Disaster Recovery											1					
Vehicles		•				•	•	•	•	•		·	•	•		•
Chain Dozer D-65	1	ı	1	'	1	1	•	<u> </u>	1	1	1	•	1	1	•	1
Dumpers	•	•	•	•	•	'	2	ı	•		5	•	•	'	•	•
Excavator	•	ı	•	•	•		15		10		7		3		•	1
Suzuki Dumpers	•	ı		'	•	13	ı	ı	•	ı	<u></u>		•	ı	ı	ı
Blade Tractor	•	ı	•	4			ı	ı		7	7	٠	4		•	
Double Cabin	•			4			ı	ı								
Water Rescue Vehicles		ı		-		ı	ı	ı	ı		-	ı	-	ı	ı	ı
Ropes (3x100 ft)	5	ı				ı	ı	ı		ı		10		ı	ı	ı
OBM 75 HP		ı	ı	ı		ı	ı	ı	ı	ı	П		ı	ı		ı
Rescue Vehicles		ı	ı	ı			ı	ı	ı	_	2	-	ı			
OBM 15HP		ı				ı	c.	ı		ı		0		ı		ı
Rescue Boats		ı					9	7	7	П	7					
Dewatering Pumps	1					6	ı	ı				4				3
Fire Vehicles	∞						ı	ı			7		m			4
Dozers	2	ı			_		2	2	_	_			7		ı	1
Tractors	20		10	7		∞	S		34	4	37					4
Trolleys Mini Tractor Trolley	12						ı	ı	16		18	ı	ı			
Trucks	12	ı					ı	ı		-	5				ı	ı
Fire Brigade	2	ı	ı	7			9		4	<u></u>	7	S	4		•	4
Ambulances	2	ı		7			9	7	23	∞	9	2	∞			17
Rescue Vehicles	1	ı		2		ı	ı	-		ı				ı	ı	ı
Shovel Tractor	2	ı	ı	ı	1	ı	ı	ı		ı	ı			ı	ı	ı
Tractor Trolley	2	ı	2	2	ı	∞	ı	ı		4	9	4	15	ı	ı	ı
Water Bozer	1	ı	ı	ı			ı	ı	1		1		4			
Recovery Vehicles	П					ı	ı			ı			1	ı		ı
Туре	Abbottabad	Bajaur	Bannu	Battagram	Buner	Charsadda	Chitral Lower	Chitral Upper	D.I.Khan	Dir Lower	Dir Upper	Hangu	Haripur	Karak	Khyber	Kohat
S.No.	1	7	3	4	5	9	7	∞	6	10	Ξ	12	13	14	15	16

						1	ı	ı		ı		ı			ı				-
ı	ı			ı		ı	ı										ı	ı	_
	ı			-			ı				4			_	ı		ı	ı	21
-	ı	-		2	ı	7	ı	ı		ı	ı	7	2	4	∞		ı	ı	09
1	ı		ı	ı	ı		ı	ı	ı	ı	ı	ı	,	ı	ı		ı	ı	20
ı	ı			ı	5	7	7		12		7	7			ı		ı	ı	37
1	ı			ı	ı		ı	ı	ı	ı	ı	ı		ı	ı		ı	ı	4
<u> </u>	ı		ı	ı	ı	7	-	ı	ı	ı		-	П		ı		ı		12
ı	ı			ı	ı		ı		ı		ı				ı		ı	ı	15
	ı			ı			4	ı	ı	ı	13	—	-		ı		ı	ı	21
ı		ı	ı	ı	ı	ı	ı	ı	ı	ı		_		3	-		ı	ı	=
ı	ı			ı	ı	٠	ı	ı	33	ı		ı	-		ı		ı	ı	∞
1	-			ı		٠	7	ı	36	ı	Ξ	ı	7	•	ı		ı	1	11
1	-			S	ı	٠	Ξ	ı	21	ı	14	ı	n		4	7	7	1	80
	ı			ı	ı	10	13	ı	5	ı	ı	ı	7		ı		ı	1	49
1	ı		7	ı			ı		ı		ı			n	7		æ	ı	29
1	ı		_	9	∞		7		16		∞		10	S	æ	7	ı	1	197
•	ı	ı	n	4	10	ı		ı	ı	ı	4	4	3	3	ı		ı	,	79
ı	ı		co	ı			ı		ε		ı		7				ı		27
2	ı		7	S	∞				∞		ı	4		∞	7		ı	ı	82
	ı	•	9	14	15	7	32	ı	23	ı	ı	Π	4	1	4	4	I	ı	205
	ı	ı	ı	ı	ı	7	S	ı	-	ı	2	ı	-		ı	ı			16
	ı		ı	ı	ı	ı	ı	ı	ı	ı	ı	ı		ı	ı	ı	ı		ĸ
0	ı	ı	ı	ı	ı	12		ı	ı	ı	ı	ı	10	7	ı	ı	n		11
	ı		ı	ı	ı	7	1		ı		ı			7	ı	ı	ı	ı	41
ı	ı		ı	ı	ı	ı	1		ı		ı		,	•	ı	ı	ı	ı	7
Kohistan Lower	Kohistan Upper	Kolai Palis	Kuram	Lakki Marwat	Malakand	Mansehra	Mardan	Mohmand	Nowshera	Orakzai	Peshawar	Shangla	Swabi	Swat	Tank	Torghar	South Waziristan	North Wziristan	TOTAL
17	18	19	70	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	

4.2.6 Coordination with Pakistan Army for Monsoon 2023

Strengthening of Sister Organization is essential part of preparedness and subsequent effective response to any disaster. PDMA remains fully coordinated with 11 Corps for joint preparation for Monsoon 2023.

Hazard	Area	. Ioint Doon	onse Functions	Respon	sibility	Resources	
паzаги	Affected	Joint Kesp	onse Functions	Military	Civil	Resources	
			Coordination & Monitoring	FC KP (N), FC KP (S), 102 Bde, Gar HQ Nsr, EC Rsc	PDMA, Civil Administration, PMD, FFC	Weather Radars, DDMU	
		Early	Info passage to threatened Population	Respective Bdes / Wings	Civil Administration	Print, Social, Electronic Media	
URBAN FLOODING (Suspension of Civic Services, Disease Outbreak, Area Evacuated for Certain Time)	Peshawar, Mardan,	Warning	Forward Placement of tps	- Do -	-		
	Mingora, D.I.Khan, Tank, Nowshera		Prepositioning of Relief Goods	-	District PDMA Ctes	PDMA Warehouse Jalozai, Nowshera	
	rvowshera	Rescue / Evacuation	Rescue through Available Resources Flood Fighting Equipments (De Watering)	Respective Bdes / Wings	Rescue 1122 / PDMA	Army Relief Equipments, Rescue 1122 Units	
		Relief Provision	Medical, Food & Shelter	Respective Bdes / Wings	Rescue 1122, District PDMA ctes & Adm	Public Buildings	
	Swat and	Early Warning	Coordination & Monitoring	FC KP (N)	PDMA, Civil Administration, PMD, FFC, Irrigaion Department	Weather Radars, Irrigation Departments Gauges	
			Info Passage to Threatened Population	Respective Bdes / Wings	Civil Administration	Print, Social, Electronic Media	
RIVERINE FLOODING (Water Borne Diseases,	Panjkora (due to silting up of River Beds),		Forward Placement of tps	- Do -	-		
Community Infrastructure Disruption,	Charsadda, Nowshehra (Weak		Prepositioning of Relief Goods	-	District PDMA Ctes	PDMA Warehouses, DDMUs	
Suspension of Civic Services)	Bunds), D.I.Khan River Indus	Rescue / Evacuation	Rescue through Aval Resources Helli Service, Evacuation and Coordination	Respective Bdes / Wings	Rescue 1122 / PDMA, NHA	Army Avn Sp, Fmn Arngs, PDMA & NHA Maint Units	
		Relief	Medical, Food & Shelter	Respective Bdes / Wings	Rescue 1122, District PDMA ctes & Administration	DDMUs	

GLOF (Early Warning difficult, Severance of	Chitral, Swat Upper, Dir Upper	Ealry	Forward Placement of tps	Respective Bdes / Wings	PDMA, Civil Adm, PMD, FFC	Weather Radars, Flood Modelling by civil departmens
Community Infrastructure,		Warning Rescue / Evacuation	Prepositioning of Relief Goods	- Do -	Civil Administration	Print, Social, Electronic Media
Landslides, Suspension of Civic Services)			Rescue through Aval Resources Helli Services, Evacuation and Coordination	-	-	
FLASH FLOODS	7.38 M Upper parts of Swat, Shangla, Dir Upper, Bajaur, Chitral, D.I.Khan, Tank, Koh-e- Suleman		Med, Food, Shelter, Opening of Roads through Civil Departments	Respective Bdes / Wings	DDMU	PDMA/ DDMU Contracted Vehicles Contractors
(Early Waring difficult Severance of Community infrastructure, Landslides, suspension of Civic Services) More emphasis on		Relief	Coordination / Monitoring	Respective Bdes / Wings	Rescue 1122 / PDMA	Army Avn Sp, District Administrati on Machinery / Setups, NHA Maint Units for Roads
Mitigation / REL		Early Warning	Info passage to Threatened population Tourist Inflow	FC KP (N)	Rescue 1122, DDMU, Civil Administration, NHA	Army Plt Equipments, PDMA Op and Public Machinery
FLASH FLOODS	7.38 M		Tps Depl on need basis	Respective Bdes / Wings	PDMA, Civil Administration, PMD, FFC, Irrigation Department	Weather Radars, Irrigation Department Guages, FFC Forecast
(Early Warning Difficult Severance of	Upper parts of Swat, Shangla, Dir	Ealry Warning Rescue /	Pre / Post of Relief Goods	- Do -	Civil Administration	Electronic Media, Local Adm Arngs
Comm infra, Landslides, suspension of civic svcs) More Emphasis on Mitigation / REL	Upper, Bajaur, Chitral, D.I.Khan,Tan k, Koh-e-	Evacuation	Rescue through Dedicated Flood Relief Equipments, trg	-	-	-
	Suleman		Medicine, Food & Shelter	Respective Bdes / Wings	District PDMA Ctes	Warehouses in all Districts
		Relief		Respective Bdes / Wings	Rescue 1122 / PDMA	Boats, Dewatering Pumps

	Details of Items Handed Over to Pak Army 11 Corps (2019-2021)									
S.No.	Items	Quantity	Remarks							
1	Fiber Glass Boats with 30 HP OBM	24	2019-20							
2	Life Saving Jackets	803								
3	Boat Paddles 1,119									
4	Buoy	107	2021-22							
5	Bailer 107		2021-22							
6	Boat Hooks	107								
7	Life Rings	103								
While the following Items are Under Procurement as per Pakistan Army demand and these Items will be Delievered in 1st Week of July 2023										
1	Inflatable Boats	5	0							
2	OBMs (30 HP)	17								
3	Search Lights	20	07							

4.2.7 Rescue Equipments with Civil Defense

In order to elevate the level of preparedness and bring synergies in efforts for improved and effective response to Monsoon Season, PDMA has strengthened Civil Defense by providing the following necessary Rescue Equipments during the past three years.

Items	Quantity	Items	Quantity
Pick Axes	666	Life Jackets	555
Hand Shovels	694	Hand Carts	28
Gloves (leather)	1,275	Saws	33
Fire Buckets	630	First Aid Box	47
Helmet	1,275	Folding Stretcher	4
Electric Search Light	630	Torch with Solar	50
Manila Rope	255	Blankets	20
Rubber Tube	630	Hygiene Kits	196

The District Wise Details of Available Diver's Team in Khyber Pakhtunkhwa is at Annexure-IX.

The District Wise Contacts of the Volunteers Heads (Chief Wardans) is at Annexure-X.

4.2.8 Remote Sensing Services of the Space and Upper Atmospheric Reaserch Commission (SUPARCO)

a. Preparedness Activities

- 1) Extraction of the pre-monsoon layer of all major rivers and water bodies 30th June, 2023.
- 2) Preparation / Updation of the spatial data sets i.e. Land cover, Crop, Road, Settlements etc for rapid mapping and damage assessment 30th April, 2023.

- 3) Preparation of the pre-monsoon Satellite Imagery (Rivers and Hot spots) 30th April, 2023.
- 4) Satellite programming for rivers and dams monitoring June 30, 2023

b. Technical Support during Monsoon

- 1) Near Real time Monitoring of Rivers and Dams.
- 2) Near Real time Monitoring of Hot Spots (Your inputs is required).
- 3) Rapid Inundation Mapping.
- 4) Rapid Damage Assessment (Crop and Infrastructure).
- 5) Detail Damage Assessment (Crop and Infrastructure).
- 6) Monitoring of Rehabilitation & Reconstruction Work in Flood Affected Areas.

Besides, the Potential Glacial Lake Outburst Floods (GLOF's) valleys has been shared with SUPARCO and asked for the Aerial Monitoring of Lake Formation and Expansion from the Settelite Flatforms.

Note: Near Real Time Maps and Imageries of the SUPARCO will be available on Disaster

Watch a Web Portal which can be accessed http://disasterwatch.sgs-suparco.gov.pk/

4.2.9 Tourism Department

- 1) Tourist Facilitation Hub (TFH) will act as Control Room in Coordination with Local Area Athorities / PDMA and Districts Administration.
- 2) Khyber Pakhtunkhwa First ever Tourism 24/7 Helpline 1422 will be Operational to Facilitate Tourists.
- 3) The Tourist Helpline will povide Tourists a direct access and seeks assistance, thereby reducing redundancy, operational overheads.
- 4) Provide Centralized Help-desk for Guidance / Information to Tourists visiting the Area on Monsoon Rains intensity and conditions of road ahead.
- 5) Set up a single access point to reply to the Tourist queries received via 1422.
- 6) The requests received via Helpline will be communicated to Llocal Area Authority / District / Tehsil Administration and PDMA on same day for redressal.
- 7) The Helpline will be linked with the Complaint Redressal and Information Dissemination Cell of Local Area Authorities and District / Tehsil Administration and PDMA.
- 8) This Cell will keep a real time liaison whereas the Helpline will cater to all the activities regarding Traffic Management, Weather Report or any other issue by disseminating information to Local Area Authorities and District Administration and PDMA for necessary action.
- 9) Collaboration with Pakistan Meteorological Department for Live Weather Updates through Helpline.
- 10) Tourist / Visitor Update on daily basis via Helpline especially during Monsoon Season.
- 11) Coordination with Local Area Authorities / PDMA and District / Tehsil Administration.

a. Coordination with Local Actors

- 1) Tourism Department will be in coordination with Local Authorities to monitor the situation.
- 2) Effective Coordination with Rescue 1122, District Administration, Tehsil Municipal Administration, Police, Irrigation, District Health Officer / Health Facilities for any Emergency.
- 3) Helpline 1422 will be Available 24/7 to Facilitate Tourists.

b. Monitoring of Flood and Water Level

- 1) Local Authorities will be engaged to deploy available machinery for road clearance.
- 2) Weather Advisory will be issued on daily basis on Website and App.
- 3) All Relevant Sstaff:
 - i. To remain in field 24/7 to address any untoward incident and
 - ii. To extend support for ensuring in time provision of assistance for taking the affected Tourists and their Vehicles to near by First Aid, Dispensaries, Hospital and Workshop as the case may be.

c. First Aid for Tourists via Local Area Authorities and Tehsil Municipal Administrations

- 1) Each area will be supervised by Monitoring Team comprising of District / Tehsil Admin official and Local Area Authority's Officials.
- 2) The overall floods Rescue Operation will be managed by concerned Local Area Authority in Coordination with District / Tehsil Administration.

d. Rescue, Relief & First Aid / Health Cover Plan for Tourists and their Vehicles

Rescue, Relief Stations established by Tourism Department for provision of support staff and First Aid at each Tourist Spot:

- 1) Kewai, Manshera.
- 2) Nathiagali Abbottabad.
- 3) Thandiani, Abbottabad.
- 4) Bumburat, Chitral Lower.
- 5) Kumrat, Dir Upper.
- 6) Gabeen Jabba, Swat.

e. Tourist Facilitation Centers

Tourist Facilitation Centres (TFCs) / Rest Areas of all Tourist Spots should be functional including provision of help support to the Tourists and their families etc. Information Centers / TFC already established:

- 1) Chitral.
- 2) Swat.
- 3) Dir.
- 4) Abbottabad.
- 5) Donga Gali.

f. Management via Tourism Police

Tourism Police will be Responsible for:

1) Facilitation of Tourists through information about tourism facilities including help support from flood besides First Aid / Basic hHealth Units / Hospitals in their areas and provision of legal assistance in case of any mishap.

- 2) Watch and ward in tourist destination to curb activities of Touts, Anti- Social Elements and Fraudsters and maintenance of their record.
- 3) Acting as first responders to incidents and handing over the delinquent to the Local Police for legal action
- 4) Management and Regularization of the Traffic in Tourist destinations keeping in view the Monsoon Season.

4.2.10 Communication & Works (C&W) Department

Coomunication & Works (C&W) Department, Khyber Pakhtunkhwa is looking after the life line critical communication infrastructure in the province. The department has chalked out the Monsoon Contingency Plans of the vulnerable divisions included Buner, Shangla, Swat, Dir (Lower & Upper), Chitral (Lower & Upper), Charsadda, Nowshera, D.I.Khan, Mansehra, Battagram, Kohistan, Bajaur, Mohmand, Khyber, Orakzai, Kurram, North Waziristan and South Waziristan. The Plan covered the vulnerable sites of roads & bridges, frequency of damages, significance / criticality dependent population / traffic, impact if blocked, type and degree of threat i.e., flash flood / landslide etc and the resources available. Details Monsoon Conteingency Plan for 2023 of the C&W Division is at **Annexure-XI**.

4.2.11 Irrigation Department

Irrigation Department, Khyber Pakhtunkhwa is looking after the information of river flows, early warning system through flood telemetery the construction and repair of the flood protection works. Monsoon Conteingency Plan for 2023 of the Irrigation Department is at **Annexure-XII** which covers the aspects like the rivers, khawars and nullahs in the respective districts and Irrigation divisions, the vulnerable sections of the aforementioned Waterways having length in km or feets, the vulnerability villages and settlements including at risk Union Councils. Furthermore, the Plan has also mentioned the numbers and type of flood protection structures on against the mentioned Waterways.

4.2.12 National Highway Authority (NHA) (Flood Response Strategy for Monsoon 2023)

- Pre-Flood preparedness activities will commence with formulation of Flood Emergency Cells in Head Office, Regional Offices and Maintenance Units, in the last week of May 2023. Focal Persons in each cell will be nominated and their contact list, phone numbers, fax numbers will be circulated.
- For year 2023, Flood Emergency Cells will be established in all regional offices before 1st week of May 2023 where Road Asset Management Division (RAMD), NHA will act as a liaison with all the concerned departments / organizations / agencies to counter such disaster.
- RAMD, NHA along with Regional setup will work round the clock (24/7) to actively pursue the damages, remains fully involved in execution of prompt restoration works.
- Regional Office, Flood Emergency Cell will perform the following functions:
- Contractors are put on red alert to meet any eventuality.
- Mobilization of contractors from a pool of emergency contractors on as and when required basis.
- Availability of adequate machinery / manpower / material to cope with any emergency situation with sufficient financial resources.
- Submission of Daily Occurrence Report to Flood Emergency Cell in NHA Head Office.

Detail Monsoon Contingency Plan for 2023 of the National Highway Authority for Khyber Pakhtunkhwa is at **Annexure-XIII**

4.2.13 Pakhtunkhwa Highways Authority (PKHA)

Pakhtunkhwa Highways Authority (PKHA) is custodian of 52 Numbers Provincial Highways having a total length of 3431.30 kms. Strategy of this Authority comprises of Pre Flood and During Flood Stages:

a. Stage-1 (Pre Flood Plan)

- Field staff has been sensitized to visit the roads, bridges and other structures likely to be damaged by the flood in the coming Monsoon season.
- The experience and lesson learnt during the worst flood of 2010 and 2022 will be utilized for effective planning against the natural calamity.
- Optimizing the output and minimizing losses to the road infrastructures.
- Identification of vulnerable structures which are on the charge of PKHA.
- The Machinery available with the Maintenance Contractors deployed at various sites will be utilized on need basis.
- For remote areas, the required machinery will be hired on rental basis from the market.
- The available M&R Contractors would be tasked to undertake the emergency work under their existing contracts.
- A well-defined flood Control Cell has been established with Deputy Director (H/Q) & Deputy Director (Procurement) PKHA as the Focal Person and Director (Maintenance) as the overall Incharge.

b. Stage-2 (During Flood Plan)

Pakhtunkhwa Highways Authority (PKHA) is committed to divert all its emergency resources in the event of Flood Emergency and Endeavour to come up to the expectations as it came during the super Flood 2010 and 2022. A well-defined mechanism showing the names and contact numbers of the Officer In-charge, Contractor and Alternative Routes for the vulnerable points have been established. The Control Room in PKHA will play a pivotal role for the liaison with the Field Officers for implementation and Provincial Control Room for taking necessary direction and sharing of information for the quick response and relief.

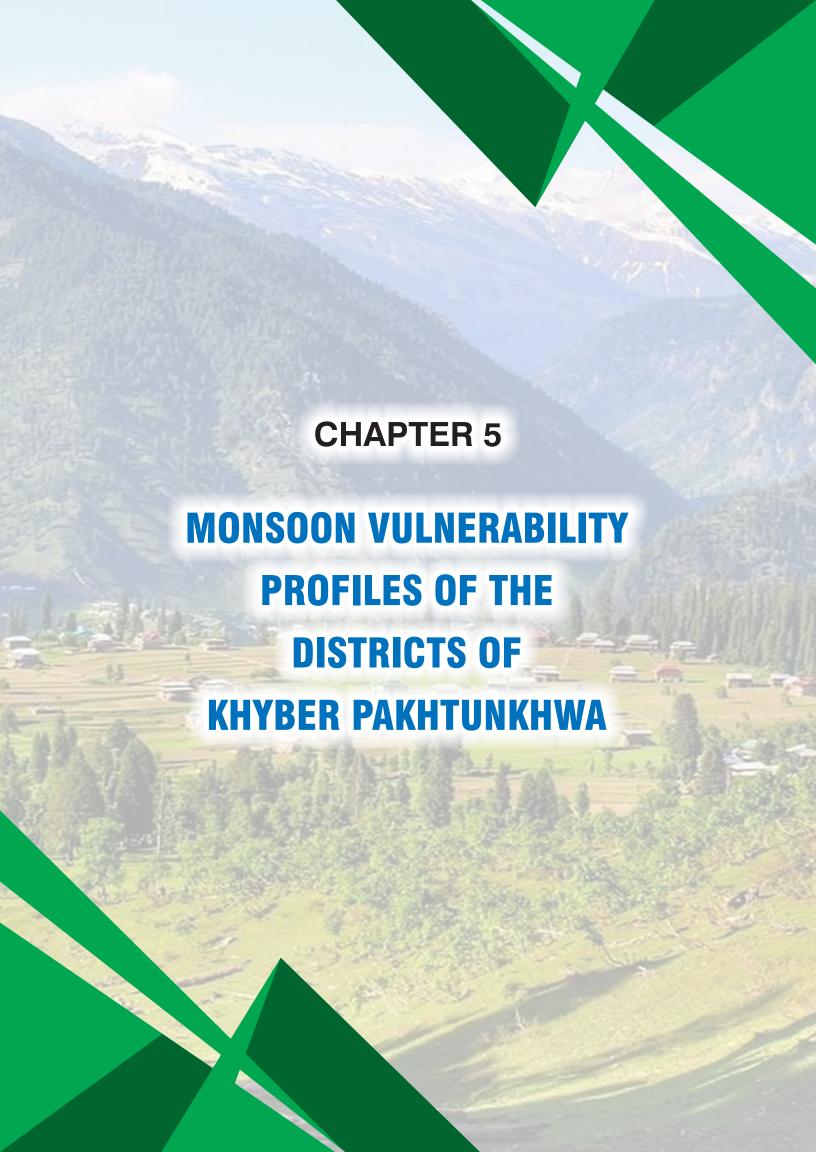
The Monsoon Contingency Plan 2023 of the Pakhtunkhwa Highways Authority is at Annexure-XIV.

4.3 Fund Position in Districts of Khyber Pakhtunkhwa

Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa has placed requisite funds at the disposal of all Deputy Commissioners of the districts for quick payment of compensation in case of any untoward emergency during the Monsoon season. On the other hand, different Line Departments provide funds for clearance of roads and communication channels in case of disaster.

FUND POSITION IN DISTRICTS OF KHYBER PAKHTUNKHWA (Tell 31-05-2023)

S.No.	District	Available Balance in (Million)	S.No.	District	Available Balance In (Million)
1	Abbottabad	9.49	19	Kolai Pallas	30.663759
2	Bajaur	9.14	20	Kurram	1.96446
3	Bannu	3.39	21	Lakki Marwat	16.999216
4	Battagram	19.90	22	Malakand	29.265807
5	Buner	1.84	23	Mansehra	9.94675
6	Charsadda	67.30	24	Mardan	8.789481
7	Chitral Lower	1.35	25	Mohmand	0.5
8	Chitral Upper	20.15	26	Nowshera	15.0116
9	D.I.Khan	44.31	27	Orakzai	20.214598
10	Dir Lower	26.82	28	Peshawar	43.677534
11	Dir Upper	0.03	29	Shangla	18.930119
12	Hangu	3.20	30	Swabi	27.570125
13	Haripur	17.96	31	Swat	74.830513
14	Karak	21.96	32	Tank	149.366505
15	Khyber	14.60	33	Torghar	19.670909
16	Kohat	1.70	34	North Waziristan	0.772
17	Kohistan Lower	22.53	35	South Waziristan	0
18	Kohistan Upper	117.65	33	South waziristan	U
				TOTAL	871.49



5.1 Monsoon Vulnerabality Profiles of the Districts of Khyber Pakhtunkhwa

This Chapter is giving an account of the major nullahs, streams and rivers in each district of Khyber Pakhtunkhwa which are affecting different Union / Villages or Neibourhood Councils. The vulnerable population has also been mentioned against the mentioned UC / VC or NC. The data has been shared but he respective District Disaster Management Units (DDMUs) as part of the District Contengency Plan 2023.

		DISTRICTS PROFILE OF KHYBE	R PAKHTUNKHWA	
S.No.	District	Major Rivers/Null'as/ Khwarh River	Vulnerable UC/VC/NC	Vulnerable Population
1	Abbottabad	River Haro/Daur	Beerote Bassian	33,227
			TAJWAL Nathia Gali	41,368
			Thandiani, Pattan &	40,849
			Kukmong Abbottabad	
			Toheedabad (including	24,518
			kundla & Morti)	
			Dhamtour	26,866
			Sherwan & Kothiala	18,207
2	Bajaur	Nawagai to Mandal Khwarh:It ranges from Nawagai via Loesam to Mandal and Maram Ghundai area of Tehsil Khar and finally meet with Mamund Khwarh near Khar bridge.	Khar	247,510
		Mamund Khwarh: it ranges from the hilly area and springs of Salarzai especially the Gabbar Spring and passes through Pashat to Raghagana and Jar and join the Khar river at Jar area of Tehsil Khar.	Salarzai	268,517
		Jar to Munda Khwarh: All the above rivers after joining at Jar flow to Munda and meet with the river Samarbagh Munda District Dir Lower.	Utmankhel	107,356
		Some small streams flow at Arang area	Mamund	311,873
		of Tehsil Utmankhel and Tehsil Barang.	Nawagai	79,002
			Barang	76,558
			Chamarkand	2,868
3	Bannu	River Kuram, River Tochi, Nullah	Zeraki Perba Khel	23,478
		Kashu & Nullah Dowah	Bizen Khel	61,437
			Aral Hathi Khel	30,968
			Domel	23,939
			Ghori Wala	25,164
			Baka Khel	32,496
			Takhti Khel	26,261
			Nurar	21,931
			Haved	33,708
			Amandi Slima Sikandar Khel	19,983 17,965
			Jandu Khel	20,155
			Shamsi Khel	28,653
			Shamsi Kilei	20,033

			D 41 1771	10.244
			Bazar Ahmad Khan	18,344
			Koti Sadat	17,955
			Kot Qalander	30,741
			Fatima Khel	27,799
			Shahbaz Azmat Khel	19,737
			Asperka Waziran	39,588
4	D (1	Y 1 ' Y 11' YZ1	Khander Khan Khel	29,778
4	Battagram	Indus river, Nandhiar Khwar	Thakot	17,557
			Trand	14,402
			Kuzabanda	10,928
			Sakargah	11,667
			Rashang	5,551
			Pashto	10,291
			Shamlai	13,731
			Rajdhari	5,183
			Battamori Hadaal Badalaal	9,150
			Hothal Bathkol	19,060
			Jambera Banna	14,074
			12,141	
			Biari	9,097
	D	Daniel Wherest (Main Streem) in	Bateela	10,383
5	Buner	Barandu Khwarh (Main Stream) in District	Elam Hills UC Malakpur	34,472
		District	Rega village, UC Rega	29,278
			pirbaba bazar UC Pacha	31,090
			UC Batara river	30,689
6	Charsadda	River Kabul, River Swat and Jindi	Karakarh UC Abakhel	74,563
O	Charsadda	Nullah	Agra Rashakai	17,274 23,256
		Traitai	Hajizai	23,256
			Hassanzai	13,165
			Daulat Pora	
			Battagram	12,191 23,835
			Kangra	10,311
			Panjpao	24,677
			Nisatta	35,677
			Dheri Zardad	19,136
			Mirza Dher	28,071
			Tarnab	41,024
			Abazai	14,182
			Katozai	17,775
			MC-I, II, III, IV Charsadda	114,565
			Rajjar -I	8,653
			Utmanzai	30,747
			Turangzai	35,490
			Sherpao	21,707
			Hisara Yaseenzai	16,286
			Umerzai	35,240
			UIIICIZAI	33,240

7	Chitral	Chitral River, Lotkoh River, Bumborate	Ayun	7,910
/	Lower	Nalla, Shoghore Nalla, Golain Nalla,	Bumborate VC	7,441
	201101	Drosh Gol, Chitral Gol Nalla, Shali Gol,	Rumboor VC	3,431
		Karimabad Nalla, Arkari Nalla, Biori	Birir	3,821
		Nalla	Madaklasht	3,635
			Kalas VC	6,364
			Tar VC	4,802
			Pursad VC	3,983
			jingerate VC	3,635
			Sweer VC	5,972
			Ursoon VC	4,716
			Arandu Gol VC	4,997
			Damel VC	6,298
			Susum VC	2,810
			Beshgram VC	3,598
			Shoghore VC	3,344
			Arkari VC	4,600
			Begusht VC	4,059
			Orghioch VC	2,805
			Seen VC	4,591
			Jughoor VC	10,202
			Golain VC	3,197
			Broze VC	4,068
			Chumurkon VC	7,645
			Ayun-2	5,579
8	Chitral	River Yarkhun, River Laspur, River	VC Khot Bala	4,185
O	Upper	Torkhow Mulkhow	VC Khot Payeen	4,223
	Сррсі	TOTALIOW MAINTOW	VC Washich	5,757
			VC Washien VC Sahat	3,609
			VC Sanat VC Khushum	4,412
			VC Gahat Warijun	4,230
			Rech	4,595
			VC Nogram	4,452
			VC Nogram VC Riri Owir	3,354
			VC Barum Owir	3,162
			VC Pakhturi Owir	3,566
			VC Takhturi Own VC Gohkir	6,067
			VC Terich	4,797
			VC Madak	6,025
			VC Terich Payeen	4,223
			VC Tericii Payeeii VC Werkop	3,901
			VC Welkop VC Melp	6,203
			VC Merp VC Shagram	5,681
			VC Snagrani VC Drunkagh	3,495
			VC Drunkagn VC Morder	3,543
			VC Morder VC Sandragh	
				3,044
			VC Kosht	5,968

			VC Dealess	1706
			VC Reshun	4,786
			VC Charun	4,998
			VC Booni-1	3,299
			VC Booni-II	5,255
			VC Awi	1,417
			VC Sonoghur	2,450
			VC Raman	5,843
			VC Laspur	4,371
			VC Harchin	3,299
			VC Mastuj VC Parwak	3,873
				3,410
			VC Parkusap VC Khuzh	4,154
				5,181
			VC Brep VC Miragram-II	4,906 6,817
			VC Ivinagram-n	4,632
			VC Broghul	3,906
9	D.I.Khan	River Indus, Chashma Right Bank Canal	Gandi Umer Khan	27,715
9	D.I.Kiiaii	River maus, Chashina Right Bank Canar	Bilot Shareef	30,266
			Chehkan	32,538
			Dhap Shumali	38,587
			Kulachi	15,312
			Mandhran Saidan	49,115
			Katgarh	28,731
			Paroa	39,881
			Maddi	23,963
			Looni	26,414
			Raghasar	3,472
10	Dir Lower	River Panjkora, River Swat, Rodh	Shalfalam	28,022
		Khwar, Maidan Khwar, Shamshi Khan	Khal	34,748
		Khwar	Rabat	40,009
			Munjai	40,614
			koto	37,351
			Balambat	40,146
			Timergara	40,373
			Chakdara	40,309
			Badwan	40,335
			Tawda China	2,011
			Darangal	35,041
			Miskini	39,117
11	Dir Upper	Barawal River, Dir River, Usheray	Dir Urban	44,165
		River, Kohistan River, Gwaldai River	Qulandi	34,116
		And Major Panjkor River.	Palam	32,457
			Thall	25,353
			Doag Dara	32,291
			Kalkot	40,896
			Sahibabad	43,470

			Gawaldai	29,244
			Akhagram	34,728
			SHahikot	32,648
12	Hangu	Shahoo Khwar, Irrigation Channel,	Khan Bari	14,400
		Raisan khwar, Khanki Toyay, Kotki	Raisan	21,674
		Khwar, Sangroba Nullah, Police a Igada,	Ganjano Kallay	16,400
		Custom Algada, Starra Algada, Kake	Kach	20,000
		Algada.	Kotki	12,177
			U.C Thall Urban	6,000
			U.C Thall Rural	7,300
			Doaba	16,458
13	Haripur	Indus River Tarbela, Haro River	Darwesh	18,995
		Khanpur, Sarai Saleh Dour, Ali Khan	Ali Khan	15,720
		Dour, Darwesh Soks, Shah Maqsood Dour, Kot Najib Ullah Soka, Gulo Bandi	Sarai Saleh	25,102
	Soka and Dehenda Soka	Shah Maqsood	16,540	
	Soka and Benefida Soka	KotNajibullah	38,225	
			Khanpur	23,060
			Hattar	18,106
1.4	***		Dehenda	16,198
14	Karak	No river is situated in the area. After	Ghuandi Mir Khan Khel	13,981
		rains flash floods arise in hilly terrains moving through local stream /	Paloosa sar	10,881
		Algadda.In Karak, flash floods streams	Shanawa Gudi Khel	14,205
		include Balenzeen Algada , Tarkha	Mitha Khel Essak Chounter	16,000 12,650
		Algada, Khawaz Algada, Zebi Algada. In Tehsil T/Nasrati there as Lawagher Algada, Landiwaga, Machaki and Shanawa Gudi Khel and other smaller streams of flash floods. In Tehsil Banda Daud shah, floods plains include Gurguri to Sanda Khurram flood plains, Shakardar plains and Momi Khel to Mansooghar.		
15	Khyber	Hot Summer Normal Winter	Landikotal Sub Division i.Sultan Khel, ii.Piro Khel iii.Sado Khel iv.Zargaran v.Nadir Khan Killi, vi.Khoga Khel	20,000
			Jamrud Sub Division i.Ali Masjid, ii.Qadam, iii.Kata Kushta ivJabba, v.Kapar Tangi vi.Rekali	35,000
			Bara Sub Division i.Baz Ghara Khwar, ii.Shinko khwar, iii.Pakaro Khwar, iv.Bar Qambar Khel area	40,000
16	Kohat	Khushalghar (River Sind) and Rehman	Khushalgarh	26,160
		Abad River, Nullah Aurakzai, Usterzai,	Shakardara	13,672
		Chennah and Sheikhan	Hafizabad	58,947

			T	50.526
			Jerma	58,526
			Nusrat Khel	22,877
			Bahadar Kot	47,468
			Darmalak	6,798
			Shahpur	34,555
			Sudal	3,513
			Usterzai	23,478
			Togh Bala	29,166
17	Kolai Pallas	Mosha Nalla, .Kunsher Nalla, Kolai	Peach Bela	31,914
		Nalla, Sheryal Nalla, BattairaNalla,	Sharaid	21,365
	Madakhel Nalla, Sharakot Nalla, Shahi	Kuz Paro	26,369	
		Nalla, Ladi Nalla, Landy Nalla, Dhano	Sheryal	18,094
		Nalla, Chor Nalla, Kundal Nalla, Dewan	Kolai	15,421
		Nalla	Kunsher	16,373
			Khota Kot	15,679
			Madakhail abad	20,378
			Shalkhanabad	31,705
			Battaira	18,000
			Bar Sheryal	20,859
			Sharakot	20,319
			Haran	20,319
18	Vahistan	Indus River, Dubair Khwarh, Keyal		
18	Kohistan Lower	Khwarh.	Keyal	3,000
	Lower		Dubair	4,150
			Chawadara	5,400
			shetan Parri	1,000
			Glozbanda	2,300
			Dachi	2,755
			Dag	2,100
			Keru	2,500
			Bankad	3,200
19	Kohistan	Indus River	Bariyar	8,454
	Upper		Bar Jalkot	4,229
			Goshali	4,241
			Komila	2,155
			Dassu	4,843
			Teyal	3,186
			Chuchang	5,057
			Uchar	6,133
			Kuz jalkot	6,623
			Churto	8,055
			Sasaak	3,090
			Pashot Jalkot	6,399
			Qaiser Dadair	5,061
			Gujar Banda	6,106
			Gabar Sair	5,904
			Royi Baik	13,291
			-	
			Lohi	5,897

		junction of the number of small	Kurram	
20	Kurram	The Kuram river takes its origin it's the	Shingak Areas Upper	4,000
			Nakhto	2,739
			Meer Shahi	3,794
			Gabrial Molakhel	5,641
			Barigo	6,192
			Ashpidar Maidan	5,620
			Shadum Khel Gabriyal	4,009
			Dansh	3,303
			Dansh	3,303
			Bagroo	3,522 3,419
			Karang Berthi	5,278
			Dong	605
			Seyal	2,866
			Jashoi	2,290
			Sergari	3,518
			Eleel	2,667
			Kafar Banda	6,782
			Kareen	4,342
			Serto	6,052
			Thoti	11,416
			Doga Bela	7,092
			Gayal Kuz	2,613
			Kuz Parwa	2,707
			Gayal Bar	6,275
			Chawai	4,806
			Razika Lodhair	4,146
			Chechar Kuz	5,387
			Dher Gado	4,126
			Ashayal	4,135
			Siglo	4,602
			Razika Ashni	2,283
			Gadar	2,970
			Seo Gawo	4,312
			Sigal Rango Komila	3,032
			Zedkhar	4,209 5,943
			Bhasha Gahi	3,971
			Dargah	5,007
			Harban	5,753
			Shatyal Village	4,687
			Sumar Nalah	2,633
			Shuri Nalah	2,287
			Sazeen	4,010
			Jhamra	8,589

		streams/Nalla (here in local language	Kharlachi Upper to Chapri	15,000
		_ ′	Lower both River	
		above.From Kharalchi its junction with Kirman 19 KM down streams, it	Kurmatoie Area from Makhranie to Sadara	3,000
		received no further supply except from occasio nal float torrents from Kohi	Village Mangak Lower Kurram	800
		Safid, though an innumerable series of ravines cut in to plateau. For another 26	Burki on Pewar Khor Upper Kurram	3,000
	rain drainage fom the hill, but at Sadda at received Khurmana. Beyond village – Tangai and Bagzai Lower Kurram it	Kharchi On Istia Khor Upper Kurram	1,600	
		Pir Qauyum Sadda Lower Kurram	6,000	
		district and crosses over the Thall from where it enter in to north Waziristan	Army Colony,Hussani Colony,	1,200
		District.	Warsak Areas of Lower Kurram	40,000
			Kamil Baza Areas central Kurram	1,600
			Bulbalak Areas Upper Kurram	1,200
			Zera Mela central Kurram	1,500
21	Lakki	River Gambila, River Kurram.	Lakki I	1,600
	Marwat		lakki II	850
			Dara Tang	1,200
			Phar Khel Thall	450
			Landiwah	320
			Shamoni Khattak	420
			Mela Shahab Khel	250
			Darra Pezu	800
			Titter Khel	500
			Behram Khel	900
			Bakhmal Ahmadzai	300
			Mama Khel	1,000
			Mangiwala	400
			Dadiwala	350
			Baist Khel	400
			Naurang-II	1,100
			Naurang-I	600
			Kot Kashmir	1,300
			Shakh Quli Khan	1,200
			Takhti Khel	1,200
22	Malakand	River Swat, River Panjkora, Alladand	Din Abad Batkhela	4,221
		Khwarh, Thana Khwarh, Batkhela	Totakan	2,175
		Khwarh, Mekhband Khwar.	Middle Batkhela	2,120
			Ghat koto Thana	725
			Thana Jadeed	5,740
			Jalala Thana Jadeed	1,230

			Maday Khail Middle Batkhela	1,485
			Bazid Khail Thana Jadeed	1,460
			Ibrahim Khail Middle Batkhela	3,124
23	Mansehra	Siran & Kunhar	Balakot	27,018
			Satbani	16,827
			Shohal Mazullaha	18,097
			Talhata	21,932
			Ghari Habibullah	25,323
			Ghanool	7,711
			Garlat	26,809
			Jabori	13,460
			Bhogharmang	15,949
			Sum Elahi Mang	27,148
			Bedadi	9,527
24	Mardan	Kalpani, BalarNala	Toru	32,078
			Dagha Piran	27,923
			Baghdada	19,543
			Skandary	26,548
			Kaskoroona	40,528
			Bakhshali	32,991
			Garhi Ismail Zai	36,134
			Gujrat	32,274
			Jalala	32,448
			Gumbat	21,351
25	Mohmand	Kabul river, Swat River	VC-Tehsil Ekka Ghund	9,990
			VC-2 Ekka Ghund	6,567
			VC-1 Kamali Halimzai	10,898
			VC-2 Kamali Halimzai	9,956
			VC-3 Dab Kor	10,929
			VC-6	4,649
			VC-1 Bar Kadi Khel	4,116
			VC-2 Bar Kadi Khel Halimzai	5,210
			VC-3 Durba Khel Halimzai	4,478
			VC-1 Durba Khel Halimzai	4,534
			VC-1 Koz Dai Khel Halimzai	4,694
			VC-2 Koz Kadi Khel	6,404
			VC-1 Ambar	5,654
			VC-2 Ambar	9,894
			VC-3 Ambar	5,626
			VC-4 Ambar	8,116
			VC-5 Ambar	5,877
			VC-1 Dewezai Pindiali	7,264
			VC-2 Dewezai Pindiali	10,345

		I	170 4 5 1 11 11 11	
			VC-3 Dewezai Pindiali	6,532
			NC-1 Laman Uthman Khel	9,569
			Prang Ghar	
			VC-1 Prang Ghar	9,205
			VC-2 Sara Sha Prang Ghar	8,188
			VC-3 Yousaf Baba Prang Ghar	9,652
			VC-1 Atta area Khewezai	5,823
			NC-1 Qallagai Khewezai	9,603
			VC-Esak kor Khewezai	7,057
			VC-1 Koda Khel area Baizai	7,236
26	Nowshera	Kabul River, Kal Apni River	Bakhti, Manahi, Mando Khel, Motto Pati	406,762
27	Orakzai	River Mastora and Khanki	Entire District	40,000
28	Peshawar	River Kabul, Achini Khwarh, Zindi	Achini Bala	45,450
		Khwarh, Shaghai Khwarh, Pirbala	Mera Surizai Paya	27,286
		Khwarh, Bara khwarh, Hajizai river,	Shahi Bala	34,076
		Shahalam river	Panam Dehri	34,459
			Jogani	32,222
			Chaghar Matti	30,025
			Chamkani	34,184
			Budhni	31,918
			Mera Kichori	41,454
			Kankola	42,206
			Lala	27,845
			Khatki	30,134
			Urmer Bala	39,121
			Takhat abad	45,263
			Mathra	47,189
			Kafoor Dehri	34,806
			Musazai	28,823
			Haryana Payan	42,305
			Wadpaga	31,305
			Nahaqi	41,843
			Gulbela	40,593
			Khazana	38,111
			Pakha Ghulam	32,591
			Larhama	24,887
29	Shangla	River Indus, Khan Khwarh, L ilownai	Alpuri	44,034
	8	Ghwarban Khwarh, Sargar Khwarh, Lal	Lilownai	43,748
		Khani Khwarh, Amnavi Khwar,	Malak Khel	26,244
		Chakisar Khwarh, Puran Khwarh	Dehrai	35,021
			Pirabad	29,906
			Kuz Kana	21,616
			Ranyal	21,878
			Shahpur	26,101
			Damorai	22,282
			Daillolul	22,202

			Pirkhana	36,547
			Butyal	24,081
			Shang	19,664
			Chakisar	26,852
			Sarkool	30,036
			Bar Puran	29,166
			Behlool Khel	30,036
30	Swabi	Indus and Kabul	Saleem Khan	24,000
			Shagai	26,000
			Pabeeni	17,000
			Topi	28,000
			Jehangira	23,000
			Anbar	21,000
			KSK	26,500
			Kalu Khan	24,500
		Tandkoi	21,000	
		Panjpir	24,000	
31	Swat	River Swat	Jambil	12,443
			Kokarai	10,719
			Bahrain	12,363
			Mankiyal	14,944
			Balokot	7,821
			Madyan	12,972
			Beshigram	8,033
			Terat	14,207
			Damana	15,095
			Gulibagh	15,679
			Kishawra	7,215
			Kabal	10,055
			Kanju	12,856
			Totano Bandai	8,523
			Qalagay	17,834
			Kalakalay	13,070
			Shahderai	16,351
			Tall	12,819
			Kalam	16,580
			Utror	14,674
			Barikot	7,849
			Saidu Sharif	11,181
			Mingora	331,091
			Ingarodehrai	19,862
			Beha	9,444
			Barthana	1,200
			Chuprial	8,551
			Kharirai	1,760
			Takhtaband	1,340
			Odigram	14,731

		T.			C1 ·	0.140
					Shin	8,140
					Asala	9,833
				Chalyar	9,958	
					Manglawar	15,633
					Sarsardaray	5,026
					Sakhra	25,049
					Darmai	25,903
					Rahatkot	10,382
					Bara Bandai	34,626
					Kuza Bandai	30,459
					Dewlai	30,093
					Kota	27,700
					Mulababa	24,471
					Qambar	33,967
					Talegram	6,385
					Bama Khela	6,412
					Baidara	24,142
					Durshkhela	31,732
					Asharai	26,502
					Kalakot	8,955
32	Tank	Tank Zam, Gomal	Khwarh,	Kaur	Ranwal, Naurang, Khanu,	25,000
		Khwarh			Toran, Kahu, Cheena,	
					Bhagwal, Bara Khel, Kot	
					Allah Dad, Pir Abad Pai	10.000
					Pir Kach	10,000
					Gomal	5,000
					Uttar	11,000
						8,000
					Shah Alam	5,000
					Jathatar Thatta	11,000
						18,000
					Waraspoon Gara Baloch	7,500 8,000
					Gara Baioch Gul Imam	
					Tank	7,000 75,000
					Mullazai, Pai and Ama Khel	9,000
					Dabbara, Gomal,	17,000
					Sarangzona, Uttar	17,000
33	Torghar	River Indus			VC Daurmera	4,773
33	Torghai	Kivei ilidus			VC Shagai	4,763
					VC Sliagai VC Balkot	
					VC Baikot VC Pakban	3,457
					VC Pakban VC Lashora	3,760
					VC Lasnora VC Palosa	2,787
					VC Palosa VC Daddam	3,342
						2,745
					VC Manjakot	3,670
					Bartooni	5,431
					Mangri	4,231

34	North	Tochi, Kaithu	Nill	Nill
	Waziristan			
2.5	G 41		T 1 Cl: T 1 '1M 1'	1 (22
35	South	Shahoor Algad, Bangesh Wala Algad, Baddar Algad, Halal Algad, Toorwam Algad, Dwatoi Algad, Nano Algad, Dana Algad, Wacha Khurra Algad, Wana Toi Algad, Khaisorah Algad, Tank Zam Algad, Makin Algad, Shaktoi Algad	Tauda China Tehsil Makin	1,632
	Waziristan		Shaktoi Area Tehsil Ladha	1,000
			Shawal Tehsil Shawal	1,100
			Wana Tehsil Wana	2,500
			Tiarza Tehsil Tiarza	700
			Sarwakai Tehsil Sarwakai	1,300
			Ahmad Wam Tehsil Sararogha	1,200
			Kotkai / Zeriwam Area Tehsil Sararogha	2,300
		Angoor Adda	14,000	
		Azam Warsak	34,000	
		Shakai	33,500	
			Toi Khullah	52,300
			Spin Tanai	18,000
			TOTAL	9,498,760









	PDMA KHYBER PAKHTUNKHWA					
S.No.	Name / Designation	Office	Mobile	Fax		
1	Mr. Jannat Gul Afridi Director General	091-9213855	0310-5880999			
2	Mr. Muhammad Rehman Director Relief	091-9213890	0345-9355002	091-9219637		
3	Mr. Muhammad Amin Director (DRM)	091-9219628	0333-9278363	091 - 9219037		
4	Mr. Sajid Imran Director Rehabilitation	091-9216221	0300-8582395			
5	Mr. Zia Ur Rehman Director (CEW)	091-9216532 091-9216403	0348-8988551	091-9216520		
6	Mr. Yasir Nisar Assistant Director (Procurement)		0321-5778404			
7	Mr. Abdul Rehman Shah Assistant Director (Warehouse)		0333-9733456			
8	Mr. Taimur Ali Assistant Director (Media Focal Person)	091-9219635 091-9219636	0346-4081890			
9	Mr. Fahad Tahir Incharge (PEOC)		0311-9281272			
10	Mr. Muhammad Imran Assistant Director (Admn)		0345-9456782			
11	PEOC (Control Room)	091-921 921723		091-92 19637		
12	Mr. Sahibzada Saleem Deputy Director (DRM)	091-9219628	0333-9419622			
13	Mr. Hammad Afridi Assistant Director (DRM)	091-9219628	0332-9575544			
14	Mr. Ismail Khan DRR Specialist	091-9219628	0313-9297005			
15	Mr. Sajid Ali Coordinator DRM	091-9219628	0345-9290907			
16	Mr. Waqar Ali Shah MIS Officer	091-9219628	0346-4619665			

DIVISIONAL REPORTING OFFICERS OF PDMA KHYBER PAKHTUNKHWA						
S.No.	Name	Divisions	Contact No.			
1	Muhammad Umar Khan		Mardan	0345-9373099		
2	Salman Mulk	Danagting Officers	Malakand	0334-9023995		
3	Maqsood Anwar	Reporting Officers	Kohat	0345-9052824		
4	Ibrahim		Hazara	0333-9055254		

	DISTRICT COORDINATORS COMPLEX EMERGENCY WING (CEW) PDMA					
S.No.	Name	District	Contact No.			
1	Mr. Zia Rehman Afridi	Khyber	0300-5969632			
2	Mr. Imran Khan Wazir	North Waziristan	0333-9118404			
3	Mr. Said Umar	South Waziristan	0300-5926446 / 0345-9898203			
4	Mr. Shah Daraz	Kurram	0344-9445333			
5	Mr. Adnan	Bajaur	0346-9863780 / 0308-9161207			
6	Mr. Gul Rehman	Orakzai	0333-9673687			
7	Mr. Sajid	Mohmand	0333-2217680			

	COMMISSIONERS KHYBER PAKHTUNKHWA						
S.No.	Name of Officer	District	Office	Fax	Mobile		
1	Mr. Shahid Ullah Khan	Malakand	0946-9240226 0946-9240185	0946-9240229-178	0333-9744944		
2	Mr. Amir Sultan Tareen	Hazara	0992-9310111 / 9310222 / 9310444	0992-9310500	0333-5055181		
3	Mr. Yousaf Rahim	Mardan	0937-9230572-73	0937-9230578	0300-8581100		
4	Mr. Riaz Khan Masud	Pesahwar	091-9211337	091-9214085	0300-8599055		
5	Mr. Muhammad Ali Shah	Kohat	0922-9260002 / 0922-9260001	0922-9260105	0333-3002345		
6	Mr. Pervaiz Sabatkhel	Bannu	0928-9270044 / 0928-621144 / 09289270220	0928-9270041	0333-9118803		
7	Mr. Nisar Ahmad	D.I.Khan	0966-9280351	0966-9280352	0345-4744721		

	DEPUTY COMMISSIONERS KHYBER PAKHTUNKHWA							
S. No.	District	Name of Officer	Office	Residence	Fax	Mobile	Whatsapp	
1	Abbottabad	Mr. Khalid Iqbal	0992-9310200 / 01-24	0992- 9310464	0992 - 9310202	0346- 9264401	0346- 9264401	
2	Bajaur	Mr. Muhammad Anwar Ul Haq	0942-220559	0942- 220558	0942 - 220388	0345- 5576888	0345- 5576888	
3	Bannu	Mr. Manzoor Ahmad	0928-9270032	0928- 9270032	0928- 9270079	0346- 9111123	0346- 9111123	
4	Battagram	Mr. Tanveer ur Rehman	0997-310030	0997 - 310136	0997 - 310051	0333- 5705222	0333- 5705222	
5	Buner	Mr. Arshad Qayyum Barki	0939-510450	0939- 510888	0939- 510427	0300- 5322919	0300- 5322919	
6	Charsadda	Mr. Adnan Farid	091-9220024	091- 9220020	091- 9220021	0300- 5973761	0300- 5973761	
7	Chitral Lower	Mr. Muhammad Ali	0943-412055 / 412519 / 412368	0943- 412519	0943- 412421	0333- 9000677	0333- 9000677	
8	Chitral Upper	Mr. Khalid Zaman	0943-470355		0943- 470356	0342 - 1114816	0342 - 1114816	
9	D.I.Khan	Mr. Mansoor Arshad	0966-9280116	0966- 9280022	0966- 9280110	0300- 8814808	0300- 8814808	
10	Dir Lower	Mr. Iftikhar Ahmad	0945-9250003 / 09459250031	0945- 9250002	0945- 9250001	0333- 9399925	0333- 9399925	
11	Dir Upper	Mr. Gohar Zaman	0944-880394	0944 - 880104	0944- 881130	0333- 9186123	0333- 9186123	
12	Hangu	Mr. Fazal Akbar	0925-621175	0925- 623968	0925- 620050	0345- 9003428	0345- 9003428	
13	Haripur	Mr. Aun Haider Gondal	0995-920200	0995- 611149	0995- 615412	0321- 5771159	0321- 5771159	
14	Karak	Mr. Ahmad Zaib	0927- 210825/828, 0333-9713050	0927- 210825	0927- 210925	0331- 4313131	0331- 4313131	
15	Khyber	Mr. Abdul Nasir	9211901/4	9211904	9211900	0345- 9088004	0345- 9088004	

			I				
16	Kohat	Mr. Azmat Ullah	0922-9260268	0922- 9260031	0922- 9260032	0333- 9302515	0333- 9302515
17	Kohistan Lower	Mr. Rafique Khan	0998-405091	0998- 405113	0998- 405092	0330- 7400001	0330- 7400001
18	Kohistan Upper	Mr. Irfan Ullah	0998-407002	0998- 407193	0998- 407001	0342- 1114589	0342- 1114589
19	Kolai Pallas	M. Hakmat Ullah	PTCL Connection	not available		0345- 9774280	0345- 9774280
20	Kurram	Mr. Saif Ul Islam	0926- 310599/313532/ 310766	0926- 310599	0926- 310520/3 11797	0300- 0707111	0300- 0707111
21	Lakki Marwat	Mr. Abdul Hadi	0969-538330-1	0969- 538331	0969- 538333	0304- 4466565	0304- 4466565
22	Malakand	Mr. Shahab M Khan	0932-452080	0932- 452043	0932- 452105	0300- 5933164	0300- 5933164
23	Mansehra	Mr. Bilal	0997-920174	0997- 920174	0997- 305513	0349- 50141942	0349- 50141942
24	Mardan	Cpt (R) Abdur Rehman	0937-9230048	0937- 9230048	0937 - 9230303	0333- 8181828	0333- 8181828
25	Mohmand	Mr. Ehtisham Ul Haq	0924-290001 (Adc 0924- 290189)	0924- 290002	0924- 290075	0323- 5003839	0323- 5003839
26	Nowshera	Mr. Kabir Afridi	0923-9220099	0923- 9220098	0923- 9220159	0333- 8393939	0333- 8393939
27	Orakzai	Mr. Muhammad Tayyab Abdullah	0925-690008/3	0925- 680003	0925 - 690007	0333- 9103510	0333- 9103510
28	Peshawar	Mr. Shah Fahad	091-9212302	091- 9211338	091- 9211418	0333- 9680299	0333- 9680299
29	Shangla	Mr. Hasan Abid	0996- 850005/850911	0996- 850008	0996- 850006	0321- 5722588	0321- 5722588
30	Swabi	Mr. Furqan Ashraf	0938-920006	0938- 221220	0938- 221500	0333- 6682044	0333- 6682044
31	Swat	Mr. Irfan Ullah Khan	0946- 9240340/337	0946- 9240338	0946- 9240329	0333- 9734578	0333- 9734578
32	Tank	Mr. Shoiab	0963-511326	0963- 511326	0963- 510300	0337- 8623438	0337 - 8623438
33	Torghar	Mr. Zia Ur Rehman	(Faisal Latif) 0346-9708912 PS to DC	0340- 0562010	0997- 580188	0333- 9596387	0333- 9596387
34	North Waziristan	Mr. Rehan Gul	0928-300798	0928- 300798	0928- 300642/3 00600	0346- 8298525	0346- 8298525
35	South Waziristan	Mr. Ashfaq Khan	0963-510364 / 510386	0963- 510386	0963- 510442 0965- 210296/2 10748 WANA	0300- 9040564	0300- 9040564

AD	DITIONAL DEPUTY COMMISSIONER	R (RELIEF & HR) KH	YBER PAKHT	UNKHWA
S.No.	Name	District	Mobile Phone	Whatsapp
1	Ms. Rabia Sajjad (ADC Relief)	Abbotabad	0340-0907019	0340-0907019
2	Mr. Naseer Khan (ADC F&P)	Bajaur	0300-5929001	0300-5929001
3	Mr. Hamid Iqbal (ADC Relief)	Bannu	0345-9563000	0345-9563000
4	Mr. Hammad Haider (ADC Relief)	Battagram	0315-7639996	0315-7639996
5	Mr. Latif ur Rehman (ADC Relief)	Buner	0333-9112385	0333-9112385
6	Mr Usman Jillani (ADC Relief)	Charsadda	0300-9003888	0300-9003888
7	Mr. Ubaid Ullah (ADC Relief)	Chitral Lower	0333-9327929	0333-9327929
8	Mr. Fida Ul Karim (ADC G)	Chitral upper	0348-4344944	0348-4344944
9	Mr. Ahad Yousaf (ADC Relief)	D.I.Khan	0333-9634842	0333-9634842
10	Mr. Tariq Hussain (ADC Relief)	Dir Lower	0345-9531112	0345-9531112
11	Mr. Amir Liaqat (ADC G)	Dir Upper	0333-8999185	0333-8999185
12	Mr. Faheed Ullah (ADC Relief)	Hangu	0334-8810907	0334-8810907
13	Mr. Muhammad Abid (ADC Relief)	Haripur	0333-5056346	0333-5056346
14	Mr. Moeen Ud Din (ADC Relief)	Karak	0343-9316718	0315-9982233
15	Mr. Nouman Ali (ADC Relief)	Khyber	0333-9164728	0333-9164728
16	Mr. Abdul Rauf (ADC Relief)	Kohat	0333-9156373	0333-9156373
17	Mr. Bilal Nasir (ADC Relief)	Kohistan Lower	0314-9199466	0314-9199466
18	Mr. Imran Zia (ADC Relief)	Kohistan Upper	0306-5615850	0306-5615850
19	Mr. Ishtaiq Ahmed Khan (AC HQ)	Kolai Pallas	0300-9348675	0300-9348675
20	Mr. Kamran (ADC Relief)	Kurram	0334-8324975	0334-8324975
21	Mr. Habib (ADC Relief)	Lakki Marwat	0333-3000195	0333-3000195
22	Mr. Muhammad Umar (ADC Relief)	Malakand	0313-9427627	0313-9427627
23	Mr. Ishtiaq Sultan (ADC Relief)	Mansehra	0342-7865248	0342-7865248
24	Ms. Lubna Shah Zaman (ADC Relief)	Mardan	0336-8389830	0336-8389830
25	Mr. Muhammad Qamar (ADC Relief)	Mohmand	0345-9336847	0345-9336847
26	Mr. Umar Bin Riaz (ADC Relief)	Nowshera	0322-5169626	0322-5169626
27	Mr. Zahid Usman Kaka Khel (ADC Relief)	Orakzai	0346-5660175	0346-5660175
28	Mr. Imran Khan (ADC Relief)	Peshawar	0333-0506962	0333-0506962
29	Ms. Muneeba Fatima (AC HQ)	Shangla	0343-4455346	0343-4455346
30	Mr. Muhammad Ali Shah (ADC Relief)	Swabi	0331-5897848	0331-5897848
31	Mr. Ibrar Wazir (ADC Relief)	Swat	0336-5521148	0336-5521148
32	Mr. Naimat Ullah (ADC Relief)	Tank	0345-9849988	0345-9849988
33	Mr. Hasrat Khan (ADC Relief)	Torghar	0302-2223311	0333-9419622
34	Mr. Qasir Kundi (ADC Relief)	North Waziristan	0333-9961467	0333-9961467
35	Mr. Kashmir Khan (ADC Relief)	South Waziristan Lower	0345-9874078	0345-9874078
36	Mr. Naik Muhammad Bangash (AC HQ)	South Waziristan Upper	0300-9396779	0300-9396779

	CONTACT LIST OF NDMA AND OTHER PDMA'S						
S.No.	Name and Designation	Office No. / Fax No.	Cell No. / Fax No.				
		051-9222373					
	L. C. I. W.I.	051-9212444					
1	Lt. Gen. Inam Haider Chairman NDMA	Fax: 051-9202407 / 9204197, 9204179	051-9087801				
2	Major M. Ali Khan Director (Operations) NDMA	051-9030924	0333-5037187				
3	National Emergency Operation Center (NEOC)	UAN: 111157157					
3	National Emergency Operation Center (NEOC)	Ph: 051-9030727-28-29					
4	PDMA Sindh	Ph: 021-35381810					
	I DIVIA SIIIQII	Fax: 021-99332007					
5	PDMA Punjab	042-99203164-5					
<i>J</i>	I DiviA I unjao	Fax: 042-99204405					
6	PDMA Balochistan	Ph: 081-9241118					
7	SDMA (State Disaster Management Authority)	Ph: 05822-921536					
/	Azad Kashmir	Fax: 05822-921643					
	CDDMA	05811-922030					
8	GBDMA (Cilgit Poltiston Disaston Management	051811-920874					
ð	(Gilgit Baltistan Disaster Management Authority)	Fax: 05811-920875					
	rumonty)	Fax: 091-9216520					

	RESCUE 1122 KHYBER PAKHTUNKHWA						
S.No.	Name	Designation	Phone				
1	Dr. Khateer Ahmad	Director General	091-9222488, 9222531 Fax 9222487				
2	Dr. Ayaz Khan DG Rescue Academy / Director (Operation & Coordinations)		091-9222486 / Fax 9222537				
3	Engr. Nasir Khan	Director Admin	091-9222488				
4	Mr. Yasir Zeb	Deputy Director (HR)	091-9222422				
5	Mr. Aruj Sherazi	Deputy Director	091-9222490				
6	Mr. Niaz Ali	Assistant Director (Communication)	091-9212693				
7	Mr. Waqas Ali	Assistant Director (Legal)	0333-9297463				
8	Mr. Waseem	Admin Officer	091-9222491 / 0333-9368040				
9	Mr. Irfan Ullah	Procurement Officer	03159030315				
10	Mr. Umar	Deputy Director (Planning)	0346-9207902				
11	Mr. Afzal	Assistant Director Account	091-9222434				
12	Mr. Bilal Ahmad Faizi	Public Relation Officer (PRO)	0321-9087517				

R	RESCUE 1122 DISTRICT EMERGENCY OFFICERS (DEOs) KHYBER PAKHTUNKHWA						
S. No.	DEO Name	DEO Mobile No.	DEO Office No.	District Name	Control Room No.	Control Back Hand No.	
1	Mr. Arif khattak	0333-9292902	0992-9310519	Abbottabad	0992-9310560	0992-9310157-58	
2	Mr. M. Saad Khan	0333-9055550	0942-220845	Bajaur	0942-220846	0942-220847-50	
3	Mr. Muhammad Fahim	0330-6108687	0928-620739	Bannu	0928-664230	0928-620736-38	
4	Mr. Shariq Riaz Khattak	0313-7775858	097-310180	Batagram	0997-310184	0997-310181-83	
5	Mr. Nasir Khan	0335-9011911	0939-510120	Buner	0939-510129	0939-520126-28	
6	Mr. Ghayour Mushtaq	0313-5410976	091-9220433	Charsadda	091-9220456	091-9220191-93	
7	Mr. Zaffar Ud Din	0344-5188581	0943-414092	Chitral	0943-414093	0943-414092	
8	Mr. M. Awais Babar	0312-3148989	0966-9933438	D.I.Khan	0966-715166	0966-933432-36	
9	Mr. Ibrar Ahmad	0342-9666204	0945-9250177	Dir Lower	0945-821660	0945-821661-62	
10	Mr. Shah Wali Khan	0302-5742085	0944-880587	Dir Upper	0944-880583	0944-880580-82	
11	Mr. Haroon Khan	0333-8876363	0925-621316	Hangu	0925-621305	0925-621310	
12	Mr. Tanveer Ahmad	0300-9737728	0995-920185	Haripur	0995-920186	0995-627622-24	
13	Mr. Noor Amin	0345-9805740	0927-291364	Karak	0927-210364	0348-9541122	
14	Mr. Shoaib Mansoor	0331-2111122	091-5820405	Khyber	091-5820404	091-5820406	
15	Mr. Jawad Khalil	0333-9211455	0922-9260048	Kohat	0922-9260060	0922-9260049-51	
16	Mr. Sajid Ali	0345-5486175	0998-405112	Kohistan Lower	0998-405013	0998-405087	
17	Mr. Khaliq Dad	0349-8889188	Nil	Kohistan Upper	0998-407212	0998-407213-15	
18	Mr. Ghulam Murtaza	0330-5751122	0926-312491	Kurram	0926-312494	0926-312484-96	
19	Mr. Faseh Ullah	0334-8825448	0969-538019	Lakki Marwat	0969-538217	0969-538214-16	
20	Mr. Arshad Iqbal	0333-5958151	0932-411282	Malakand	0932-411282	0932-411283-85	
21	Mr. Hafeez Ur Rahman	0321-5266593	0997-920125	Mansehra	0997-920126	0997-920124-32	
22	Mr. Imran Khan	0314-9629626	0937-9230770	Mardan	0937-9230771	0937-840609	
23	Mr. Iftikhar Khan	0335-5133780	0924-290285	Mohmand	0924-290286	0924-290030-32	
24	Mr. Kamal Shah	0333-9365432	0923-9220299	Nowshera	0923-9220312	0923-9220309-11	
25	Mr. Bilal Afridi	0331-3111122	0925-650037	Orakzai	0925-650038	0925-650034-36	

26	Engr Naveed Akhter	0313-9550255	091-9225306	Peshawar	091-9225304	091-9225301-03
27	Mr. Sana Ullah	0300-5744402	0996-850401	Shangla	0996-850403	0996-850400-04
28	Mr. Rafi Ullah	0333-9987169	0938-280428	Swabi	0938-280423	0938-280427-28 0938-280327-29
29	Mr. Malik Sher Dil	0344-2379332	0946-9240260	Swat	0946-9240261	0946-9240249-51
30	Mr. Wiqas Alam	0348-9900060	0963-511521	Tank	0963-211100	0963-511501-03
31	Mr. Muhammad Jan	0312-9271163	0997-541073	Torghar	0997-541073	0997-541068-69
32	Mr. Bakhat Ullah	0333-9215963	0928-312746	North Waziristan	0928-312747	0928-312748-50
33	Mr. Wiqas Alam	0348-9900060	0965-210028	South Waziristan	0965-210027	0965-210017

	CHIEF ENGINEER (NORTH) IRRIGATION DEPARTMENT						
S.No.	District	Designation	Office / Fax No.	Resident	Mobile No.		
1	Dir	Execuve Engineer		0945-9250068			
2	Dir	SDO Balambat		0945-9250110			
3	Dir	SDO Dir Chakdara					
4	Malakand	Execuve Engineer		0932-452049			
5	Malakand	SDO W/W		0932-452063			
6	Mardan	Superintending Engineer		0937-9230194			
7	Mardan	Execuve Engineer		0937-9230195			
8	Mardan	SDO Mardan		0937-9230235			
9	Peshawar	Chief Engineer (North)	091-9212123				
10	Peshawar	Superintending Engineer (H/Q)	091-9212113				
11	Peshawar	Technical Officer	091-9222719				
12	Peshawar	Deputy Director (Design)					
13	Peshawar	Canal Collector	091-9222819		0345-9320802		
14	Peshawar	Superintendent (SWO)					
15	Swat	Superintending Engineer		0946-9240164	0946-725437		
16	Swat	Execuve Engineer		0946-9240165	0946-725437		
17	Swat	SDO Matta		-			

	SWABI IRRIGATION CIRCLE							
S.No.	District	Designation	Office No.	Fax No.				
1	Abbottabad	Executive Engineer	0992-9310247					
2	Abbottabad	SDO Abbottabad	0992-9310247					
3	Abbottabad	SDO Haripur	0995-319323					
4	Abbottabad	SDO Kohistan						
5	Chitral	Executive Engineer	0943-412641	0945-3412641				
6	Chitral	Sub Division Officer						
7	Peshawar	Executive Engineer (Mechanical)	091-9212120	0943-412641				
8	Swabi	Superintending Engineer	0938-224204					
9	Swabi	Execuve Engineer	0938-530484					
10	Swabi	SDO Shahbaz Garhi	0937-580590					
11	Swabi	Executive Engineer	0938-221392					
12	Swabi	SDO Pehur	0938-221392					

	CHIEF ENGINEER (SOUTH) IRRIGATION DEPARTMENT							
S.No.	District	Designation	Office No.	E-Mail				
1	Peshawar	Chief Engineer (South)	9212116	chiefoffice@yahoo.com				
2	Peshawar	Superintending Engineer South (H/Q)	9212174					
3	Peshawar	Technical Officer	9212122					
4	Peshawar	Deputy Director (Planning)	9112119					
5	Peshawar	Deputy Director (Design)	9212119					
6	Peshawar	Canal Collector	9210659					
7	Peshawar	Administrative Officer	9212118					

1	EXECUTIVE ENGINEER (HYDROLOGY) IRRIGATION DIVISION PESHAWAR							
S.No.	Division	Designation	Office No.	E-Mail				
1	Peshawar	Executive Engineer	091-9212114					
2	Peshawar	SDO Irrigation Sub Division Peshawar	091-9111907					
3	Abbottabad	SDO Abbottabad	0922-9310354					
4	Bannu	SDO Bannu	0928-9271997					
5	Peshawar	Project Director	091-9222774					
6	Peshawar	Project Manager	091-9222775					

7	Peshawar	Project Director		
8	Peshawar	Deputy Director		
9	Peshawar	Assistant Engineer	091-9226170	
10	Peshawar	Assistant Engineer		
11	Peshawar	Assistant Engineer		
12	Superdent En	ngineer Irrigation Circle Peshawar	091-9212115	
		Peshawar Canals Division Pe	shawar	
13	Peshawar	Execuve Engineer	091-9210102	
14	Peshawar	SDO KRC	091-9210113	
15	Peshawar	SDO Civil Canal	091-9210102	
16	Peshawar	SDO Drainage	-	
17	Peshawar	Deputy	091-9212123	
		Warsak Canal Division Pes	hawar	
18	Peshawar	Execuve Engineer	091-9212502	
19	Peshawar	SDO	091-9212502	
20	Peshawar	SDO	091-9212502	
21	Peshawar	SDO	091-9212502	
		Tube Wells Irrigation Division	Peshawar	
22	Peshawar	Execuve Engineer	091-9222731	
23	Peshawar	SDO T/W Sub Division Peshawar	091-9222731	
24	Peshawar	SDO T/W Pabbi	091-9222731	
		Xen Charsadda Irrigation D	ivision	
25	Charsadda	XEN	091-6514641	
26	Charsadda	SDO Charsadda	-	charsaddairr
27	Charsadda	SDO Shabqadar	091-628144	@yahoo.com
28	Charsadda	SDO Tangi	091-618144	
		Superintendent Engineer Bannu Iri	igation Circle	
29	Bannu	SE Bannu	0928-9270061	
30	Bannu	XEN: Marwat Canal	0928-9270063	sebicbannu
31	Bannu	SDO Civil Canal	0928-9270063	@gmail.com
32	Bannu	SDO Sarai Nourang	0928-9270063	Burnani
33	Bannu	XEN: Bannu Canal	0928-9270056	

34	Bannu	SDO Head Work	0928-9270056			
35	Bannu	SDO Jani Khel	0928-9270056			
36	Bannu	SDO Tajori	0928-9270056			
37	Kohat	XEN: Kohat	0922-9260173			
38	Kohat	SDO Tanda Dam	0922-9260173			
39	Kohat	SDO Project	0922-9260173			
40	Kohat	SDO Irr:S/Divn:	0922-9260173			
XEN CRBC						
41	CRBC	XEN CRBC	0966-9280237	1 .		
42	CRBC	SDO 0966-9280113		xencrbcirr @yahoo.com		
43	CRBC	SDO	0966-720074			
XEN Flood Irrigaton Division D.I.Khan						
44	D.I.Khan	XEN Flood	0966-713303			
45	D.I.Khan	SDO	0966-713303	xenflooddik		
46	D.I.Khan	SDO	0966-713303	@gmail.com		
47	D.I.Khan	SDO	0966-713303			
		XEN Gomal Zam Irrigation l	D.I.Khan			
48	D.I.Khan	XEN Gomal Zam	0966-9280336			
49	D.I.Khan			xengomalzamdik		
50	D.I.Khan			@gmail.com		
51	D.I.Khan	SDO	0966-9280024			
Irrigation Flood Season 2023						
52	Peshawar	Chief Engineer (South)	091-9212116			
			091-9212119			
53	Peshawar	Superintending Engineer (HQ) South	091-9212174			
54	Peshawar	Irrigation Circle Peshawar	091-9212115			
55	D.I.Khan	Irrigation Circle D.I.Khan	0966-9280238			
56	D.I.Khan	Flood Irrigation Division	0966-713307			

RELIEF, REHABILITATION & SETTLEMENT DEPARTMENT KHYBER PAKHTUNKHWA					
S.No.	Name	Designation	Telephone	Mobile / Whatsapp No.	
1	Mr. Abdul Basit	Secretary	091-9212058	0300-5732224	
2	Muhammad Nawaz	Additional Secretary	091-9213250	0303-5077773	

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1	Agriculture Department	9210025	9210033	secretaryagri@kp.gov.pk	
2	Communication & Works Department	9210859	9223454	cwd.gkp@gmail.com	
3	Climate Change, Forestry, Environment & Wildlife Department	9210333	9223493	secretaryforestkpk@gmail.com	
4	Food Department	9225373	9225374	fooddirectoratekpk@gmail.com	
5	Health Department	9210342	9210419	secretaryhealthkp@gmail.com	
6	Higher Education Department	9210337	9210368	secyhed@yahoo.com	
7	Home & Tribal Affairs Department	9211121	9210201	htanwfp@gmail.com	
8	Industry Department	9210924	9210896	secyind@yahoo.com	
9	Information & Public Relations Department	9210365	9210387	infdeptt@gmail.com	
10	Irrigation Department	9210845	9210874	irrigaonpsh@gmail.com	
11	Labour Department	9223694	9223697	labourdepartmentkpk@gmail.com	
12	Local Government, Election & Rural Development Department	9211450	9210323	secylgkp2013@gmail.com	
13	Planning & Development Department	9210516	9211369	secretary.kpkpnd@gmail.com	
14	Population Welfare Department	9211535	9213466	secretarypwdkp@gmail.com	
15	Tourism Department	9212086	9212535	secretarytourismkp@gmail.com	
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2	Director	091-9210966		
3	Director (Central)	091-9211560		
4	Director (Admn)	091-9223498		
5	Deputy Director (CC)	091-9223586		
6	Deputy Director (MES)	091-9223584		
7	Deputy Director (EIA)	091-9212145		
8	Geological Information System (GIS)	091-9223585		

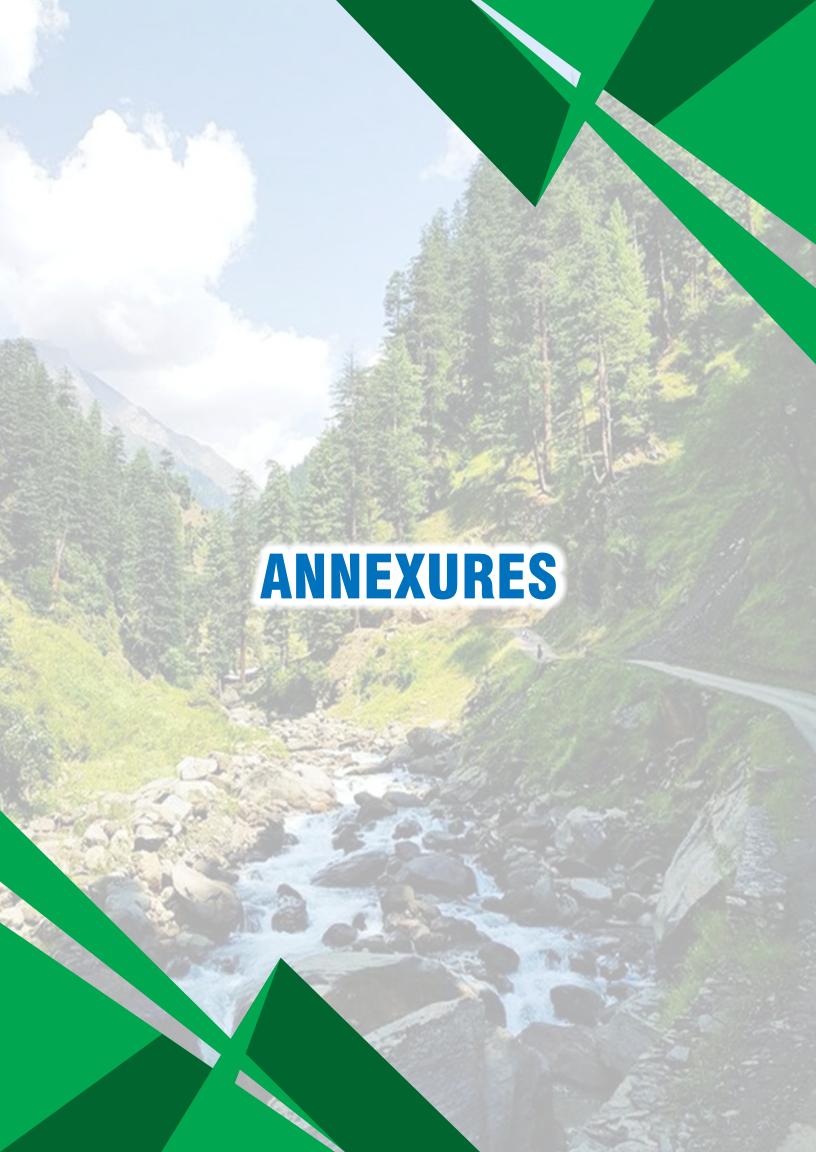
	PAKHTUNI	KHWA HIGHWAYS AUTHORIT	Y (PKHA)	
S.No.	Name	Designation	Office	Mobile No.
1	Engr: Sohail Idrees	Director - I	091-9213272	0321-9045161
2	Engr: Muhammad Sajid	Director - II	091-9210963	0342-9638774
3	Engr: Adnan Khan	Director - III	091-9223541	0336-3640444
4	Engr: Naeem Ullah Khan	Deputy Director (HQ)	091-9213522	0300-5902536
5	Engr: Usman Shinwari	Deputy Director (Center)	091-9210444	0321-5212116
6	Engr: Muhammad Ayaz	Deputy Director (North) Swat	0946-9240118	0342-9110074
7	Engr: Ahmad Ali	Deputy Director (East) Abbottabad	0992-9211469	0345-9619108
8	Engr: Badrul Islam	Deputy Director (RMU) Naguman	091-6224 397	0300-5839456
9	Engr: Mehdi Raza	Deputy Director (South) Kohat	091-9211469	03459161775
10	Engr: Hassan Jan	DD (Merged Area) D.I.Khan	0966-9280340	0345-9851090

	DISTRICT HEALTH OF	FFICERS (DHO's) KHYBI	ER PAKHTUNKHWA
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5	Charsada	091-9220159	dhochd01@gmail.com
6	Chitral Lower	0943-412754	dhochitral@gmail.com
7	Chitral Upper	0344-9734264	dhochitralupper@gmail.com
8	D.I.Khan	0966-933199	dhodikhan@yahoo.com
9	Dir Lower	0945-9250098	dhodirlower@gmail.com
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14	Kohat	0922-514100	dhokohat@gmail.com
15	Kohistan Lower	0345-5001825	dhokohistanlower@gmail.com
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20	Mansehra	0997-4920169	edomra@yahoo.com
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23	Nowshera	0923-580759	-
24	Peshawar	091-9225388	dhispeshawar@gmail.com
25	Shangla	0996-850653	edoshahngla@gmail.com
26	Swabi	0938-300053	edohealthswabi@yahoo.com
27	Swat	0946-9240139	edoh@gmail.com
28	Tank	0963-510755	edohtank1@hotmail.com

PAF	PAKISTAN METEOROLOGICAL DEPARTMENT (MET) KHYBER PAKHTUNKHWA									
S.No.	Name	Designation	Office No.	Cell No.						
1	Ms. Ghazala Qaiser	Director	091-9210190	0333-4465861						
2	Mr. Alamzeb	Deputy Director	091-5253508	0300-5683101						
3	Mr. Muhammad Fahim Ahmad	Deputy Director	091-9212410	0333-5224566						
4	Mr. Gul Muhammad	Meteorologist	091-9212410	0346-9469392						

FC	OCAL PERSONS OF METEOR	OLOGICAL STATIONS KH	YBER PAKHT	UNKHWA
S.No.	Station	Focal Person	Office No.	Cell No.
1	Chitral City (Chitral Lower)	Mr. Noor Kamal	0943-412934	0348-9144316
2	emulai enty (emulai Eower)	Mr. Manzoor Ahmad		0346-9892825
3	Mirkhani (Chitral Lower)	Mr. Fazl e Amin	0344-9705251 0345-2775009	0344-9705251
4	Drosh (Chitral Lower)	Mr. Abdullah	0943-480102 0346-9894150 0307-8522615	0320-9016911 0307-8522615
5	Kalam (Swat)	Mr. Naveed Ali	0314-9746073	0321-9676079
6	Saidu Sharif (Swat)	Ms. Zobaria Pervaiz	0346-0507540	0333-9196419 0346-0507540
7	Malam Jabba (Swat)	Mr. Said Zaman	0345-4236634 0345-9453861	0345-9453861
8	Timergara (Dir Lower)	Mr. Sajjad Ali	0340-9497177	0342-9187300
9	Dir City (Dir Upper)	Mr. Sher Hassan	0944-881380	0346-9311545
10	Pattan (Kohistan Lower)	Mr. Saklain Khan	0345-9133583	0345-9133583
11	Peshawar	Mr. Naseeb Khan	091-9210190 091-9210184	0333-9144902
12	Kakul (Abbottabad)	Mr. Arshad Mehmood	0334-8952195 0311-9400480	0311-9069577
13	Balakot (Mansehra)	Mr. Zaheer Iqbal	0997-500699	0312-1850049 0300-8329916
14	Parachinar (Kurrum)	Mr. Asghar Khan	0331-9160096 0302-9180998	0331-9160096
15	Bannu	Mr. Haji Khan	0332-9204376 0333-9966077 0345-9834882	0345-9834882
16	Cherat (Nowshera)	Mr. Hameed ur Rehman	0302-5771445 0312-2080880 0306-0240393	0302-5771445
17	Takht Bahi (Mardan)	Mr. Hassan Ali Shah	0937-545004	0333-9472011 0312-0768735

	DEVELOPMENT AUTHORITIES KHYBER PAKHTUNKHWA								
S.No.	Department	Contact No.							
1	Peshawar Development Authority	091-9217135							
2	Kaghan Development Authority	0997-303722							
3	Galiyat Development Authority	0992-9310240							
4	Kalam Development Authority	0946-920232							



ANNEXURE - I

NDMA GUIDELINES FOR MINIMUM STANDARD OF RELIEF ITEMS

- 1. With onset of summer season; heatwaves, forest fires and GLOF events can be expected across the country in respective hazard prone areas. Based on the vulnerability of different regions, the impacts can vary, hence requiring requisite preparations by respective disaster management authorities, rescue agencies, line departments and local administrations.
- 2. Apropos, all PDMAs/ SDMA/ GBDMA/ ICT administration, health departments, line departments, rescue agencies/ responders/ USAR teams, Armed Forces and federal departments/ Ministries are required to undertake pro-active measures to ensure timely preparations and response against likely hazards. Following guidelines are proffered: -

a) Heat Wave

- (1) PDMAs in collaboration with DDMAs/ Local administration to carryout extensive awareness campaign for sensitizing public of likely dangers associated with heatwave like conditions and associated preventive measures.
- (2) Ministries, departments and local administration to undertake required measures for protecting children from exposure of heatwave conditions in education institutes.
- (3) Identification of high-risk areas and establishment of heatstroke treatment centers with required doctors/ paramedic staff and water.
- (4) MoNHSR&C to issue necessary instructions to all concerned for enhancing departmental and hospital capacities to manage heatwave conditions.

b) Individual Measures

- (a) Remain hydrated; drink sufficient quantity of water, keep a drinking water bottle for regular intake.
- (b) Stay cool; avoid exposure to direct sunlight and crowded spaces.
- (c) Remain informed; keep track of local weather conditions to avoid exposure to extreme conditions.
- (d) Consult physician; in case of any signs of illness consult a qualified physician to seek expert medical advice.
- (e) Plan work/ exercise/ outdoor activities; manage work timeline according to weather conditions and avoid unnecessary exposure to heatwave like conditions.
- (f) Special attention and care of elderly and people with underlying health conditions must be ensured.

c) Vehicle Fitness

- (g) Plan move/ travel; vehicles and humans both can be adversely affected due to heatwave like conditions, ensure that move/ travels are planned to avoid unnecessary exposure to heat/ sun.
- (h) Long distance moves; in hot summer days are strenuous on vehicles due to requirement of air-conditioning and extra-heated road surface.
- (i) Fitness of vehicles during summers must be ensured due to extra stress on engine and tyres. Get vehicles checked from a mechanic and ensure that oils/ fluids and tyre conditions are appropriate before making any travel plans.

d) Forest and Urban Fires

- (5) Carryout immediate risk/ vulnerability assessment of respective regions to identify fire prone sites/ areas.
- (6) Expedite work of preparation and mitigation measures in respective areas:-
 - (a) Forests; creation of fire lines/ lanes, ditches, clearance of dry foliage, dry grss, planning and executing controlled fires. All measures in line with SOPs of forest department must be ensured.
 - (b) Buildings/ warehouses/ storage facilities; fire drills, fitness of equipment, readiness of water supply/ replenishment points, checking and refilling of fire extinguishers. All measures in line with building/ warehouse/ storage facility safety codes must be ensured by concerned administration and checked by concerned government department/ authority.
- (7) Engage local communities at fire prone sites to enable round the clock monitoring and feedback mechanism for early warnings and alerts for at-risk population and assets, (areas in vicinity of forests and high-rise buildings/ storage facilities/ warehouses etc).
- (8) Organize forest/ urban fire mock exercises for both departmental preparedness and combined exercises with all stakeholders for readiness of men and machinery/ equipment.
- (9) Local administration to assess and plan deployment of additional resources in coordination with forest department and building management.

e) Glacial Lake Outburst Flood (GLOF)

- (10) Carryout immediate risk/ vulnerability assessment of respective regions to possible GLOF sites/ areas in addition to already identified locations.
- (11) Ensure round the clock monitoring mechanism/ arrangements through all possible means/ resources, especially involving the local communities for immediate dissemination of early warnings.
- (12) Mass awareness campaign for general public on GLOFs in at risk areas covering following aspects:
 - (a) Avoid unnecessary movement in such areas, especially across nullahs/ streams and rivers.
 - (b) High risk associated with exponential rise of flow/ discharge, which can result in washing away of houses, infrastructure, vehicles, humans and livestock.
 - (c) Alerting general masses living in low-lying areas to exercise extra caution including community-based alert system.
 - (d) Evacuation plan of at-risk community and conduct of evacuation drills.
- (13) LEAs/Traffic Police to advise travelers regarding likely situations/dangers and safety measures.

f) General Instructions

- (14) Energize existing local administration/ DDMAs and line department-based monitoring and reporting mechanism in vulnerable areas.
- (15) Coordinate with concerned departments (NHA, FWO and C&W) for restoration of roads in case of any blockage / obstruction / closures and preplacing of necessary emergency equipment at vulnerable / strategic locations.

- (16) Local Administration / Police / Rescue Services to alert population residing in low lying areas.
- (17) Activate the forward tourist/ traveler's facilitation centers in respective regions.
- (18) Coordinate with local hotel and transport associations for facilitating travels, tourists and locals in case of emergency.
- (19) Travelers and tourists be forewarned about likely risks posed at vulnerable locations based on likely hazards.
- (20) Plan and conduct field visits/ reconnaissance by all stakeholders; including members of local administration, line departments/ C&W, Rescue 1122/ USAR teams and Armed Forces/ CAFs/ Levis for updated orientation and situational awareness.
- (21) Establishment of EOCs at district and province level for continuous monitoring of situation.

ANNEXURE - II

MINUTES OF THE MEETING WITH PROVINCIAL LINE DEPARTMENTS FOR PREPARATION OF MONSOON CONTINGENCY PLAN (2023)



PDMA

Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



Date: 31-03-2023

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

The Secretary to Government of Khyber Pakhtunkhwa:

- 1. Communication & Works Department.
- 2. Irrigation Department.
- 3. Public Health Engineering Department.
- 4. Local Government & Rural Development Department.
- 5. Climate Change, Environment, Forestry & Wildlife Department.
- 6. Agriculture Department.
- 7. Livestock & Dairy Development Department.
- 8. Food Department.
- 9. Health Department.
- 10. Elementary & Secondary Education Department.
- 11. Higher Education Department.
- 12. Tourism Department.
- 13. Zakat, Ushar, Social Welfare & Women Development Department.
- 14. Energy & Power Department.
- 15. Industries, Commerce & Technical Education Department.
- 16. Labour Department.
- 17. Transport Department.
- 18. Information Department.
- 19. The Director General, Rescue 1122, Khyber Pakhtunkhwa.
- 20. The Director, Civil Defence, Khyber Pakhtunkhwa.

Subject:

MINUTES OF THE MEETING WITH PROVINCIAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Dear Sir.

I am directed to refer to the subject cited above and to enclose herewith minutes of the meeting held on 28-03-2023 regarding preparation of the Provincial Monsoon Contingency Plan 2023 for the upcoming monsoon season for information and further necessary action please.

Assistant Director DRM (R&HA) PDMA

Copy of the above is forwarded for information to the:

- 1. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 2. PA to Director General, PDMA, Khyber Pakhtunkhwa.
- 3. PA to Director (DRM), PDMA.

Assistant Director DRM (R&HA) PDMA Subject:

MINUTES OF THE MEETING WITH PROVINCIAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

The subject meeting was held on 28-03-2023 at 11:00 AM under the Chairmanship of Director (DRM), PDMA in the Auditorium of PDMA, Hayatabad, Peshawar (List of participants is attached).

- 2. The meeting started with the recitation from the Holy Quran followed by introductory session. The Chair welcomed all the participants and apprised them about the Monsoon Contingency Planning process, hazards identification and various mitigation, prevention and preparedness strategies. He further elaborated on the importance of consultation with Provincial line departments for developing Monsoon Contingency Plan (MCP) because Provincial line departments are the main stakeholders and implementers of Disaster Risk Management (DRM) as per their assigned mandate and are expected to adopt proactive approach before the onset of monsoon season 2023 for saving precious human lives, public and private properties, infrastructure, agriculture and livestock etc.
- 3. The representatives of Provincial Line departments shared their experiences, lessons learnt, issues and challenges that need to be observed for better monsoon planning and response. After detailed discussion on preparatory measures to be under taken by Provincial Line departments, the following decisions were unanimously taken by the forum:



- All Provincial Line Departments will share their respective plans / preparation (pre, during, post) in disasters and relevant data / reports regarding Monsoon Contingency Planning.
- ii) All the Provincial Line Departments are requested to share their SOPs, precautionary measures undertaken to Information Department for awareness of the general public in order to save their lives, properties and livestock etc.
- All the Provincial line departments will activate their control rooms 24/7 during monsoon season and share the details of focal person for coping with emergency situation / disaster for linking with Provincial Emergency Operation Center (PEOC) of PDMA during monsoon season.
- iv) All the representatives of Provincial Line departments were requested to share their plans within seven days to start finalization of Monsoon Contingency Plan (MCP) 2023.
- 4. The meeting ended with a vote of thanks to and from the Chair.

THE FING WITH PROVINCIAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023

Time: 11:00 AM

S.N0.	Name	Designation	Department	Cell No	E-mail	Signature '
01	Sharif Hussain	09	ROMA			
02	Muhammed Amin	Oil (ORM)	POMA			() -
03	Salibzoch Salecen	DD DRIA	DOMA, KP	0333-941962	2	Jaals
04	Signed Rei	Cond DRM	pour rep	0545928090	_	dow
05	HAMMAD AFRIDI	AD (DRM)	POMA-RP	0332-9595544	hafridi 1900 Cyona	e (m)
06	Ríaz Muhammad	DS (Admn)	Higher Educat Depth.	0332-9706	420	Ry
07	Doulat Ichan	DS (Town)	anthe tours	0334867145	- landatcher 190 gim	the
08	Muhammad Adnan	PO HED	HED	vsu59172213	adningpl@yahorcom.	Charl

MEETING WITH PROVINCIAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023

Time: 11:00 AM Dated: 28-03-2023

S.NO	Name	Designation	Department	Cell No	E-mail	Signature
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10	Ahson ulah Mahsord	Had Scc LCB	hocal firt & RDDKPK,	0333-5813633	•	
11	Engr. Paheem weloth	Astl-Rngr	Leb/LG/ROD	03459394798	Feben with. 12 Egmil.	74.
12	Muhammad Ilyas	Director Fisherius	Fisherics Dept	0333-8976185	ilyas teham 20 @ gmail	? .
13	Syed Masood Shah	Supto	Livestock Delett	0333-92/0142	Syedmasord sheh egy	red. com & proft
14	Zahid Robbani Mulammad Saddique	P.P (HQ)	Agril 2ngg	0336-9175725	Zohindobn2@gmain).cam	
15	Mukammad Saddique	ADMEE Office	GCC PDMA	0334 8356295	Cpm. e Opdma. 90v. Pa	Donw
16	Amin hassan	DS Rood	Food.	03458855	anni. harransati. Ports	Ham

MEETING WITH PROVINCIAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023

Time: 11:00 AM Dated: 28-03-2023

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18	Ismail Khan		,		ismail.dom>01> R	200
19	Smail Khan MHANRAZIO	section of the	er Tromsport Depe		999. renew ragiz 13 e 94	enis con.
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21	Shamsul Hal	D. Director (Communication)	DaIPA Information Dept	03009178450	informardans@gmail	slok
22	Bushir-ullah	Rescue-1122 AD (cps)	Rescw-1122	03368381072	be himes hod & good con	e S
23	1brar Ullah	AD (Admn) Social welfare	Social welfare department.	03005566684	garibrar a gmail con	Son
24	ENGR. MUDASSAR ZEB KHAM	MANAGER PLANNING	KPEZDML	0335-0099214	mudassar.zeb@kpezDmc	Las m.
25	Rizabour Doubs of	Datu Dive abox	Agriculture	02239747147	Tri wania wed was 20 A.	W. W.

MEETING WITH PROVINCIAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023

Time: 11:00 AM Dated: 28-03-2023

S.NO	Name	Designation	Department	Cell No	E-mail	Signature
26	Or Spid Khu	Dy- Bir-Field	Agri- Ed. up	0 811 9276071	Spopenius Commilia	129/3/23
27	Akram Khan	Deputy Directo	y civil Defence	0332.85434	8	Somth
29	M. Havoon	Training Assiste				Haxon Thillar
30	Ruhra Nigaz Falsad Taluir	Add/: Secy hichorge PEOG POMA	PDAYAJUP	03329339957 03119281272	incharperc.pdwaekg.	- Almi bii
31	Akhber 94. Char	DS(4)	E & P Deptt	0332-8084679	, –	3 m
32	Engr. Janouel Ali U	SE	C/w	0300-972500		(all and
33	Saad ur Rehman	AD	Labour Deptt.	0311-9998855	adlhar. kpk@gmail.	Kemans

ANNEXURE - III

MINUTES OF THE MEETING WITH FEDERAL LINE DEPARTMENTS FOR PREPARATION OF MONSOON CONTINGENCY PLAN (2023)



PDMA

Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



Date: 31-03-2023

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

- 1. The Chairman, National Disaster Management Authority (NDMA), Islamabad.
- 2. The General Manager, National Highway Authority (NHA), Peshawar.
- 3. The General Manager, Pakistan Railways, Peshawar.
- 4. The General Manager, (PTCL), Peshawar.
- 5. The Chief Executive Officer, PESCO / TESCO, Peshawar.
- 6. The Director, SUPARCO, Peshawar.
- 7. The Director, Regional Meteorological Centre, Peshawar.
- 8. The Director, National Tele Communication, Peshawar.
- The Head Quarter 11 Corps, Pak Army, Peshawar.

Subject:

MINUTES OF THE MEETING WITH FEDERAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Dear Sir.

I am directed to refer to the subject cited above and to enclose herewith minutes of the meeting held on 30-03-2023 regarding preparation of the Provincial Monsoon Contingency Plan 2023 for the upcoming monsoon season for information and further necessary action please.

Assistant Director DRM (R&HA) PDMA

Copy of the above is forwarded for information to the:

- 1. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 2. PA to Director General, PDMA, Khyber Pakhtunkhwa.
- 3. PA to Director (DRM), PDMA.

Assistant Director DRM (R&HA) PDMA Subject:

MINUTES OF THE MEETING WITH FEDERAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

The subject meeting was held on 30-03-2023 at 11:00 AM under the Chairmanship of Director (DRM), PDMA in the Auditorium of PDMA, Hayatabad, Peshawar (List of participants is attached).

- 2. The meeting started with the recitation from the Holy Quran followed by introductory session. The Chair welcomed all the participants and apprised them about the Monsoon Contingency Planning process, hazards identification and various mitigation, prevention and preparedness strategies. He further elaborated on the importance of consultation with Federal line departments for developing Monsoon Contingency Plan (MCP) 2023 and for implementation of Disaster Risk Management (DRM) as per their assigned mandate and are expected to adopt proactive approach before the onset of monsoon season 2023 for saving precious human lives, public and private properties, infrastructure, agriculture and livestock etc.
- 3. The representatives of Federal Line departments shared their experiences, lessons learnt, issues and challenges that need to be observed for better monsoon planning and response. After detailed discussion on preparatory measures to be under taken by Federal Line departments, the following decisions were unanimously taken by the forum:



- i) All Federal Line Departments will share their respective plans / preparation (pre, during, post) in disasters and relevant data / reports regarding Monsoon Contingency Planning.
- ii) All the Federal Line Departments are requested to share their SOPs, precautionary measures undertaken, to Information Department for awareness of the general public in order to save their lives, properties and livestock etc.
- iii) All the Federal line departments will activate their control rooms 24/7 during monsoon season and share the details of focal person for coping with emergency situation / disaster for linking with Provincial Emergency Operation Center (PEOC) of PDMA during monsoon season.
- iv) All the representatives of Federal Line departments were requested to share their plans within seven days to start finalization of Monsoon Contingency Plan (MCP) 2023.
- 4. The meeting ended with a vote of thanks to and from the Chair.

MIGETING WITH FEDERAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023

Time: 11:00 AM Dated: 30-03-2023

S.N0.	Name	Designation	Department	Cell No	E-mail	Signature
01	Muhammad Amin	Director LORM)	POMA-KP			Oh:
02	Dr Said Rahman	Director Peshawar Ru	SUPARIO	03212147466	Cir. spare perhawa	Mugan
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00	ABOUL SADEEL	Assistant.	Pak Railweys		2 gadeer@Gmail	
07	Dr. Muhammed Fahim	Dy. Director	PMD, Peshaver		fahimpmd Qquail	El Ha
08	Salibzado Salecin	D.D Dem	PDMA, KP	0333-9419622		Jaa8

MEETING WITH FEDERAL LINE DEPARTMENTS REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023

Time: 11:00 AM Dated: 30-03-2023

S.NO	Name	Designation	Department	Cell No	E-mail	Signature
09	1 10 121	DRM Specialist	PDMA KP	03139297005	ismail.dtm2012	\$20
10	Ismail Khan HAMMAD AFRIDI	AD (DRM)	POMA ICP	0332-9575546	hafridige10	5/2)
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ANNEXURE - IV

MINUTES OF THE MEETING WITH DISTRICTS ADMINISTRATION OF KHYBER PAKHTUNKHWA FOR PREPARATION OF MONSOON CONTINGENCY PLAN (2023)



PDMA

Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



Dated: 11-05-2023.

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

All Deputy Commissioners, Khyber Pakhtunkhwa.

Subject:

MINUTES OF THE MEETING WITH DISTRICTS ADMINISTRATION OF KHYBER PAKHTUNKHWA REGARDING PREPARATION OF MONSOON CONTINGENCY PLAN (MCP) 2023.

Dear Sir,

I am directed to refer to the subject noted above and to enclose herewith the minutes of the meeting regarding preparation of Monsoon Contingency Plan (MCP) 2023 held on 08-05-2023 under the Chairmanship of Secretary Relief, Rehabilitation & Settlement Department, Government of Khyber Pakhtunkhwa for information & further necessary action please.

Assistant Director DRM (R&HA) PDMA

Copy forwarded for information to the:

- 1. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 2. All Commissioners, Khyber Pakhtunkhwa.
- 3. All ADC's (Relief/HR)/DDMO's Khyber Pakhtunkhwa.
- 4. PS to Secretary (RR&S) Department, Khyber Pakhtunkhwa.
- 5. PA to Director General, PDMA, Khyber Pakhtunkhwa.
- 6. All the Divisional Reporting Officer, PDMA, Khyber Pakhtunkhwa.

Assistant Director DRM (R&HA) PDMA Subject:

MINUTES OF THE MEETING WITH DISTRICTS ADMINSTRATION OF KHYBER PAKHTUNKHWA REGARDING PREPARATION OF MONSOON CONTINGENCY PLAN (MCP) 2023.

The subject meeting was held on 08-05-2023 at 9:30 AM under the Chairmanship of Secretary Relief, Rehabilitation & Settlement Department, Government of Khyber Pakhtunkhwa at Shelton Rezidor Hotel, Peshawar (List of participants attached).

- 2. Meeting started with the recitation of Holy Quran. The Chairman welcomed the participants of the meeting and briefed the forum about the purpose of the meeting. The Chair expressed that PDMA has started the process of Monsoon Contingency Planning for the upcoming season. The proactive planning will help to assess the capabilities of all stakeholders, especially Districts Administration which plays the front role and also the first responder in any disaster occurring in the province.
- 3. After threadbare discussion, the following decisions were taken;
 - To arrange training / awareness session for employees of PDMA, Rescue 1122 and Directorate of Civil Defense, Khyber Pakhtunkhwa for coping with emergencies / disaster situations.
 - Strengthening of District Disaster Management Units (DDMUs) on districts level under the supervision of Additional Deputy Commissioner (ADC(Relief & HR)).
 - Need to activate strong coordination amongst all the stakeholders i.e. PDMA, Rescue 1122, Civil Defense, Districts Administration, Provincial Line Departments, Federal Line Departments and Humanitarian Organizations for copping any emergency / disasters situation.
 - Assisting Pakistan Meteorological Department with reference to provision of space / land for installation of Met observatory / equipments for forecasting in each districts where needed.
 - Identification of vulnerable locations in a district.
 - Conducting Mock Exercises in those vulnerable locations by involving local communities' participation in activities such as evacuation routes identification, search & rescue operations, provision of NFIs and FIs etc.
 - Identifying critical infrastructure details i.e. roads, bridges by acquiring assistance from GIS Analysts in the districts.
 - Involving local communities in contingency planning so as to incorporate local wisdom / knowledge in the planning process.

The Meeting ended with a vote of thanks to and from the Chair.





MEE FING WITH DISTRICTS ADMINISTRATION REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Time: 09:30 AM

Dated: 08-05-2023

S.NO.	Name	Designation	Departme	ent	Cell No	E-mail	Signature
01	Abdul Basit	(RROL)-KP	(RROY).	- KP			Sant
02	Janat Gul	DG	POMA-	KP			
03	Muhammad kmin	Dir (DRM)	POMA-	CP			04:
04	Salub zada Saleem	DD DEM	V	2	0333-9419622	-	Jans
05	HAMMAD AFRIDI	AD ORM	11	1	0332-9575544	hafridi 1900 Comil.	
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07	Uluhammad Rahman	Director Re	lif PDL	la.ka	0345935500	2	
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MEETING WITH DISTRICTS ADMINISTRATION REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Time: 09:30 AM

Dated: 08-05-2023

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10	ATIF AFRIDI	AAC-HANGU	DISTE HOMIN	0333-9893913	afridiatif 93@gmail.com	, Ack
11	Magar Ali Shah	MIS officer	PDMA	0346-471966	wyarali (chambles)	June
12	Amir Khan	AD(R), Peshawar	'		Kamir-Luvites (agmai).	Akhan.
13	MIAN ADIC ZAHOOR.	AD POMA	PDMA.		adols.centolua & 109.5	1
14	Muhammad Alin.	Harry une A. D. C. Peleif	Distli Admin		m. wilpmægn	1.1.
15	Angum Zin	Assistant-	POMP	0314-9696328	Anju- 30 G	271
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MEETING WITH DISTRICTS ADMINISTRATION REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Time: 09:30 AM

Dated: 08-05-2023

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MEETING WITH DISTRICTS ADMINISTRATION REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Time: 09:30 AM

Dated: 08-05-2023

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MEETING WITH DISTRICTS ADMINISTRATION REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Time: 09:30 AM

Dated: 08-05-2023

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33	Ds Abdul wajid	ADC(Ta)		92928286	egmaila drabdul wajid fia	m 1
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37	M. Zalid	BADC(R)	Maleland	0342-1847847		of and
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MEETING WITH DISTRICTS ADMINISTRATION REGARDING PREPARATION / PLANNING FOR MONSOON CONTINGENCY PLAN (MCP) 2023.

Time: 09:30 AM

Dated: 08-05-2023

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ANNEXURE - V

RESOURCE MAPPING OF RESCUE 1122 KHYBER PAKHTUNKHWA (2023)

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Fire Vehicles	2		1			ı		2	1	0	0	0	0	2	0	0	0	0	0	1	2
Health Ambulance	14			•			•	0	1	0	4	1	1		0	0	1	0	1	0	11
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SHI Contact No.	0346-9818846	0346-9818846						0304-9296365	0302-8832769	0301-3378255	0301-3378255	0301-3378255	0301-3378255	0334-8845770	0333-0131122	0344-9399747	0333-9746241	0332-9501335	0316-3532490	0310-6129071	
Station SHI Name	Mr. Abdul Hakeem	Mr. Abdul Hakeem						Mr. Haider Hayat	Mr. Muhammad Riaz	Mr. Noor Ullah (Acting charge)	Mr. Muhammad Ibrar Tariq	Mr. Amjad Pervez	Mr. Nisar Ullah Khan	Mr. Sami Ullah Khan	Mr. Waheed Ullah Khan	Mr. Karamat	Mr. Naveed				
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Mr. Yasir Akbar	Mr. Suleman Khan	Mr. Ihsan Ud din Khattak	Mr. Zohaib Jamal	Mr. Muhammad Zahid	Mr. Amin ur Reman	Mr. Tariq Aziz	Mr. Alam Zeb	Mr. Muhammad Abbas	Mr. Darya Khan	Mr. Muhammad Atif	Engr. Naveed Akhtar	Mr. Amir Khan	Mr. Sajjad	Mr. Masood Barqi	Mr. Ahsan	Mr. Jawad	Mr. Jamil	Mr. Subhan	Mr. Waleed	Mr. Saifullah	Mr. Obaid	Mr. Sajjawal	Mr. Abu Bakar	Mr. Javed
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ANNEXURE - VI

MINIMUM STANDARDS FOR PROVISION OF RELIEF AND STANDARD NFI KIT PER FAMILY

S.No.	Name of Items	Details
1	Tents*	1 per each HH
2	Plastic Sheets*	1 per each HH
3	Blankets*	2 per each HH
4	Tarpaulin*	1 per 10 people
5	Kitchen Set	1 per each HH
6	Hygiene Kits	1 per each HH
7	Jerry Cans	2 per each HH
8	Buckets	2 per each HH
9	Stoves	1 per each HH
10	Drinking Water Population	No. of HH x 6
(*Approx	$1/3^{rd}$ of affected population expected to live in can	nps)

STANDARD FOOD PACKAGE PER FAMILY

S.No.	Name of Items	Quantity		
1	Wheat Flour	40 kg		
2	Matches	4 Nos.		
3	Rice (Sella No.1)	5 kg		
4	Dry Milk Factory Pack	910 gm		
5	Ghee	3 kg		
6	Sugar in Pack	3 kg		
7	Dall Channa (Packed)	2 kg		
8	Dal Mong (Washed)	1 kg		
9	Dal Masoor	1 kg		
10	Chili Powder	200 gm		
11	Iodized Salt	800 gm		
12	Mineral Water (Nestle)	10 Bottles		
13	Tea	476 gm		

STANDARD HYGIENIC KIT/ DIGNITY KIT FOR WOMEN

S.No.	Name of Items	Quantity	Size
1	Soap (Anti-bacterial)	30 Bars	115 gms each
2	Towel	2	115 x 69 cm
3	Laundry Soup	4 Bars	250 gms
4	Bucket (preferably with lid)	1	20 liters
5	Soap Case	1	-
6	Lota	1	Medium Size
7	Mug with Handle	1	1 liter
8	Mosquito Net	2	-
9	Sanitary Cloth (Dark Color)	5 Pieces	1.5 Meter each
10	Nail Cutter	1 Piece	2.75" (preferred)
11	Combs	2 Pieces	7"
12	Lice Comb	1 Piece	Medium Size

SHELTER SPECIFICATION

S.No.	Item	Specification
1	Tents	Size 4 x 5 meter, Double Ply Single fold, water proof, rot proof, central height: 2.20 meter, Wall Height 0.90 meter, Upper Ply PVC coated cloth on both sides (450 GSM), Lower Ply cotton canvas 450 GSM, color natural white not dyed, Plastic Ground Sheet of 4.5 x 5.5 meter, 2 doors, 1 window and 1 ventilator on each side of wall, Iron poles andpillars of 18 gauge pipe with all accessories, Shipping Weight 75 KG approx., Packing (tent poles and Accessories in 1 bundle). ISO 9001 certified. The <i>words</i> , " <i>PDMA Khyber Pakhtunkhwa</i> " with its official logo must be indelibly printed with green color on both sides at the middle for maximum visibility having size of 1x2 meter.

NON-FOOD ITEMS (NFI's) SPECIFICATION

S.No.	Name of Items	Specification
1	Plastic Mat	8 x10 Feet (Nylon Carpet), Multicolor, Weight 4 kg
2	Bucket	20 Liters Plastic Made (Local Good Quality)
3	Jerry Cans	White Color Food Graded 10 Liters (Local Plastic Made) 12x9 Feet A Grade
4	Kitchen Set	6 Pieces Each (Bowl, Spoon, Mug local made Steel)
5	Mosquito Net	Good Quality (Single Bed Size)

ANNEXURE - VII

SPECIFIC ACTIONS AND ADVISORIES TO PROVINCIAL AND FEDERAL LINE DEPARTMENTS FOR PREPERATION OF MONSOON (2023) IN KHYBER PAKHTUNKHWA



PDMA

Provincial Disaster Management Authority Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar

www.pdma.gov.pk 091-9219628



Dated: 13-06-2023.

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

The Secretary to Government of Khyber Pakhtunkhwa, Communication and Works Department.

Subject: MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that due to unique geography and terrain, the Province of Khyber Pakhtunkhwa is vulnerable to various monsoon hazards including hydro metrological and geological, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders for the upcoming monsoon season 2023. In this regard the following preventive / mitigative measures are requested to be taken on priority basis before the onset of monsoon please:

- 1. Maintenance and Repair (M&R) of vulnerable infrastructures where necessary.
- 2. Plugging gaps in maintenance and repair (M&R) processes and funds.
- Allocation and release of M&R funds to districts based on the vulnerability of respective district.
- 4. Arrangements of pre-qualified / framework contracts for various necessary works and immediate restoration of roads in case of any event during monsoon.
- 5. Preparation of sector specific monsoon contingency plan.

I am further directed to state that an early action in the matter is solicited please.

Deputy Director (DRM) PDMA

Copy of the above is forwarded for information to the:

- 1. Chairman NDMA, Islamabad.
- 2. All Commissioners, Khyber Pakhtunkhwa.
- 3. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 4. All Deputy Commissioners, Khyber Pakhtunkhwa.
- 5. Director Response, NDMA, Islamabad.
- 6. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 7. PA to Director General, PDMA Khyber Pakhtunkhwa.

Deputy Director (DRM)



Provincial Disaster Management Authority Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar

www.pdma.gov.pk



No. PDMA/KP/AD(DRM)/MCP/1-38/2023

Dated: 13-06-2023.

To

The Secretary to Government of Khyber Pakhtunkhwa, Irrigation Department.

Subject:

MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that due to unique geography and terrain, the Province of Khyber Pakhtunkhwa is vulnerable to various monsoon hazards including hydro metrological and geological, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders for the upcoming monsoon season 2023. In this regard the following preventive / mitigative measures are requested to be taken on priority basis before the onset of monsoon please:

- 1. Complete the necessary construction / repair of check dams and flood protection walls / structures and sort out gaps in M&R process and funds.
- Vulnerability assessment of infrastructure and allocation of M&R funds based on 2. vulnerability of each district.
- 3. Ensuring implementation of Water Act 2020 in coordination with district administration and ensure removal of encroachments from canals, flood plains, waterways and river banks.
- Desilting of canals and disposal of waste from the site. 4.
- 5. Preparation of sector specific monsoon contingency plan.

I am further directed to state that an early action in the matter is solicited please.

Yours faithfully

Deputy Director (DRM) **PDMA**

Copy of the above is forwarded for information to the:

- 1. Chairman NDMA, Islamabad.
- 2. All Commissioners, Khyber Pakhtunkhwa.
- 3. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 4. All Deputy Commissioners, Khyber Pakhtunkhwa.
- 5. Director Response, NDMA, Islamabad.
- 6. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 7. PA to Director General, PDMA Khyber Pakhtunkhwa.

Deputy Director (DRM)

PDMA



Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



No. PDMA/KP/AD(DRM)/MCP/1-38/2023

Dated:13-06-2023.

To

The Secretary to Government of Khyber Pakhtunkhwa, Public Health Engineering Department.

Subject:

MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that the Province of Khyber Pakhtunkhwa is vulnerable to various monsoon hazards including hydro metrological and geological due to its unique geography and terrain, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders for the upcoming monsoon season 2023. In this regard the following preventive / mitigative measures are requested to be taken on priority basis well before the onset of monsoon season please:

- 1. Mitigative / relief measures for ensuring availability of clean drinking water in case of any flooding event.
- Measures for timely completion and protection of drinking water supply and sanitation schemes in each district before the upcoming monsoon season.

I am further directed to state that an early action in the matter is solicited please.

Sar

Yours faithfully

Deputy Director (DRM) PDMA

Copy of the above is forwarded for information to the:

- 1. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 2. Chairman NDMA, Islamabad.
- 3. Director Response, NDMA, Islamabad.
- 4. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 5. PA to Director General, PDMA.

Deputy Director (DRM)



Provincial Disaster Management Authority Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar

www.pdma.gov.pk 091-9219628



Dated: 13-06-2023.

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

The Secretary to Government of Khyber Pakhtunkhwa,

Local Government, Elections and Rural Development Department.

Subject:

MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that due to unique geography and terrain, the Province of Khyber Pakhtunkhwa is vulnerable to various monsoon hazards including hydro metrological and geological, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders for the upcoming monsoon 2023. In this regard the following preventive / mitigative measures are requested to be taken on priority basis well before the onset of monsoon 2023 please:

- 1. To chalk out vulnerable places / populations in major urban cities regarding urban flooding and take all necessary measures for minimizing the impacts of urban flooding.
- 2. Prepositioning of all necessary equipments and resources at the most vulnerable places.
- To carryout survey of bill boards and remove / replace those which are in dilapidated conditions and are posing as hazards, to avoid any untoward events during monsoon season.
- Mitigation measures for urban flooding including but not limited to clearing of choked sewerage / drainage channels and removal of waste from the site.
- 5. Implementation of building codes in urban & rural areas.
- 6. Sharing data of M&R funds, sorting out gaps in M&R process and funds, list of machinery and its condition in each district.
- 7. Mobilizing of TMAs for planning / action for monsoon 2023.
- 8. Activation of Control Room and sharing its particulars / contacts with PDMA for linking with Provincial Emergency Operation Center (PEOC), PDMA.

I am further directed to state that an early action in the matter is solicited please.

Yours faithfully

Deputy Director (DRM)
PDMA

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- 1. Chairman NDMA, Islamabad.
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- 3. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 4. All Deputy Commissioners, Khyber Pakhtunkhwa.
- 5. Director Response, NDMA, Islamabad.
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- 7. PA to Director General, PDMA Khyber Pakhtunkhwa.

Deputy Director (DRM) PDMA



Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



Dated: 13-06-2023.

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

The Secretary to Government of Khyber Pakhtunkhwa, Sports, Culture, Tourism, Archeology, Museum & Youth Affairs Department.

Subject:

MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that due to unique geography and terrain, the Province of Khyber Pakhtunkhwa is vulnerable to various monsoon hazards including hydro metrological and geological, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders for the upcoming monsoon season. In this regard the following preventive / mitigative measures are requested to be taken on priority basis well before the onset of monsoon season 2023 please:

- Preparation of sector specific monsoon contingency plan including but not limited to resource mapping, coordination mechanism, tourist information centers, safe evacuation routes.
- Gathering data through tourist facilitation centers like number of tourists and vehicles enter that each district and sharing the same with Provincial Emergency Operation Center (PEOC), PDMA on daily basis during peak tourism season.
- Activation of Control Room and linking the same with Provincial Emergency Operation Center (PEOC), PDMA.
- 4. Mobilization / awareness campaign for tourists about ensuring cleanliness & avoiding littering on Tourist spots.
- 5. Issuing alerts for tourist regarding weather forecast, land sliding and flood prone areas.
- 6. Share the list of tourist information centers and rescue stations.

I am further directed to state that an early action in the matter is solicited please.

Yours faithfully

Deputy Director (DRM) PDMA

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- 2. All Commissioners, Khyber Pakhtunkhwa.
- 3. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 4. All Deputy Commissioners, Khyber Pakhtunkhwa.
- 5. Director Response, NDMA, Islamabad.
- 6. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 7. PA to Director General, PDMA Khyber Pakhtunkhwa.

Deputy Director (DRM)

PDMA



Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



No. PDMA/KP/AD(DRM)/MCP/1-38/2023

Dated:13-06-2023.

To

The Secretary to Government of Khyber Pakhtunkhwa, Minerals Development Department.

Subject: MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that the Province of Khyber Pakhtunkhwa is vulnerable to various hydro metrological and geological events due to its unique geography and terrain, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders. In this regard the following preventive / mitigative measures are requested to be taken on priority basis please:

1. Proper check & balance on sliding & blasting of mines and minerals.

I am further directed to state that an early action in the matter is solicited please.

Yours faithfully

Deputy Director (DRM) PDMA

Copy of the above is forwarded for information to the:

- 1. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 2. Chairman NDMA, Islamabad.
- 3. Director Response, NDMA, Islamabad.
- 4. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 5. PA to Director General, PDMA.

Deputy Director (DRM)
PDMA



Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



Dated: 13-06-2023.

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

The Chief Executive Officer, PESCO, Peshawar.

Subject: MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that due to unique geography and terrain, the Province of Khyber Pakhtunkhwa is vulnerable to various monsoon hazards including hydro metrological and geological, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders for the upcoming monsoon season 2023. In this regard the following preventive / mitigative measures are requested to be taken on priority basis well before the onset of monsoon season please:

- 1. Repair and maintenance of electricity wires / towers etc.
- 2. Cutting of trees reaching the high transmission wires.
- 3. Fixation of hanging wires in crowded streets / localities.
- 4. Activation of Control Room and sharing data with Provincial Emergency Operation Center (PEOC), PDMA.
- 5. Preparation of sector specific monsoon contingency plan.

I am further directed to state that an early action in the matter is solicited please.

Yours faithfully

Deputy Director (DRM) **PDMA**

Copy of the above is forwarded for information to the:

- 1. Chairman NDMA, Islamabad.
- 2. Chairman WAPDA, Islamabad.
- 3. All Commissioners, Khyber Pakhtunkhwa.
- 4. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 5. All Deputy Commissioners, Khyber Pakhtunkhwa.
- 6. Director Response, NDMA, Islamabad.
- 7. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 8. PA to Director General, PDMA Khyber Pakhtunkhwa. Deputy Director (DRM)

PDMA



Provincial Disaster Management Authority

Sector-2, Phase-V, Near RMI Hospital, Hayatabad, Peshawar www.pdma.gov.pk 091-9219628



Dated: 13-06-2023.

No. PDMA/KP/AD(DRM)/MCP/1-38/2023

To

The General Manager, National Highway Authority, Peshawar.

Subject:

MITIGATION MEASURES FOR UP COMING MONSOON SEASON 2023.

Dear Sir,

I am directed to refer to the subject noted above and to state that due to unique geography and terrain, the Province of Khyber Pakhtunkhwa is vulnerable to various monsoon hazards including hydro metrological and geological, while the climate changes have further increased the vulnerability of the Province. Keeping in view the recent changes in weather pattern more coordinated efforts for prevention, mitigation and preparedness are required by all stakeholders for the upcoming monsoon season 2023. In this regard the following preventive / mitigative measures are requested to be taken on priority basis well before the onset of monsoon season please:

- 1. Assessment of vulnerable sites along the main highways.
- 2. Maintenance and repairing of highways where required.
- 3. Registration / renewal of pre- qualified firms that can be engaged immediately for restoration of roads / bridges in case of any event during monsoon season.
- 4. Activation of control room and linking the same with Provincial Emergency Operation Center (PEOC), PDMA.
- 5. Preparation of sector specific monsoon contingency plan.

I am further directed to state that an early action in the matter is solicited please.

Class

Yours faithfully

Deputy Director (DRM) PDMA

Copy of the above is forwarded for information to the:

- 1. Chairman NDMA, Islamabad.
- 2. Chairman NHA, Islamabad.
- 3. All Commissioners, Khyber Pakhtunkhwa.
- 4. PSO to Chief Secretary, Khyber Pakhtunkhwa.
- 5. All Deputy Commissioners, Khyber Pakhtunkhwa.
- 6. Director Response, NDMA, Islamabad.
- 7. PS to Secretary RR&SD, Khyber Pakhtunkhwa.
- 8. PA to Director General, PDMA Khyber Pakhtunkhwa.

Deputy Director (DRM)

PDMA

ANNEXURE - VIII

IDENTIFIED CAMP SITES FOR EFFECTED POPULATION IN KHYBER PAKHTUNKHWA (2023)

Division	District	Tehsil	Evacuation Center and its detail	Location
Hazara	Mansehra	Mansehra	Regional Institute for Teacher Education Open space = 30 Kanal Rooms = 70 Tents capacity = 600 No. of people to be accommodated = 3350	Main Shahrah e Resham, Near Ghazi Kot Town Ship, Mansehra.
			Govt Post Graduate College, Mansehra Open space = 80 Kanal Rooms = 100 Tents capacity = 16,00 No. of people to be accommodated = 8,500	Labor Kot College Doraha, Mansehra
		Balakot	Govt High School Balakot City Open space = 04 Kanal Rooms = 28 Tents capacity = 80 No. of people to be accommodated = 540	Mansehra Naran Road
			2. Govt Degree College Balakot Open space = 70 Kanal Rooms = 55 Tents capacity = 1,400 No. of people to be accommodated = 7,275	Hassa, Mansehra Naran Road
		Oghi	Govt Degree College for Boys, Oghi. Open space = 90 Kanal Rooms = 45 Tents capacity = 1,800 No. of people to be accommodated = 9,225	College Road Oghi
			2.Govt English Medium Secondary School, Oghi Open space = 36 Kanal Rooms = 46 Tents capacity = 720 No. of people to be accommodated = 3,830	Main Battagram Road.
	Battagram	Battagram	2.Govt Degree College Battagram Open space = 65 Kanal Rooms = 52 Tents capacity = 1,100 No. of people to be accommodated = 5,760	College Road, Shahrah e Resham, Battagram
			Govt Higher Secondary School, Thakot Open space = 20 Kanal Rooms = 26 Tents capacity = 300 No. of people to be accommodated = 1,630	Karakoram Highway Thakot

	Alai	Sports Ground, Alai Open space = 49 Kanal Tents capacity = 980	Kasai Bana, Kwand Road Alai
Torghar	Hassan Zai	No. of people to be accommodated = 4,900 Sports Ground, Hassan Zai Open space = 35 Kanal Tents capacity = 700 No. of people to be accommodated = 3,500	Thakot Darband Road
	Pattan	Govt Degree College Pattan Open space = 35 Kanal Rooms = 32 Tents capacity = 700 No. of people to be accommodated = 3,660	WAPDA Colony Road, Pattan
Kohistan		Govt. Higher Secondary School, Pattan Open space = 07 Kanal Rooms = 40 Tents capacity = 140 No. of people to be accommodated = 900	Tehsil Road, Main Bazar Pattan
Lower		Govt High School, Jijal Open space = 08 Kanal Rooms = 22 Tents capacity = 180 No. of people to be accommodated = 1,010	Karakorum Highway, Jijal
		Govt Higher Secondary School, Chakai Open space = 08 Kanal Rooms = 26 Tents capacity = 180 No. of people to be accommodated = 1,030	Karakorum Highway, Chakai
Kohistan Upper	Dassu	Govt Centennial Model High School and Adjacent Ground, Dassu. Open space = 10 Kanal Rooms = 18 Tents capacity = 200 No. of people to be accommodated = 1,090	Karakorum Highway Road, Dassu City
		WAPDA Colony, Dassu Open Space = 100 Kanal Tent Capacity = 2,000 No. of people to be accommodated = 9,000	WAPDA Colony Link Road, Dassu
Kolai	Batera	Govt Higher Secondary School, Batera Open space = 10 Kanal Rooms = 26 Tents capacity = 200 No. of people to be accommodated = 1,130	Batera Bisham Road, Batera
Pallas	Pallas	Govt Girls High School, Palas Open space = 04 Kanal Rooms = 18 Tents capacity = 80 No. of people to be accommodated = 490	Ziarat Road, Palas

Open space = 15 Kanal Tents capacity = 300 No. of people to be accommodated = 1,500 Pak China Fertilizer Colony, Haripur Open space = 25 Kanal Rooms = 300 Tents capacity = 500 No. of people to be accommodated = 4,000 Afghan Refugee Camp Basso Road i. Open space = 200 Kanal li. Tents capacity = 3,600 iii. No. of people to be accommodated = 1,800 Govt High School, Panian Open space = 14 Kanal Rooms = 16 Tents capacity = 220 No. of people to be accommodated = 1,180 Padhana Camp Site Open space = 40 Kanal Halls = 3 Tents capacity = 600 No. of people to be accommodated = 3,250 WAPDA Ground (Infront of AC Office) Open space = 30 Kanal Tents capacity = 600 No. of people to be accommodated = 3,000 Govt Degree College, Ghazi Open space = 80 Kanal Rooms = 30 Tents capacity = 1400 No. of people to be accommodated = 7,150 3. Sports Stadium Hussan Pur Open space = 80 Kanal Tents capacity = 1400 No. of people to be accommodated = 4,000 4. Govt High School, Ghazi Open space = 10 Kanal Tents capacity = 200 Rooms = 40 No. of people to be accommodated = 4,000 4. Govt High School, Ghazi Open space = 10 Kanal Tents capacity = 200 Rooms = 40 No. of people to be accommodated = 1,200 2. Govt High School, Khan Pur Open space = 20 Kanal Khan Pur			W'111'C D '11' D 1	
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		3. Govt: Degree College Khanpur Open space = 40Kanal Rooms = 35 Tents capacity = 700 No. of people to be accommodated = 3,675	GT Road, Jabbri
		1. Govt: High School No3 Abbottabad Open space = 15 Kanal Rooms = 15 Tents capacity = 240 No. of people to be accommodated = 1,275	Eidgah Road Abbottabad
		2. Govt: Post Graduate College No 1 Abbottabad Open space = 75 Kanal Rooms = 40 Tents capacity = 1,400 No. of people to be accommodated = 7,200	College Road Abbottabad
	Abbottabad	3. Cricket Stadium Nawan shehr, Abbottabad Open space = 140 Kanal Tents capacity = 2,400 No. of people to be accommodated = 12,000	Muree Road, Abbottabad
		4. Cricket Ground Township Nawan shehr Open space = 20 Kanal Tents capacity = 400 No. of people to be accommodated = 2,000	Township Road Mandrach Nalai, Abbottabad
Abbottabad		5. Govt: Post Graduate College, Mandian Open space = 70 Kanal Rooms = 30 Tents capacity = 1,300 No. of people to be accommodated = 6,650	College Road Mandian, Abbottabad
		Khanaspur Cricket Stadium, Ayubia Open space = 70 Kanal Tents capacity = 1,200 No. of people to be accommodated = 6,000	Ayubia Road
	Havelian	Govt Degree College, Havelian Open Space = 50 Kanal Rooms = 30 Tents Capacity = 900 No of people to be accommodated = 4,650	Kiala Road Havelian
		Abbottabad University of Science & Technology, Havelian Open Space = 70 Kanal Tents Capacity = 1,300 No of people to be accommodated = 6,500	Kokal Barseen Road, Havelian

	Charsadda	Charsadda Shabqadar	Govt Post Graduate College Charsadda Open space = 90 Kanal Rooms = 44 Tents capacity = 1,800 No. of people to be accommodated = 9,220 Govt Degree College Shabqadar Open space = 30 Kanal Rooms = 22 Tents capacity = 600 No. of people to be accommodated = 3,110	Prang Road Charsadda Battagram Road, Shabqadar
		Pabbi	Govt Degree College, Tangi Open space = 90 Kanal Rooms = 57 Tents capacity = 1,800 No. of people to be accommodated = 9,285	College Road Tangi
Peshawar			University Of Engineering & Technology, Jalozai Campus Open space = 2,500 Kanal Tents capacity = 40,000 No. of people to be accommodated = 250,000	Cherat Road Jalozai
	Nowshera	Nowshera	Government Technical College Open space = 50 Kanal Rooms = 100 Tents capacity = 1,000 No. of people to be accommodated = 5,500	Nowshera Mardan Road
		rvowshera	Benazir Complex, Risalpur Open space = 150 Kanal Rooms = 20 Tents capacity = 3,000 No. of people to be accommodated = 15,100	Bara Banda link Road Risalpur, Nowshera.
		Jehangira	Govt: High School, Khairabad Open space = 40 Kanal Rooms = 33 Tents capacity = 800 No. of people to be accommodated = 4,165	Nizam Pur Road Khairabad
			2. Govt. Commerce College, Manki Sharif Open space = 45 Kanal Rooms = 25 Tents capacity = 900 No. of people to be accommodated = 4,635	Manki Sharif Nowshera Road
		Peshawar	Govt Girls Degree College, Chagharmatti Open space = 40 Kanal Rooms = 44 Tents capacity = 1,800 No. of people to be accommodated = 3,970	Landi Sarak Charsadda Road

		Govt Degree College Naguman Open space = 10 Kanal Rooms = 50 Tents capacity = 200 No. of people to be accommodated = 1,250	Naguman Charsadda Road
		Zamung Kor Open space = 10 Kanal Rooms = 126 Tents capacity = 200 No. of people to be accommodated = 1,630	Khazana Charsadda Road
		Ja1.Govt Higher Secondary School, Ghalanai Open space = 120 Kanal Rooms = 25 Tents capacity = 1,100 No. of people to be accommodated = 5,625	Colony Road Ghalanai Head Quarter
	Halimzai	Sports Complex Ghalanai Open space = 70 Kanal Tents capacity = 1,350 No. of people to be accommodated = 6,750	Main Bajaur Mohmand Road, Ghalanai
		Govt Degree College Chanda Open space = 35 Kanal Rooms = 60 Tents capacity = 620 No. of people to be accommodated = 3,400	Dawat Kor Road Chanda Ghalanai
Mohmand	Ekka Gund	Govt: Degree College, Ekka Gund Open space = 200 Kanal Rooms = 100 Tents capacity = 3,700 No. of people to be accommodated = 19,000	Shabqadar Road Ekka Gund
	Safi	Govt Degree College, Lakaro Open space = 20 Kanal Rooms = 15 Tents capacity = 400 No. of people to be accommodated = 2,075	Bajaur Mohmand Road Lakaro
	Sall	Tehsil Headquarter Hospital, Mamad Gut Open Space = 80 Kanal Spare Rooms = 30 Tent Capacity = 1,500 No of people to be accommodated = 7,650	Mamad Gut Chamarkand Road
Khyber	Bara	Govt Degree College, Kohi Sher Haider Open space = 50 Kanal Rooms = 30 Tents capacity = 950 No. of people to be accommodated =4,900	Tera Bara Road

			Govt Girls Higher Secondary School, Kalanda, Aka Khel Open space = 40 Kanal Rooms = 23 Tents capacity = 800 No. of people to be accommodated = 4,115	FR road Bara
		Jamrud	Jamrud Cricket Ground Open space = 80 Kanal Tents capacity = 1,600 No. of people to be accommodated = 8,000	Peshawar Jamrud Road
		Landi Kotal	Govt Degree College, Landi Kotal & Adjacent Rehman Baba Tomb Ground i. Open Space = 500 Kanal Rooms = 20 Tents Capacity = 10,000 No of People to be accommodated = 47,500	Peshawar Landi Kotal Road
		Adenzai	University of Malakand Ground Open space = 254 Kanal Tents capacity = 5,080 No. of people to be accommodated =25,400	Chakdara Ramda/University Road
			2. Govt Post Graduate College, Gul Abad Open space = 40 Kanal Rooms = 30 Tents capacity = 800 No. of people to be accommodated = 4,150	Laram Qilla Link Road, Gul Abad
Molokond	Dir Lower	Lal Qila	Govt Degree College, Lal Qila Open space = 20 Kanal Rooms = 42 Tents capacity = 400 No. of people to be accommodated = 2,210	College Road, Maidan
Malakand		Timergara	Govt Degree College Timergara Open space = 80 Kanal Rooms = 53 Tents capacity = 1,600 No. of people to be accommodated = 8,265	Maidan Road, Haji Abad, Timergara Road
		Samar Bagh	Govt Degree College, Samar Bagh Open space = 35 Kanal Rooms = 16 Tents capacity = 700 No. of people to be accommodated = 3,580	Samarbagh Timergara Road
		Dargai	Sports Stadium, Sakhakot. Open space = 30 Kanal Tents capacity = 600 No. of people to be accommodated = 3,000	GT Road Sakhakot

		Wari	Govt Technical College Wari Open space = 45 Kanal Rooms = 55 Tents capacity = 900 No. of people to be accommodated = 4,775	Main Wari Bazar, Dir Chitral Road
	Dir Upper	Dir	Sports Stadium Dir Open space = 35 Kanal Tents capacity = 700 No. of people to be accommodated = 3,500	Dir Chitral Road, Main Dir Bazar
		Sheringal	Shaheed Benazir Bhutoo University Ground Open space = 40 Kanal Tents capacity = 800 No. of people to be accommodated = 4,000	Dir Kumrat Road
		Chitral	Polo Ground Chitral Open space = 130 Kanal Tents capacity = 2,600 No. of people to be accommodated = 13,000	Peshawar Chitral Road
	Chitral Lower	Cilitai	2. Govt Centennial Model School Ground Open space = 80 Kanal Tents capacity = 1,600 No. of people to be accommodated = 8,000	Shahi Masjid Road, Chitral
		Drosh	Col Murad Stadium Open space = 80 Kanal Tents capacity = 1,600 No. of people to be accommodated = 8,000	Chitral Peshawar Road, Drosh
			1. Govt: Higher Secondary School Jowar Open space = 60 Kanal Rooms = 19 Tents capacity = 1,200 No. of people to be accommodated = 6.095	Main Barikot Daggar Road
	Bunner	Daggar	2. Govt: Higher Secondary School Jawkhela Open space = 60 Kanal Rooms = 22 Tents capacity = 1,200 No. of people to be accommodated = 6,110	Daggar Pir Baba Road
		Gagra	Govt Higher Secondary School Gagra Open space = 40 Kanal Rooms = 22 Tents capacity = 800 No. of people to be accommodated = 4,110	Gagra Tehsil, Road
		Gagra	Govt Degree College Daggar, Open space = 80 Kanal Rooms = 32 Tents capacity = 1,600 No. of people to be accommodated = 8,160	Dewana Baba Road

		Mandanr	Captain Waqas Shaheed Stadium, Mandanr Open space = 50 Kanal Tents capacity = 1,000 No. of people to be accommodated = 5,000	Chamla Road, Mandanr
		Babuzai	Govt: Jehanzeb College, Mingora Open space =100 Kanal Rooms = 50 Tents capacity = 2,000 No. of people to be accommodated = 10,250	Saidu Sharif Road, Mingora
		BariKot	Govt: Higher Secondary School, Barikot Open space =45 Kanal Rooms =22 Tents capacity = 900 No. of people to be accommodated = 4,610	Peshawar Mingora Road, Barikot
			Govt: High and Higher Secondary School, Kalam Open space = 20 Kanal Rooms =32 Tents capacity = 400 No. of people to be accommodated = 2,160	Tehsil Road, Kalam
	Swat	Bahrain	Govt High School Bahrain Open space = 02 Kanal Rooms = 20 Tents capacity = 40 No. of people to be accommodated = 300	Tehsil Road, Bahrain
	Swai		Govt: higher Secondary School, Madyan Open space = 08 Kanal Rooms = 25 Tents capacity = 160 No. of people to be accommodated = 925	School Road Madyan
		Kwaza Khela	Govt Degree College Madyan Open space = 40 Kanal Rooms = 30 Tents capacity = 800 No. of people to be accommodated = 4,150	Madyan Mingora Road
		Matta	Govt: Post Graduate College Matta Open space = 80 Kanal Rooms = 36 Tents capacity = 1,600 No. of people to be accommodated = 8,180	Matta Mingora road
		Kabal	Govt: Higher Secondary School, Kabal Open space =40 Kanal Rooms = 26 Tents capacity = 800 No. of people to be accommodated = 4,130	Police Line Kabal

		Govt: Dr. Khan Shaheed Degree College, Kabal Open space = 20 Kanal Rooms = 16 Tents capacity = 400 No. of people to be accommodated = 2,100	Kabal Mingora Road
	Mingora	Govt High School No 1, Mingora Open space = 15 Kanal Rooms = 26 Tents capacity = 300 No. of people to be accommodated = 1,630	Airport Road, Banr Mingora
		Govt: Degree College, Alpuri Open space = 20 Kanal Rooms = 43 Tents capacity = 400 No. of people to be accommodated = 2,215	College Road, Alpuri
		Govt: High School, Derai Open space =05 Kanal Rooms = 16 Tents capacity = 100 No. of people to be accommodated = 580	Alpuri Bisham Road, Derai
	Alpuri	Govt: Higher Secondary School and Primary school, Shahpur Open space = 04 Kanal Rooms = 21 Tents capacity = 80 No. of people to be accommodated = 505	Shahpur Karora Road, Shahpur
Shangla		Govt: High School, Kuz Kana Open space = 02 Kanal Rooms = 12 Tents capacity = 40 No. of people to be accommodated = 260	Shahpur Karora Road, Kuz Kana
		Govt: High School, Karora Open space = 02 Kanal Rooms = 21 Tents capacity = 40 No. of people to be accommodated = 305	Alpuri Bisham Road, Karora
	Bisham	Govt Higher Secondary School, Botyal Open Space = 08 Kanal Rooms = 22 Tents Capacity = 160 No. of people to be accommodated = 910	Kurakuram highway, Bisham
	Puran	Govt Degree College Puran Open space = 15 Kanal Rooms = 16 Tents capacity = 300 No. of people to be accommodated = 1,580	Yakh Tangi Puran road

			Govt High School, Puran Open space =10 Kanal Rooms = 14 Tents capacity = 200 No. of people to be accommodated = 1,070	Yakh Tangi Puran road
		Chakesar	Govt: High School, Chakesar Open space = 04 Kanal Rooms = 16 Tents capacity = 80 No. of people to be accommodated = 480	Karora Chakesar, road
		Charesai	Govt Degree College, Chakesar Open space = 20 Kanal Rooms = 21 Tents capacity = 400 No. of people to be accommodated = 2,105	Karora Chakesar, road
		Khar	Sports Complex, Khar Open space =98 Kanal Rooms = 10 Tents capacity = 1,900 No. of people to be accommodated = 9,550	Nawagai Khar Road, Khar
		Nawagai	Govt: Degree College, Khar Open space =80 Kanal Rooms =80 Tents capacity = 1,520 No. of people to be accommodated = 8,000	Munda Khar Road Khar
	Bajaur		Govt Degree College, Nawagai Open space = 200 Kanal Rooms = 47 Tents capacity = 3,600 No. of people to be accommodated = 20,035	Mohmand Nawagai Road, Nawagai
			Govt Degree College Bar khalozai Open space = 80 Kanal Rooms = 20 Tents capacity = 1,500 No. of people to be accommodated = 7,600	Khar Mamund Road, Mamund
		Walland	Govt: high School, Bar Kalozai Open space =60 Kanal Rooms = 15 Tents capacity = 1,100 No. of people to be accommodated = 5,575	Khar Mamund Road, Mamond
		Barang	Govt High School, Ghani Adai Open space =30 Kanal Rooms = 15 Tents capacity = 560 No. of people to be accommodated = 2,875	Khar Barang Road, Khar

		Govt Girls Degree College, Booni Open space = 20 Kanal Rooms = 55 Tents capacity = 360 No. of people to be accommodated = 2,075 Govt: Boys Degree College Booni	Main Chitral Booni Road, Booni
Chitral Upper	Mastuj	Open space = 20 Kanal Rooms = 56 Tents capacity = 360 No. of people to be accommodated = 2,070	Main Chitral Booni Road, Booni
		3 Ghali Ground, Mastuj Open space = 70 Kanal Tents capacity = 1,300 No. of people to be accommodated = 6,500	Main Chitral Booni Road, Booni
	Torkhow	Rural Health Centre, Torkhow Open space = 40 Kanal Tents capacity = 700 No. of people to be accommodated = 3,500	Mulkhow Torkhow Road
		Govt: Degree College, Totakan Open space =80 Kanal Rooms = 100 Tents capacity = 1,500 No. of people to be accommodated = 8,000	Batkhela Totakan Road, Totakan
	Batkhela	Govt Higher Secondary School, Khar Open space = 50 Kanal Rooms = 35 Tents capacity = 950 No. of people to be accommodated = 4,925	Babao Koto Link Road Totakan Batkhela Road
		Zafar Park Batkhela Open space = 50 Kanal Tents capacity = 1,000 No. of people to be accommodated = 5,000	Main Mingora Road, Batkhela
Malakand		Govt: Degree College, Thana Open space = 100 Kanal Rooms = 90 Tents capacity = 1,800 No. of people to be accommodated = 9,450	College Road, Thana
	Dargai	Govt: Post Graduate College, Dargai Open space =70 Kanal Rooms = 50 Tents capacity = 1,250 No. of people to be accommodated = 6,500	College Road, Dargai
	~ gui	Govt: Higher School Heroshah Open space = 20 Kanal Rooms = 18 Tents capacity = 400 No. of people to be accommodated = 2,090	Harichand Dargai Road, Heroshah

			Govt: Degree College, Badraga Open space = 50 Kanal Rooms = 30 Tents capacity = 950 No. of people to be accommodated = 4,900	Badraga Jahazono Dag Road, Badraga
			Govt: Higher Secondary School, Sakhakot Open space = 20 Kanal Rooms = 21 Tents capacity = 400 No. of people to be accommodated = 2,105	Hospital Road, Sakhakot
		Bannu	1. Bannu Sugar Mill Open space =150 Kanal Halls = 04 Tents capacity = 3,000 No. of people to be accommodated = 15,800	Bannu-D.I.Khan Road
			1. Kashu Bridge Open space =1,000 Kanal Tents capacity = 20,000 No. of people to be accommodated = 100,000	Indus High Way Bannu Link Road
	Bannu	Domain	2. Govt Degree College. Landi Jalandar Open space = 1,000 Kanal Rooms =42 Tents capacity = 20,000 No. of people to be accommodated = 100,210	Peshawar D.I.Khan Road
Bannu			3. Govt: Degree College Spina Tangi Open space = 200 Kanal Rooms = 65 Tents capacity = 4,000 No. of people to be accommodated = 20,325	Kohat Bannu Road
		Baka Khel	TDP Camp Baka Khel Open space = 1,600 Kanal Tents capacity = 32,000 No. of people to be accommodated = 160,000	Miranshah Road Baka Khel
	Lakki	Lakki	Govt High Centennial Model School Open space = 12 Kanal Rooms = 46 Tents capacity = 200 No. of people to be accommodated = 1,230	Kacheri Road, Lakki City
	Marwat	Marwat	2. Govt Post Graduate College, Lakki Open space = 110 Kanal Rooms = 100 Tents capacity = 1,600 No. of people to be accommodated = 10,500	Mian Wali Road, Lakki City

			Govt Degree College Landiwah Open space = 30 Kanal Tents capacity = 600 Rooms = 30 No. of people to be accommodated = 3,150	LandiWah Indus HighWay Link Road
			Govt Higher Secondary School, Landiwah Open space = 18 Kanal Tents capacity = 200 Rooms = 30 No. of people to be accommodated = 1,150	LandiWah Indus HighWay Link Road
		Sarai Naurang	1. Govt Degree College, Sarai Naurang Open space = 40 Kanal Rooms = 35 Tents capacity = 750 No. of people to be accommodated = 3,925	Bannu Naurang Road
		Miran Shah	Govt Post Graduate College, Miranshah Open space = 100 Kanal Rooms = 70 Tents capacity = 950 No. of people to be accommodated = 5,100	Mir Ali Miranshah Road, Miranshah
	North Wazristan	Datta Khel	Datta Khel Camp Near Newly Constructed Tehsil Building Open space = 3000 Kanal Tents capacity = 55,000 No. of people to be accommodated = 275,000	Miran Shah Datta Khel Road, Datta Khel
		Mir Ali	Govt Degree and Elementary Teachers Training College,Mir Ali Open space = 50 Kanal Tents capacity = 1,000 No. of people to be accommodated = 5,000	Bannu Miranshah Road, Mirali
		D.I.Khan	1. Sports Complex D.I.Khan Open space = 335 Kanal Tents capacity = 6,700 No. of people to be accommodated = 33,500	Bannu Road D.I.Khan
D.I.Khan	D.I.Khan		Gomal Medical College Ground: Open space = 75 Kanal Tents capacity = 1,500 No. of people to be accommodated = 7,500	Drabin Road D.I.Khan
	21.1211011	Kulachi	Sports Stadium Kulachi Open space = 50 Kanal Tents capacity = 1,000 No. of people to be accommodated = 5,000	Kachri near Kulachi D.I.Khan Road
		Parao	1. Sports Stadium Parao Open space = 40 Kanal Tents capacity = 800 No. of people to be accommodated = 4,000	Indus High Way Parao

		PaharPur	Govt: Degree College, Paharpur Open space = 35 Kanal Rooms = 22 Tents capacity = 700 No. of people to be accommodated = 3,610 Makin Cricket Ground	Pahar Pur D.I.Khan Road
	D.I.Khan	South Waziristan	Open space = 70 Kanal Tents capacity = 1400 No. of people to be accommodated = 7,000	Makin Razmak Road
		Ladha	Govt Degree College, Ladha. Open space = 40 Kanal Rooms = 35 Tents capacity = 750 No. of people to be accommodated = 3,950	Makin Wana Road, Ladha
	South Waziristan	Sarwakai	Moula Khan Surai Hospital, Sarwakai Open space = 35 Kanal Rooms = 25 Tents capacity = 620 No. of people to be accommodated = 3,225	Jandola Wana Road, Sarwakai
		Wana	Wana Cricket Stadium & Adjacent Area Open space= 70 Kanal Tents capacity = 1,300 No. of people to be accommodated = 6,500	Makin Road, Wana
			Govt Higher Secondary School, Gomal Bazar Open space = 13 Kanal Rooms = 23 Tents capacity = 220 No. of people to be accommodated = 1,215	Gomal Tank Road, Gomal
	Tank	Tank	Govt Degree College, Tank Open space = 60 Kanal Rooms = 30 Tents capacity = 1100 No. of people to be accommodated = 5,650	Tank D.I.Khan Road
			Muhajir Camp near Army Fort Open space = 1500 Kanal Tents capacity = 26,000 No. of people to be accommodated = 130,000	Tank South Waziristan Road
			Jehaz Ground Tank City Open space = 750 Kanal Tents capacity = 14,000 No. of people to be accommodated = 70,000	D.I.Khan Tank Raod
Kohat	Kohat	Kohat	Qila Ground, Kohat Open Space = 50 Kanal Tents Capacity = 1,000 No of people to be accommodated = 5,000	Peshawar Chowk, Kohat

			Govt Post Graduate College, Kohat Open Space = 60 Kanal Rooms = 30 Tents Capacity = 1,200 No of people to be accommodated = 6,150	College Road, Kohat
		Lachi	Govt Girls Degree College, Lachi Open Space = 50 Kanal Rooms = 25 Tents Capacity = 1,000 No of people to be accommodated = 5,125	Indus Highway, Lachi
		Upper Orakzai	Govt Degree College Ghiljo Open Space = 50 Rooms = 25 Tents Capacity = 1,000 No of People to be accommodated = 5,125	Ghiljo Khadizai Road
Ora	Orakzai	Otakzai	Sports Stadium Ghiljo Open Space = 1,000 Kanal Tents Capacity = 20,000 No of people to be accommodated = 100,000	Ghiljo Dabari Road
		Lower Orakzai	Kalaya Sports Ground Open Space = 80 Kanal Tents Capacity = 1,600 No of people to be accommodated = 8,000	Kalaya Ghiljo Road
			Sports Complex, Hangu Open Space = 60 Kanal Tents Capacity = 1,200 No of people to be accommodated = 6,000	Hangu Thall Road, Hangu
			Govt Degree College, Hangu Open Space = 80 Kanal Rooms = 70 Tents Capacity = 1,500 No of people to be accommodated = 7,850	Hangu Thall Road, Hangu
Han	ngu	Hangu	Govt Girls Degree College & Adjacent Railway Ground, Hangu Open Space = 1,500 Kanal Rooms = 45 Tents Capacity = 28,000 No of people to be accommodated = 140,200	Bypass Road Hangu
			 Khwaja Khizar (Forest Land) i. Open Space = 1,500 Kanal ii. Tents Capacity = 28,000 iii. No of people to be accommodated = 140,000 	Kohat Hangu Road

	The H	Govt Higher Secondary School, Doaba Open Space = 40 Kanal Rooms = 32 Tents Capacity = 800 No of people to be accommodated = 4,160	Hangu Thall Road, Doaba
	Thall	Govt Degree College, Thall Open Space = 300 Kanal Rooms = 30 Tents Capacity = 5,600 No of people to be accommodated = 30,150	Hanu Thall Road, Thall
		Govt Degree College, Parachinar Open Space = 60 Kanal Rooms = 90 Tents Capacity = 1,200 No of people to be accommodated = 6,450	Sadda Parachinar Road, Parachinar
	Kurram Upper	Sports Stadium, Parachinar Open Space = 70 Kanal Tents Capacity = 1,400 No of people to be accommodated = 7,000	Karakhela stadium road
		Sports Complex, Parachinar Open Space = 120 Kanal Tents Capacity = 2,400 No of people to be accommodated = 12,000	Sadda Parachinar Road, Parachinar
Kurram		Govt Degree College, Sadda Open Space = 40 Kanal Rooms = 20 Tents Capacity = 800 No of people to be accommodated = 4,100	Sadda Alizai Road, Sadda
	Kurram Lower	Cricket Ground, Sadda Open Space = 50 Kanal Tents Capacity = 1,000 No of people to be accommodated = 5,000	Tablighi Markaz Road, Sadda
		Govt High School, Alizai Open Space = 60 Kanal Rooms = 16 Tents Capacity = 1,200 No of people to be accommodated = 6,075	Thall Sadda Road, Alizai
	Central Kurram	Govt High School, Dogar Open Space = 40 Kanal Rooms = 14 Tents Capacity = 700 No of people to be accommodated = 3,570	Dogar Sadda Road, Dogar

		Karak	Govt Girls Centennial Model Higher Secondary School, Karak Open space = 32 Rooms = 15 Tents capacity = 600 No. of people to be accommodated = 3,075	Bannu Karak Road
			Govt Post Graduate College, Karak Open space = 200 Kanal Rooms = 100 Tents capacity = 1,800 No. of people to be accommodated = 9,500	Bannu Karak, Road
	Karak	Takht-e- Nasarati Banda Daud Shah	Takht- e- Nasarati Sports Complex Open space = 60 Kanal Tents capacity = 1,100 No. of people to be accommodated = 5,500	Takht-e-Nasarati Main Bazar
	Nasar		Govt Degree College, Takht-e-Nasarati Open space = 20 Kanal Rooms = 70 Tents capacity = 400 No. of people to be accommodated = 2,350	Takht-e-Nasarati Road leading to Indus Highway
			Govt Degree College, Banda Daud Shah Open space = 80 Kanal Rooms = 25 Tents capacity = 1,500 No. of people to be accommodated = 7,625	Bannu Kohat Road, Ahmadi Banda
			Govt Girls Degree College Banda Daud Shah Open space = 75 Kanal Rooms = 30 Tents capacity = 1,400 No. of people to be accommodated = 7,150	Bear Teri Chowk Mian Bannu Kohat Road
			Govt Post Graduate College Mardan Open space = 90 Kanal Rooms = 60 Tents capacity = 1,700 No. of people to be accommodated = 8,800	College Chowk Mardan. Nowshera Mardan Road
Mardan	Mardan Marda	Mardan	Military Dairy Farm Mardan Open space = 1600 Kanal Rooms = 20 Tents capacity = 7,500 No. of people to be accommodated = 3,000	Mardan Charsadda Road
			Govt Degree College, Toru Open Space = 80 Kanal Rooms = 30 Tent Capacity = 1,500 No. of people to be accommodated = 7,650	Toru Marhati Banda Road, Toru

	Katlang	Govt Degree College for Girls, Sawaldher, Katlang Open space = 40 Kanal Rooms = 35 Tents capacity = 800 No. of people to be accommodated = 4,000	Rustam Katlang, Road
	Č	2. Govt Degree College Katlang Open space = 80 Kanal Rooms = 40 Tents capacity = 1,500 No. of people to be accommodated = 7,700	Katlang Mardan Road, Katlang
		Sports Complex, Rustam. Open space = 50 Kanal Tents capacity = 9,00 No. of people to be accommodated = 4,500	Bunner Rustam Road, Rustam
	Rustam	2.Govt Girls Degree College, Rustam Open space = 08 Kanal Rooms = 60 Tents capacity = 220 No. of people to be accommodated = 1,100	Rustam Mardan Road, Rustam
		3. Govt Degree College Khair Abad, Rustam Open space = 30 Kanal Rooms = 60 Tents capacity = 600 No. of people to be accommodated = 3,300	Rustam Mardan Road, Khair Abad
		Govt Degree College, Takhtbhai Open space = 80 Kanal Rooms = 20 Tents capacity = 1500 No. of people to be accommodated = 7,600	Charsadda Takhtbhai Road, Takhtbhai
	Takht Bhai	Govt Degree College, Lund Khwar Open space = 30 Kanal Rooms = 35 Tents capacity = 600 No. of people to be accommodated = 3,175	Lund Khwar Shergarh Road, Lund Khwar
		Govt Higher Secondary School, Hathian Open space = 25 Kanal Rooms = 30 Tents capacity = 450 No. of people to be accommodated = 2,500	Shergarh Hathian Road, Hathian
Swabi	Topi	Govt High School, Topi Open space = 15 Kanal Rooms = 16 Tents capacity = 250 No. of people to be accommodated = 1,330	Zaida Topi Road Topi

		Govt Girls Degree College Topi Open space = 20 Kanal Rooms = 20 Tents capacity = 360 No. of people to be accommodated = 1,900	Zaida Road Marghuz
		University of Swabi Open space = 100 Kanal Tents capacity = 1800 No. of people to be accommodated = 9000	University Road
	Lahor	Govt Degree College, Lahor Open space = 35 Kanal Tents capacity = 620 Rooms = 24 No. of people to be accommodated = 3,220	Swabi Jehangira Road
	Razzar	Govt Degree College Yar Hussain Open space = 40 Kanal Rooms = 20 Tents capacity = 750 No. of people to be accommodated = 3,850	Swabi Mardan Road
Ra	Kazzai	Govt. Degree College, Shewa Open space = 20 Kanal Rooms = 25 Tents capacity = 380 No. of people to be accommodated = 2,025	College Road, Shewa
	Swabi	Govt Polytechnic Institute Shahmansoor, Open space = 30 Kanal Rooms = 22 Tents capacity = 550 No. of people to be accommodated = 2,860	Swabi Jehangira Road
		Baja Sports Complex Open space = 80 Kanal Tents capacity = 1500 No. of people to be accommodated = 7,500	Swabi Topi Road

ANNEXURE - IX

DISTRICT WISE DETAILS OF DIVERS TEAM CIVIL DEFENCE KHYBER PAKHTUNKHWA

S.No.	District	Total Divers
1	Abbottabad	Divers – 02, D.Sup – 01
2	Bajaur	Divers – 07, D.Sup – 01
3	Bannu	Divers – 07, D.Sup – 02
4	Batagram	Divers – 01, D.Sup – 01
5	Buner	Divers – 02, D.Sup – 01
6	Charsadda	Divers – 05, D.Sup – 01
7	Chitral	Divers – 02, D.Sup – 02
8	D.I.Khan	Divers – 01, D.Sup – 02
9	Dir Lower	Divers – 02, D.Sup – 01
10	Dir Upper	Divers – 01, D.Sup – 01
11	Hangu	Divers – 07, D.Sup – 01
12	Haripur	Divers – 05, D.Sup – 02
13	Karak	Divers – 01, D.Sup – 01
14	Khyber	Divers – 02
15	Kohat	Divers – 07, D.Sup – 01
16	Kohistan Lower	Divers – 01, D.Sup – 01
17	Kohistan Upper	Divers – 07, D.Sup – 01
18	Kurram	Divers – 01, D.Sup – 01
19	Lakki Marwat	Divers – 01, D.Sup – 01
20	Malakand	Divers – 05, D.Sup – 02
21	Mansehra	Divers – 01, D.Sup – 01
22	Mardan	Divers – 04, D.Sup – 01
23	Mohmand	Divers – 05, D.Sup – 02
24	Nowshera	Divers – 08, D.Sup – 02
25	Orakzai	Divers – 02, D.Sup – 01
26.	Peshawar	Divers – 08, D.Sup – 02
27	Shangla	Divers – 06, D.Sup – 02
28	Swabi	Divers – 02, D.Sup – 02
29	Swat	Divers – 03, D.Sup – 01
30	Tank	Divers – 01, D.Sup – 01
31	North Waziristan	Divers – 01, D.Sup – 02
32	South Waziristan	Divers – 01, D.Sup – 01

ANNEXURE - X

DISTRICT CHIEF WARDENS OF CIVIL DEFENCE KHYBER PAKHTUNKHWA

	LIST SHOWING NAMES OF	DISTRICT CHIEF WARDENS IN KHYB	ER PAKHTUNKHWA
S.No.	District	Name of Chief Warden	Mobile No.
1	Abbottabad	Mr. Mushtaq Ahmad Ghani	0300-8110010
2	Bajaur at Khar	Nawabzada Naeem Uddin Khan	0300-5832390
3	Bannu	-	-
4	Battagram	Mr. Saif ur Rehman Dishani	0300-3524145
5	Buner	Mr. Taj Muhammad	0333-9691191
6	Charsadda	Mr. Fahad Azam	0300-9393896
7	Chitral Lower	Mr. Muhammad Farooq	0332-9991555
8	Chitral Upper	Mr. Ahsan ul Haq	0344-9596567
9	D.I.Khan	Mr. Mushtaq Ahmad	0333-9969638
10	Dir Lower	Mr. Javed Iqbal	0342-9090914
11	Dir Upper	Mr. Muhammad Israr	0345-9426233 / 0323-7663303
12	Haripur	Mr. Mazhar Bukhari	0312-5208865
13	Karak	Mr. Ijaz Qamar	0314-9079795
14	Khyber at Landikotal	Malik Abdul Qayyum	0333-5554216
15	Kohat	Mr. Saleem Qureshi	0333-9614882
16	Kohistan Lower	Mr. Abdul Qayum	0346-8033350
17	Kohistan Upper	Mr. Ihsan Ul Haq	0346-8480800
18	Kolai Pallas	Mr. Imran (Deputy Chief Warden)	0323-9909731
19	Kurram at Parachina	Malik Ali Hussain	0300-9774558
20	Lakki Marwat	-	-
21	Malakand	Mr. Momin Khan	0333-3323394
22	Mansehra	Mr. Awais Sultan	0333-5026620
23	Mardan	Mr. Inayat Bacha	0310-5042377
24	Mohmand at Ghalanai	Mr. Fazli Hadi (Additional Chief Warden)	0345-6272840
25	Nowshera	Mr. Hamid Khattak	0342-6224278 / 0300-9857700
26.	Orakzai at Kalaya	Mr. Zafar Habib	0332-8383963
27	Peshawar	Syed Fayyaz Ali Shah	0300-8589700
28	Shangla	Syed Sajid Shah	0349-2299009
29	Swabi	Mr. Murad Ali Khan	0345-8328428
30	Swat	Engr. Umar Farooq	0333-9241667
31	Tank	Mr. Gulfam Haider	0341-9392248
32	Thall (Hangu)	Mr. Rafiq Badshah	0300-5652557
33	Torghar	-	-
34	North Waziristan at Miranshah	Mr. Akbar Ali Khan	0333-9444470
35	South Wiziristan	Mr. Taj Muhammad Wazir	0300-5891894

ANNEXURE - XI

MONSOON CONTINGENCY PLAN (2023) OF COMMUNICATION & WORKS DEPARTMENT KHYBER PAKHTUNKHWA

1. BUNER			
THREATS	C&W DIVISION BUNER		
Vulnerable sites of roads & bridges	 Daggar to Pir baba road to kalil kandawo (Buner Exit) 03-Km PK-20 Battara Shangra Road 17-Km Pk-21 Shaheeda sar Bazar kot Topai 12-Km Pk-21 Shaheed sar Etai Road 12-Km PK-21 Shaheeda Sar Bar Teraj Kuz Teraj Road 6-Km Pk-21 Dandar Dakara Ghazikot Road 16-Km Pk-22 		
Frequency of damages	Major Landslides occur every year particularly in Monsoon season and during heavy rain falls.		
Significance / criticality dependent population / traffic, impact if blocked	(1) UC Pacha (2) VC Battai (3) UC Gokand (4) VC Bar gokand (5) UC Battara Chaggharzai (6) UC Pandair VC Shangra (7) UC Gulbandai (8) UC Sooray (9) VC Topai (10) VC Mirragay (11) VC bekhany (12) VC Gumbat (13) UC Sarwaye (14) VC Dakara (15) VC Ghzazikot. These Ucs/VCs will be blocked restricting the movement of people and other logistics.		
Type and degree of threat i.e. flash flood / land slide	High level Flood in Khawar due to Monsoon Rainfall/ Landslides in hilly areas.		
Resources available, confirmation of numbers and fitness of available resources	 Truck with Crane 01-No Dozer 02-Nos Excavator 01-No Tractor 03-Nos 		
2. SHANGLE			
THREATS	C&W DIVISION SHANGLA		
Vulnerable sites of roads bridges	 Yakhtangay Puran Martung Karora Chakisar Road Karora Ajmir Road Km 1 Shangla Top to Maroof Khel Road Dandai Chakisar Road Dehrai Chakisar Road 		
Frequency of damages (along with past history)	Major Landslides occur every year particularly in Monsoon season and during heavy rain falls.		
Significance / criticality dependent population / traffic, impact if blocked	 Yakhtangay Puran Martung Road will cut off from District Head Quarter Karora Chakisar Road will cut off from District Head Quarter. Karora Ajmir Road will cut off from District Head Quarter. 		

	 Shangla To pto Maroof Khel Road cut off from Main Khwazakhela Besham Road Dandai Chakisar Road cut off KKH at Thakot Dehrai Chakisar Road cut off Village Chakisar and Yakthangay Puran Martun Road Most of the population of District Shangla will be effected.
Type and degree of threat i.e. reverie / flash flood / land slide	Landslides and washing of approaches roads.
Resources available confirmation of number and fitness of avail resources	 Excavator 03-Nos Tractor (06-Nos) Static / Dynamic Roller (02 Nos)
3. SWAT	
THREATS	C&W HIGHWAY DIVISION SWAT
Vulnerable sites of roads & bridges	 Qambar Bypass Road. Marghazar Road Gammon Bridge Jambil Gokand Road Matiltan Ushu Bridge and Road Gujjar Gabral Road Kalam Mahodand Road
Frequency of damages	Major Landslides occurred in Super Flood 2010.
Significance / criticality dependent population / traffic, impact if blocked	Qambar, Mingora, Marghazar, Shamozai, Jambil and Kalam will be disconnected in case of potential Flood damages.
Type and degree of threat i.e. flash flood / land slide	Land slides, washing of approaches and damages to Bridge structures.
Resources available confirmation of number and fitness of avail resources	 Excavator 03-Nos Tractor (06-Nos) Static / Dynamic Roller (02 Nos)
4. DIR (LOWER & UPPER)	
THREATS	C&W DIVISION DIR LOWER
Vulnerable sites of roads & bridges	 Luqman Banda Road Andheray Road Khall Barkalay Road Shahi Binshahi Road Miskini Kharkai Road Patrak to thal Road Thal Badgoway Road
Frequency of damages	Major Landslides occur every year particularly in Monsoon season and during heavy rain falls.
Significance / criticality dependent population / traffic, impact if blocked	Luqman Banda, Andheray, Barkalay, Binshahi and Miskinai Villages with sufficient populations ought to be disconnected in case of heavy rainfall.
Type and degree of threat i.e. flash flood / land slide	Slides/ Slips occurred in various reaches.
Resources available confirmation of number and fitness of avail resources	 Chain Buldozer 02-Nos Dumper Excavator.

5. CHITRAL (LOWER & UPPER)			
THREATS	C&W DIVISION CHITRAL		
Vulnerable sites of roads & bridges	 Reshun Gole flood hit this areas in 2010-13 & 15 Parwak Nullah on Booni Mastuj road. Charun Zondrangram road Muzhgole area Mulkhow. Chitral Booni Road at Green Lasht Area. Chitral Booni road sliding area at Reshun. Booni Mastuj road near Booni Km No.1 sliding area. Mastuj Broghal pass road various location. Charun Zondrrangram road at Kosht / Morder area. Kosht suspension bridge on Charun Zondrangram road. Suspension Bridge at Raman Laspur. Cantilever bridge over Chapali Gole on Mastuj Broghal pass road. Suspension bridge at Zuhpo on Mastuj Broghal pass road. 		
Frequency of damages (along with past history)	Flash flood has badly damaged roads/ bridges in 2010,2013, 15 &16		
Significance / criticality dependent population / traffic, impact if blocked	In case of blockage, the population of approximately 250000 will be effected alongwith blockage of road link leading to Gilgit Baltistan.		
Type and degree of threat i.e. reverie / flash flood / land slide	Landslides and washing of approaches roads.		
Resources available confirmation of number and fitness of avail resources	The following machinery are available for any emergency response: 1) Chain Dozer D-65 01-No 2) Chain Dozer China 01-No 3) Wheel Dozer 01-No 4) Heavy duty excavator 01-No (Available in Civil Station Booni and Mastuj)		
6. CHARSADDA			
THREATS	C&W DIVISION CHARSADDA		
Vulnerable sites of roads & bridges	 Jura Road and Jura Bridge Dildar Gahri Road Shabara Road Sardaryab Gul Abad Road Sur Pull to Londa Road 		
Frequency of damages (along with past history)	Flash flood had badly damaged roads & bridges in 2010		
Significance / criticality dependent population / traffic, impact if blocked	Alternate routes are available however 50, 000 population will be affected.		

Type and degree of threat i.e. reverie / flash flood	Washing of Roads and approaches, floods in
Resources available confirmation of number and fitness of avail resources	khuwars Machinery is not available however for emergency purpose machinery of local contractor will be available. 1) 3 Nos Bulldozer 3 Nos Excavator
7. NOWSHERA	
THREATS	C&W DIVISION NOWSHERA
Vulnerable sites of roads & bridges	 Misri Banda Bridge on River Kabul Pirsabaq bridge on River Kabul Nowshera Kallan Kishti pull bridge on river Kabul Pushtoon garhi bridge on river Kabul Kandar Akbarpura bridge Qasim Ali Baig Bridge Kotli Kallan Bridge Bakhtai Bridge
Frequency of damages (along with past history)	Major damaged occur in 2010 and 2015
Significance / criticality dependent population / traffic, impact if blocked	Minimum 1 lac population will be affected.
Type and degree of threat i.e. reverie / flash flood / land slide	Flash floods and heavy flow in Nowshera river
Resources available confirmation of number and fitness of avail resources	Machinery is not available however for emergency purpose machinery of local contractor will be available
8. D.I.KHAN	
THREATS	C&W DIVISION D.I.Khan
Vulnerable sites of roads & bridges	 Katcha Babar length 200 c/way Gara Rashid KM 10 6' Span Culvert Gara Rashid KM 12 10' Span Culvert Jhok Ramazan Km 4 2 Nos Culvert Protection Band of D.I.Khan Darya Khan Road Toewa Nalla On Daraban Road Zarkani Road Km 7 Kulachi Rodi Road km 6 to 10 km Parova Choudwan Road Km 35 to 40
Frequency of damages (along with past history)	Structures were damaged in flood 2010, 2015 and 2018
Significance / criticality dependent population / traffic, impact if blocked	Gara Rashid, Nievala, Adil Sipra and Gara Abdullah Population 30,000 – 40, 0000
Type and degree of threat i.e. Reverie / flash flood / land slide	Flash flood and heavy flow of Indus river at approach of D.I.Khan Darya Khan Bridge
Resources available confirmation of number and fitness of avail resources	Machinery is not available however for emergency purpose machinery of local contractor will be available 1. Dozer 3-Nos 2. Tracktor trolley 7 Nos 3. Excavator – 6 Nos

9. MANSEHRA			
THREATS	C&W HIGHWAY DIVISION MANSEHRA		
Vulnerable sites of roads & bridges	 Ghari Habib ullah Road Baffa Doraha to baffa Road Pano Kanait Road Shinkiari Nawaz Abad Mandagucha Road Jabar Devli Road Battal Sathan Gali Road Battal Jalgali Road Oghi Ahl Road Chattar Neel Ban Road Khabal Road 		
Frequency of damages	Land Sliding occurred after each spell of rain fall. Culverts damaged and road cut off due to floods.		
Significance / criticality dependent population / traffic, impact if blocked	Population of surrounding villages suffers: Ghari Habib ullah, Baffa, Pano Kanait, Nawaz Abad Mandagucha, Jabar Devli, Sathan Gali, Jalgali, Neel Ban Khabal.		
Type and degree of threat i.e. flash flood / land slide	High level floods in river Kunhar and Siran and land sliding due to Monsoon rains.		
Resources available confirmation of number and fitness of avail resources	NILL		
10. BATTAGRAM			
THREATS	C&W DIVISION BATTAGRAM		
	C&W DIVISION BATTAGRAM 1) Thakot Banna Road 2) Kandao Sijbiar Road 3) Ganther Road 4) Gangwall Road 5) Kund Banna Road 6) Pashto Road 7) Battagram oghi Road 8) Chilar sokar Road 9) Landikass Pirhari kotwall Road 10) Shamlai Road 11) kohani Mirani Road 12) Chanjil Shamrad Road 13) Paimal Rangeen Abad Road 14) Lami Sarmast kathora Road 15) Kadlow Rajmaira Road 16) Biland kot Saidra Road		
THREATS	1) Thakot Banna Road 2) Kandao Sijbiar Road 3) Ganther Road 4) Gangwall Road 5) Kund Banna Road 6) Pashto Road 7) Battagram oghi Road 8) Chilar sokar Road 9) Landikass Pirhari kotwall Road 10) Shamlai Road 11) kohani Mirani Road 12) Chanjil Shamrad Road 13) Paimal Rangeen Abad Road 14) Lami Sarmast kathora Road 15) Kadlow Rajmaira Road 16) Biland kot Saidra Road Land Sliding occurred after each spell of rain fall. Culverts damaged and road cut off due to floods.		
THREATS Vulnerable sites of roads & bridges	1) Thakot Banna Road 2) Kandao Sijbiar Road 3) Ganther Road 4) Gangwall Road 5) Kund Banna Road 6) Pashto Road 7) Battagram oghi Road 8) Chilar sokar Road 9) Landikass Pirhari kotwall Road 10) Shamlai Road 11) kohani Mirani Road 12) Chanjil Shamrad Road 13) Paimal Rangeen Abad Road 14) Lami Sarmast kathora Road 15) Kadlow Rajmaira Road 16) Biland kot Saidra Road Land Sliding occurred after each spell of rain fall.		
THREATS Vulnerable sites of roads & bridges Frequency of damages Significance / criticality dependent population /	1) Thakot Banna Road 2) Kandao Sijbiar Road 3) Ganther Road 4) Gangwall Road 5) Kund Banna Road 6) Pashto Road 7) Battagram oghi Road 8) Chilar sokar Road 9) Landikass Pirhari kotwall Road 10) Shamlai Road 11) kohani Mirani Road 12) Chanjil Shamrad Road 13) Paimal Rangeen Abad Road 14) Lami Sarmast kathora Road 15) Kadlow Rajmaira Road 16) Biland kot Saidra Road Land Sliding occurred after each spell of rain fall. Culverts damaged and road cut off due to floods. Population of surrounding villages suffers. Gangwall., Ganther. Pashto, Tandool, Rabat kandao, Berser, Sokar, Sarkhali banda, Ghari nawab said, Bilandkot, Shamlai, khathora, Paimal,		

11. KOHISTAN			
THREATS	C&W DIVISION KOHISTAN		
Vulnerable sites of roads & bridges	 Dubair Valley Kayal Valley Chawa Darra Jalkot Goshali Road Kandian Valley Road, Chappar Nallah Bridge Tial Road Zed Khar Road Dong Nallah Road Pallas valley Sherakot Valley Kolai 		
Frequency of damages (along with past history)	N/A		
Significance / criticality dependent population / traffic, impact if blocked	Dubair Valley, Ranolia, Kayal, Semo Darra, Chawa Darra, Goshali, Jalkot, Sput Valley, Kandian Valley, Tial, Kuz Zed Khar, Bar Zed Khar, Dong Nallah, Pallas Valley Road, Sherakot valley & Sheriyal, Kolai Valley		
Type and degree of threat i.e. Reverie / flash flood / land slide	High level flood during Monsoon rainfall if occur.		
Resources available confirmation of number and fitness of avail resources	NIL		
12. BAJAUR			
THREATS	C&W DIVISION BAJAUR		
Vulnerable sites of roads & bridges	 Khar Zulam Road 36-KMS Khar Nawagai Shandai More To Khar Chowk 26-KM 		
Frequency of damages	Major Landslides occur every year particularly in Monsoon season and during heavy rain falls.		
Significance / criticality dependent population / traffic, impact if blocked	Tehsil Nawagai, Teshil Barang & Tehsil Khar		
Type and degree of threat i.e. Flash flood / land slide	Landslides and washing of approaches roads.		
Resources available, confirmation of numbers and fitness of available resources	1) Road Roller 2-Nos Mixture Machine 2-Nos		
13. MOHMAND			
THREATS	C&W DIVISION MOHMAND		
Vulnerable sites of roads bridges	 Main Ekka Ghund To Ghallani Road 14-KMS EKka Ghund To Sapari Road 10-KMS Aba Zai To Dev. Dherai Road 8-KMS 		
Frequency of damages (along with past history)	Major landslides occur every year particularly in monsoon season and during heavy rain falls.		

Significance / criticality dependent population / traffic, impact if blocked	Tehsil Ghallani, Teshil Ekkaghund & Tehsil Abazai	
Type and degree of threat i.e. Reverie / flash flood / land slide	Landslides and washing of approaches roads.	
Resources available confirmation of number and fitness of avail resources	 Road Roller 4-Nos Jaw Crusher 2 Nos. Mixture Machine 2-Nos 	
14. KHYBER		
THREATS	C&W DIVISION KHYBER	
Vulnerable sites of roads bridges	 From Sirajuddin Madrassa To Spin Dand 12-KMS Miward Cam Road 6-KMS From Darwazgai To Lar Bagh 6-KMS 	
Frequency of damages (along with past history)	Major landslides occur every year particularly in monsoon season and during heavy rain falls.	
Significance / criticality dependent population / traffic, impact if blocked	Tehsil Bara, Teshil Jamrud & Tehsil Landi Kotal	
Type and degree of threat i.e. Reverie / flash flood / land slide	Landslides and washing of approaches roads.	
Resources available confirmation of number and fitness of avail resources	 Road Roller 14-Nos Jaw Crusher 8 Nos. Mixture Machine 6-Nos Jack Hammer 11-Nos. 	
15. ORAKZAI		
THREATS	C & W DIVICION OD A L/7 A I	
THEREIS	C&W DIVISION ORAKZAI	
Vulnerable sites of roads bridges	1) Shahu to Ghiljo Road 34-KMS 2) Ghiljo to Daboori via Khani Khel 24-KMS 3) Yakhkandow to Ghiljo 13-KMS	
	 Shahu to Ghiljo Road 34-KMS Ghiljo to Daboori via Khani Khel 24-KMS 	
Vulnerable sites of roads bridges	 Shahu to Ghiljo Road 34-KMS Ghiljo to Daboori via Khani Khel 24-KMS Yakhkandow to Ghiljo 13-KMS Major landslides occur every year particularly in 	
Vulnerable sites of roads bridges Frequency of damages (along with past history) Significance / criticality dependent population /	Shahu to Ghiljo Road 34-KMS Ghiljo to Daboori via Khani Khel 24-KMS Yakhkandow to Ghiljo 13-KMS Major landslides occur every year particularly in monsoon season and during heavy rain falls.	
Vulnerable sites of roads bridges Frequency of damages (along with past history) Significance / criticality dependent population / traffic, impact if blocked Type and degree of threat i.e. Reverie / flash flood / land slide Resources available confirmation of number and fitness of avail resources	Shahu to Ghiljo Road 34-KMS Ghiljo to Daboori via Khani Khel 24-KMS Yakhkandow to Ghiljo 13-KMS Major landslides occur every year particularly in monsoon season and during heavy rain falls. Tehsil Ghiljo	
Vulnerable sites of roads bridges Frequency of damages (along with past history) Significance / criticality dependent population / traffic, impact if blocked Type and degree of threat i.e. Reverie / flash flood / land slide Resources available confirmation of number and fitness of avail resources 16. KURRAM	 Shahu to Ghiljo Road 34-KMS Ghiljo to Daboori via Khani Khel 24-KMS Yakhkandow to Ghiljo 13-KMS Major landslides occur every year particularly in monsoon season and during heavy rain falls. Tehsil Ghiljo Landslides and washing of approaches roads. Road Roller 2-nos Jaw Crusher 2 nos. Mixture Machine 2-nos Jack Hammer 2-nos. 	
Vulnerable sites of roads bridges Frequency of damages (along with past history) Significance / criticality dependent population / traffic, impact if blocked Type and degree of threat i.e. Reverie / flash flood / land slide Resources available confirmation of number and fitness of avail resources	1) Shahu to Ghiljo Road 34-KMS 2) Ghiljo to Daboori via Khani Khel 24-KMS 3) Yakhkandow to Ghiljo 13-KMS Major landslides occur every year particularly in monsoon season and during heavy rain falls. Tehsil Ghiljo Landslides and washing of approaches roads. 1) Road Roller 2-nos 2) Jaw Crusher 2 nos. 3) Mixture Machine 2-nos Jack Hammer 2-nos.	
Vulnerable sites of roads bridges Frequency of damages (along with past history) Significance / criticality dependent population / traffic, impact if blocked Type and degree of threat i.e. Reverie / flash flood / land slide Resources available confirmation of number and fitness of avail resources 16. KURRAM	 Shahu to Ghiljo Road 34-KMS Ghiljo to Daboori via Khani Khel 24-KMS Yakhkandow to Ghiljo 13-KMS Major landslides occur every year particularly in monsoon season and during heavy rain falls. Tehsil Ghiljo Landslides and washing of approaches roads. Road Roller 2-nos Jaw Crusher 2 nos. Mixture Machine 2-nos Jack Hammer 2-nos. 	

Significance / criticality dependent population / traffic, impact if blocked	Tehsil Central Kurram & Upper Kurram		
Type and degree of threat i.e. Reverie / flash flood / land slide	Landslides and washing of approaches roads.		
Resources available confirmation of number and fitness of avail resources	 Road Roller 03-Nos Jaw Crusher 3 Nos. Mixture Machine 3-Nos Air compressor 03-nos. Jack hammer 03- nos. 		
17. NORTH WAZIRISTAN			
THREATS	C&W DIVISION NORTH WAZIRISTAN		
Vulnerable sites of roads bridges	 Isha-Razmak Road 64-KMS Miranshah- Datta Khel Road Section 15-KMS Thall-Mirali Raod 54-KMS Spinwam-Hassan Khel Road 35-KMS Ghazlima Bridge at KM-1 of Kher Kamar of Loeya Mandi Road 250 Mtr. 		
Frequency of damages (along with past history)	Major landslides occur every year particularly in monsoon season and during heavy rain falls.		
Significance / criticality dependent population / traffic, impact if blocked	Tehsil Razmak, Tehsil Miranshah, Tehsil Mirali, Teshil Spinwam		
Type and degree of threat i.e. Reverie / flash flood / land slide	Landslides and washing of approaches roads.		
Resources available confirmation of number and fitness of avail resources	Road Roller 01 No.		
18. SOUTH WAZIRISTAN			
THREATS	C&W DIVISION SOUTH WAZIRISTAN		
Vulnerable sites of roads bridges	 Tank Wana Road via Gomal Zam Road 4-KMS Wana Angoor Adda Road KM 06-52 Road 64-KMS Wana Tanai Gul Katch Road 1-32 Road 32-KMS Wana Kari Kot Road Km 06-14 9 KMS Wshakai Bazar Km-1 to 14 Wana Jandola Road Km 30-52 Road Sam Bridge on Makeen to Wana Road KM-23 		
Frequency of damages (along with past history)	Major landslides occur every year particularly in monsoon season and during heavy rain falls.		
Significance / criticality dependent population / traffic, impact if blocked	Tehsil Wana & Tehsil Ladha		
Type and degree of threat i.e. Reverie / flash flood / land slide	Landslides and washing of approaches roads.		
Resources available confirmation of number and fitness of avail resources	 DRR Shahzor Bulldozer Moter Greader 		

ANNEXURE – XII

IRRIGATION VULNERABILES RIVERS, KHAWARS & NALLAHS FOR MONSOON (2023)

Division / District	Rivers / Khawars / Nullas	Length (km/ft.)	Vulnerability Villages / At Risk Union Councils
2 13 01 100	DN-1	8174	TRETUSK EMON COUNCIS
	DN-2	13263	
	DN-3	65200	
	DN-4	9324	Pusha, GarabBakhsha, KorlaBabib, Tiken,
	DN-5	73555	Dera Town Ship, MMM Teaching Hospital
	DN-6	7576	Khuti, Banda Behram Khan, Ruknau, Dakran
	DN-7	17331	31.85596 N, 70.79966 E
	DN-8	7530	31.80186 N, 70.80496 E 31.827305 N, 70.815132 E
	DN-9	23760	31.8200011 N, 70.813132 E
	DN-10	6060	31.425151 N, 70.485592 E
	DN-11	21392	31.12313114, 70.10339212
	DN-12	2959	
	DN-13	15837	
	DN-14	28550	Kulachi Wala, Daraban Khurd, Lunda Sharif,
	DN-15	2905	Rora, Babbi, Chajri, Gara Sanga, Naivela,
	DN-16	32789	Gara Rashid, Jhoke Masu, Birki, Jhoke Machi,
	DN-17	6709	Parova, Jhoke Gadi, Sikander, Birkan,
Irrigation	DN-18	50509	Markarr 21 6621222 N. 70 7804585 E 21 402411 N.
Division District	DN-19	49546	31.6621222 N, 70.7894585 E 31.403411 N, 70.40478 E
D.I.Khan	DN-20	16197	31.375989 N, 70.422590 E
2 1111111111	DN-21	7000	31.38199 N. 70.434047 E
	DN-22	70615	31.323719 N, 70.454024 E
	DN-23 (Gudh FCC)	79550	31.6168613 N, 70.6317043 E 31.621694 N,
	FCC (Leni)	19250	70.634864 E
	FCC (KhudWarkari)	77571	31.5301349 N, 70.7595491 E 31.561358 N, 70.702628 E 31.322412 N, 70.432147 E 31.571244 N, 70.698042 E
	FCC (Velhari)	6726	Wapda Colony Indus Highway Jhoke Amin,
	FCC (Gajistan)	28950	Bhutaser, Chira, JhokeTilken, Ramak, Shah
	FCC (Sherana)	46601	Ajmal
	FCC Ramak	3429	31.4821486 N, 70.692215 E 31.4653118 N, 70.6849194 E 31.384817 N, 70.705083 E 31.378976 N, 70.6877518 E 31.398494 N, 70.706648 E 31.352783 N. 70.686143 E
	Indus River	150 km	D.I.Khan Paroa

Irrigation	15 Nullahs and 01 River	70 km	Bridges Hospital houses 9 2 3860		
Division-I	31 Nullahs and 01 river	13700-ft			
Swat	55 Nullahs and 01 river	95 km	Bridges Hospital houses 4 2 3860		
Irrigation Division Chitral	Chitral Rivers & tributaries	14 Km	Mastuj, booni, Reshun, Koh Chitral-I, Chitral –II, Shoghor, Garomchashema, Ayon, Droshe-I, Droshe-II, Arandu - Sheshikoh		
	Siran Rivers & its tributaries	210 Km	Jabar, Sucha, Jabori, Bogharmang, Sum, Shinkari, Baffa and Khaki		
	Kunhar Rivers & its tributaries	266 Km	Kaghan, Mohandri, Balakot, Garlat, Sohal, Karnol, and Ghari Habibllah		
	Ichar Nullah	23 Km	Parra, Labarkot, Gandhiyan		
	Nandiar Khwar & its tributaries	35	Battagram, Gajbori, Shamalai, Ajmira, & Batamor		
	Allai Khawar & its tributaries	25	Rest House, Taloos, Karag, Banna, Biari, Bateela Konshay Rabkani & Dirkat		
	Judbah Khwar	12	Judbah, Harnail, Balkot & Jatka		
Invigation	Shall Khawar	18	Darbani, Lashora, Jhango, Hassanzai Palosha & Tilli Syedan		
Irrigation Division	Dor Mera Khawar	9	Dor Mera, Shingaldar, Mangri & Bartoni		
Mansehra	Pattan Nullah	25	Chawa Dara, Segiyoun & Pattan		
	Keyal Nullah	27	U/C Keyal		
	Dubair Nullah	30	Dubair Bala, Khas & Dubair Payeen		
	Ranolia Nullah	15	Ranolia		
	Hajdeer Nullah	10	Chawa Dara		
	Sanga Nullah	11	Chawa Dara		
	Goshala Nullah	33	Goshali		
	Kandian Nullah	35	Toti, Gabral & Karang		
	Jalkot Nullah	20	Jalkot		
	Musha khawar	20	Paro		
	Ghazi Abad Khawar	10	Shalkan Abad		
	Salkand Abad Khawar	5	Shalkan Abad		
		2000-ft	Mayar-1		
		1500-ft	Sowkai Village		
	Kalpani Nullah	2500-ft	Toru Village		
Irrigation		3000-ft	Kutarpan Village		
Irrigation Division		1500-ft	Hoti		
Mardan	Bandai Drain	1500-ft	Mohib Banda		
	Manga Drain	2000-ft	Khazana Dhery		
	Kamran Drain	3000-ft	Saro Shah		
	Kalpani Nullah	3500-ft	Babu Khel		
	1	1500-ft	Kochi Abad		

	Adezai River (Warsak Dam to Charsadda Sardaryab Bridge)	32.53	U.C Joggani U.C Mamu Khatki, U.C Gul Bela, U.C Agra		
	Kabul River (Sardaryab Bridge to Motorway Bridge)	9.14	U.C Agra.		
	Dallas Drain	13.10	U.C Shahi Bala, U.C Patwar, U.C Mathra, U.C Pir Bala		
	Gudar & Shahi Khwar	7.93	U.C Shahi Bala & Shahi Payan		
	Regi & Shena Kaley	12.81	U.C Regi, U.C Lakary, U.C Shahi, & U.C Mulazai		
	Malakander Khwar	14.54	U.C Malakander, U.C Achini.		
	Shah Alam River	40.00	U.C Takhtabad, U.C Kharaki, U.C Mian Gujjar		
Irrigation Division	Naguman River	26.05	U.C Nahqi, U.C Mian Gujjar, U.C Gul Bela		
Peshawar	Budhni Nullah	24	U.C Kankola, UC Pajagi, UC Larama, UC Khazana, U.C Takhtabad		
	Bara River, (Bara to Outfall)	46.89	U.C Kurvi, U.C Akbar Pura, U.C Tarnab		
	Kabul River (Motorway Bridge, Aman Ghar)	21.62	U.C Kurvi, U.C Banda Mohib, U.C Dagai		
	Kabul River (Aman Ghar to Khaira Abad)	40	U.Cs Khalil Abad, Khatt Kaly, Nowshera Cantt, Dheri Katti Khel Akora Khattak		
	New Chilla, (Aurangabad to Outfall	6.70	U.C Kurvi, U.C Banda Mohib, U.C Balu		
	Old Chilla, (Aurangabad to Outfall)	9.45	U.C Aman Kot, U.C Dagai, U.C		
	Banda Mohib Drain.	0.46	U.C Banda Mohib		
	Pushtoon Ghari Nullah	0.14	U.C Dagai		
	Aza Khel Nullah	0.44	U.C Aza Khel		
Irrigation Division-II Swat	Swat, Usho, Gabral Rivers & Barwai, Haronal, Shahgram, Mankyal, Gharal, Cham Gharal, Pishmal, Balakot, Qarandokal, Shin, Khwaza Khela, Miandam, Wach, Charbagh Tirat, Chail etc. Khwars	244.00	Tirat, Fatehpur, Chalyar, Shin, Kotanal, Farhatabad, Khwaza Khela, Asala, Kalakot, Asharal, Drush Khela, Bodigram, Bama Khela, Darmal, Sakhra, Nawkhara, Lalko, Khareral, Chuprial, Barthana, Gwalera Beha, Pirkalay, Arkot, Shawar etc.		
	Khan, Ghwarband & kana Khwars	65.00	Karora, Dherai, Bela Baba etc.		

ANNEXURE - XIII

VULNERABLE SITES IDENTIFIED FOR MONSOON (2023) BY NATIONAL HIGHWAY AUTHORITY (NHA)

RESOURCES FOR RESTORATION OF ROADS / BRIDGES IN EMERGENCY SITUATION IN MAINTENANCE UNITS				
S.No. Maintenance Unit Route		RM Contractor		
		N-5	102 Routine Maintenance Contracts.	
1	Peshawar	N-55	RM contractors already mobilized on all section of National Highways in KPK Region.	
		N-80	Their resources will be available to meet any emergency.	
2	2 Karak	N-55 (IHP)	Resources of Special Maintenance and Periodic Maintenance contractors already mobilized on different sections of National Highways shall also be utilized to meet any emergency.	
		N-55 (OBR)	Furthermore, in case of any emergency, other agencies shall also be contacted to meet the requirements.	
3	D.I.Khan	N-55		
3	D.I.Kilali	N-50		
4	Batkhela	N-45		
5	Swat	N-90		
	Swat	N-95		
		N-45		
6	Chitral	N-140		
		N-145		

NHA REGION'S FOCAL PERSONS / CONTROL ROOM PESHAWAR						
S.No.	Focal Person	Telephone / Mobile	Addresses			
	Mr. Murshid Amin Khattak	0300-5921709	NHA Main Complex Chamkani			
1	GM (Maint) KP	091-9225002	Interchange Near Police Station Chamkani Peshawar			
	Mr. Muhammad Zahir Khan	0303-8600001	NHA Main Complex Chamkani			
2	Director (Maint-South) KP	091-9225013	Interchange Near Police Station Chamkani Peshawar			
	Mr. Muhammad Ashfaq	0345-9211001	NHA Main Complex Chamkani			
3	Director (Maint-North) KP	091-9225012	Interchange Near Police Station Chamkani Peshawar			
	Mr. Zafeer Gul	0333-9156823	NHIAM: C 1 Cl 1:			
4	Mr. Jibran Iqbal	0321-9004288	NHA Main Complex Chamkani Interchange Near Police Station			
4	Mr. Muhammad Adil	0333-9112380	Chamkani Peshawar			
	(Control Room)	091-9225002-3	Chamkam i Cshawai			

FIELD MAINTENANCE UNITS AVAILABLE AT DIFFERENT STATIONS IN CASE OF ANY EMERGENCY				
S.No.	S.No. Focal Person Telephone / Fax Addresses			
	Mr. Abid Zia	0300-5990515	NIIA Main Campley Chambrani Interchange	
1	Deputy Director (Maint) Peshawar	091-9225020	NHA Main Complex Chamkani Interchange Near Police Station Chamkani Peshawar	
	Mr. Kiramatullh	0336-0333037		
2	Deputy Director (Maint) Karak	0927-210200	NHA, Near Distt. Jail KDA, Karak	
	Mr. Najeebullah 0300-3811777	0300-3811777		
3	Deputy Director (Maint) D.I.Khan	0966-747314	NHA Complex Daraband road D.I.Khan	
	Mr. Fawad Mohmand	0332-9381129	NHA (Maint) Office Near SNCDI Dymass	
4	Deputy Director (Maint) Batkhela	0932-410719	NHA (Maint) Office Near SNGPL Bypass Road Batkhela	
	Mr. Gohar Ali	0333-9353535	Haysa No. 54 Sactor D Vanica Taymahin	
5	Deputy Director (Maint) Swat	0946-818046	House No. 54 Sector-B Kanjoo Township Swat	
	Mr. Fawad Mohmand	0332-9381129	NHA (Maint) Office Chitral Guest House	
6	Deputy Director (Maint) Chitral	0943-414776	Waliabad, Shandur Road, Danin Chitral	



ANNEXURE - XIV

VULNERABLE SITES IDENTIFIED FOR MONSOON (2023) BY PAKHTUNKHWA HIGHWAYS AUTHORITY (PKHA)

High Vulnerable Sites / Areas

S.No.	List of Roads / Bridges	Location	Vulnerability based on Damages Occurred during 2022 Flood
1	Sardaryab-Khayali-Charsadda Section	Km 22-30 (S-1)	Road over topped by flood water near Sardaryab to Khyali Bridge. Also 200 feet approach of Khiyali Bridge towards Peshawar side was washed away by the heavy flood in River Swat
2	Pir Bala-Mathra Section near Almasah Town	Km 7-14 (S-4)	Road over topped by flood water in various reaches and down-stream shoulder washed away.
3	Jehangira Bridge	S-6 (Swabi - Jehangira Km 2)	Approaches of the bridge were totally damaged/washed away upto 70 m
4	Bada Bridge Swabi - Topi	S-1 (Topi - Gadoon)	A span of bridge settled down
5	Jehangira Bridge	Km 30 (S-6)	Swabi side approach washed away
6	Dera Darya Khan Bridge	S-8 (D.I.Khan)	Pile caps shows cracks
7	Khazana Bypass Road / Bridge	S-4 (Timergara)	Bridge damaged
8	Swari-Dewana Baba-Puran Road	S-10-A	Slides
9	Ambella Daggar Karakar Barikot Road (KM 85)	S-10	Slides on 400m length on karakar top.
10	Barrian - Nathiagali - Abbottabad Road (57.50 Km)	-	Slides
11	Maqsood-Lora-Gora Gali-Barian- Nathiagali-Abbottabad Road i/c Link road to Ayubia	S-5 & S-5-A (District Haripur/ Abbottabad	Slides

Irrigation Department Control Room:

A well-defined flood control cell has been established with Deputy Director (H/Q) & Deputy Director (Procurement) PKHA as the focal person and Director Maintenance as the overall incharge. Contact Numbers of the focal persons have been circulated to all concerned, as:

Engr. Tufail Ahmad Deputy Director (H/Q) 091-9213522

Engr. Naeem Ullah Khan Deputy Director (Procurement)

