

MONSOON CONTINGENCY PLAN --- 2019 ---



Provincial Disaster Management Authority
Government of Khyber Pakhtunkhwa

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MESSAGES



(Mr. Mehmood Khan)

Chief Minister
Khyber Pakhtunkhwa

Government of Khyber Pakhtunkhwa is fully committed to providing all out help and support both political and financial for disaster management. In this regard effective and efficient disaster management is of vital importance to the province of Khyber Pakhtunkhwa, one of the most disaster-prone areas in this region. Natural and man-made disasters including earthquakes, floods, droughts, landslides, fires, industrial accidents, displacements and complex humanitarian emergencies, have caused great misery and suffering in our province in recent years. Climate change and shifts in monsoon patterns are posing new challenges for our province causing damage in areas not previously affected. The indications are that extreme events will occur with greater frequency and intensity in the future and we must be prepared for all eventualities.



(Mr. Muhammad Saleem Khan)

Chief Secretary
Khyber Pakhtunkhwa

Development and implementation of effective strategies to counter the impacts of disasters and climate change is imperative. We must ensure that disaster risk reduction (DRR), preparedness, development of adequate disaster response mechanisms, and climate change adaptation receive priority attention in all planning and development. Proactive planning and adaptation of necessary mitigation measures must be carried out by all concerned in advance to significantly reduce losses associated with floods.

I am confident over the preparatory approach adapted by PDMA KP for the upcoming monsoon season and the contributions by all departments and district administrations and other organizations will surely help all the stakeholders to respond to emergency situation in a timely and coordinated manner with professionalism.

MESSAGES



(Mr. Muhammad Abid Majeed)
Secretary, Relief Rehabilitation &
Settlement Department
Khyber Pakhtunkhwa

The Provincial government is fully committed to realizing our vision of a Disaster Resilient Khyber Pakhtunkhwa. We welcome and appreciate the valuable support of our many stakeholders and partners who have stood with us in the many challenging times we have faced, and in moving forward.

Relief Rehabilitation & Settlement Department is providing umbrella to all the key custodians of disaster management that is PDMA, Rescue 1122 and Civil Defense. Policy level paradigm shift and strengthening capacity of these key organs has been completed and some are under process. Soon these key players of disaster management would be having a sound legal and policy backing to deal with forth coming events in before, during and post disaster scenarios.



(Mr. Parwaiz Sabat Khel)
Director General
PDMA, Khyber Pakhtunkhwa

PDMA Khyber Pakhtunkhwa has faced so many disaster events in the past and the earlier DGs have transformed these disasters into opportunities and blessing by making PDMA a well reputed dynamic organization having unmatched system and organizational expertise viz a viz other sister organizations.

The Disaster Risk Reduction (DRR) activities of the PDMA are aligned to the Hyogo and Sendai Frameworks, and the Khyber Pakhtunkhwa Disaster Management Road Map (2014-2019) which was developed to strategically plan the DRR needs of Khyber Pakhtunkhwa. The ongoing projects of conducting MHVRA in 35 Districts, strengthening divisional reporting tiers and 35 DDMU's, working on PDMP and installation of state of the art hydro metrological telemetric devices would strengthen resilience capability of PDMA.

The central theme of this year's monsoon contingency plan is "Disaster is everybody's Business".

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LIST OF ACRONYMS

AAD	Additional Assistant Commissioner
AC	Assistant Commissioner
ADB	Asian Development Bank
CDPM	Centre for Disaster Preparedness and Management, University of Peshawar
DEO	District Emergency Officer
DC	Deputy Commissioner
DDMO	District Disaster Management Officer
DDMU	District Disaster Management Unit
DNA	Damage Need Assessment
GLOF	Glacial Lake Outburst Flood
HoH	Head of House Hold
HRF	Humanitarian Response Facility
MC	Municipal Corporation
MO	Municipal Officer
MHVRA	Multi Hazard Vulnerability Risk Assessment
OBM	Out-Board Motors
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
WB	World Bank
WFP	World Food Program
WHO	World Health Organization

EXECUTIVE SUMMARY

The peculiar geography and terrain of the Khyber Pakhtunkhwa province makes it vulnerable to the increased climatic hydro-meteorological hazards, which can exacerbate its anomalous condition. This province is prone to natural hazards like; floods, earthquakes, landslides, heavy winds/ cyclones, which results in extensive damages to both life and property. As the province has been ranked as the most vulnerable to the climate change, which can be observed from the erratic weather patterns of the province, in form of above normal rainfall as well as heavy winds in many parts of the province. Apart from these natural disasters, the province has also witnessed anthropogenic disasters in shape of militancy and terrorism. Due to seasonal variations, the temperature of the province has increased, which adds to the capricious changes with the shift of monsoon to the mountainous regions of the province. The variations further changes, and adds to the vulnerabilities, when the western disturbances confluence with traditional rainfall. In addition to these hazards, GLOF is another emerging phenomenon, observed especially in Chitral District (having a glacial cover of 4000 sq.km, the second largest glacial inventory in Pakistan after GB). The incidents of GLOF have posed some serious threats and challenges to the mountainous communities in the far-flung areas in recent times.

The 2010 floods wreaked havoc in the province. As per the estimates of Federal Flood Commission, the combine flow of river Swat and river Kabul touched the new historical high of 400,000 cusec, which was recorded previously at 250,000 cusec in 1929. In order to respond to monsoon hazards in an articulated and coordinated manner, this plan can help and provide guidelines to Provincial Government to identify and locate all available resources (both public & private).

This plan has been prepared, keeping in view all the natural and anthropogenic calamities, after a series of consultative meetings with the District Administrations, Provincial and Federal Line Agencies/ Departments (working in the province), Pak-Army Headquarters, Engineering 11 Corps Peshawar and other humanitarian organizations, including; United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA), Pakistan Red Crescent Society, DRR Forum and national Humanitarian Network.

This contingency plan is based on different scenarios i.e. high, medium and low flood impact scenarios. The data from the three scenarios has also been augmented by inclusion of other multiple factors such as impact on population of a district, infrastructure and accessibility. Keeping in view Pakistan Meteorological Department's weather forecast, PDMA is making efforts to strengthen the district administration by providing resources and other relevant support for immediate response. Resource mapping of all relevant stakeholders is an integral part of the plan as it helps in identifying resource availability vis-à-vis, all stakeholders that will be required for a swift response.

PROVINCIAL DISASTER MANAGEMENT AUTHORITY KHYBER PAKHTUNKHWA (PDMA)

PDMA was established on 27 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 KP to handle the emergency situation.

Provincial Reconstruction Rehabilitation and Settlement Authority (PaRRSA) was established in 2009 under the auspices of PDMA KP for revival of disaster affected infrastructure and rehabilitation activities in militancy hit areas of the province. It provided a one window facilitation for donor coordination and fast track approval mechanism for rehabilitation projects. PaRRSA has been merged into PDMA and has been transformed into Reconstruction and Rehabilitation Wing of PDMA.

Disaster Management was primarily covered under “The West Pakistan National Calamities Act, 1958”. This provided a reactive approach towards disaster management. A need was felt to cover the legal gap required for proactive disaster management. Therefore, National Disaster Management Act, 2010 was passed by the National Assembly. PDMA KP formulated its PDMA Amended Act 2012 by incorporating human induced disasters like militancy and terrorism incidents and made some other relevant changes in the context of peculiar situation of the province.

FDMA was responsible for disaster management activities in erstwhile FATA, however, after the merger of FATA with the province of Khyber Pakhtunkhwa, it has been merged in PDMA KP (Notified on 13th May 2019), which is now transformed into Complex Emergency Wing of PDMA.

The provincial Reconstruction and Rehabilitation Authority (PeRRA) has also been brought under the administrative control of RRS department which will ultimately be merged with PDMA in due course of time.

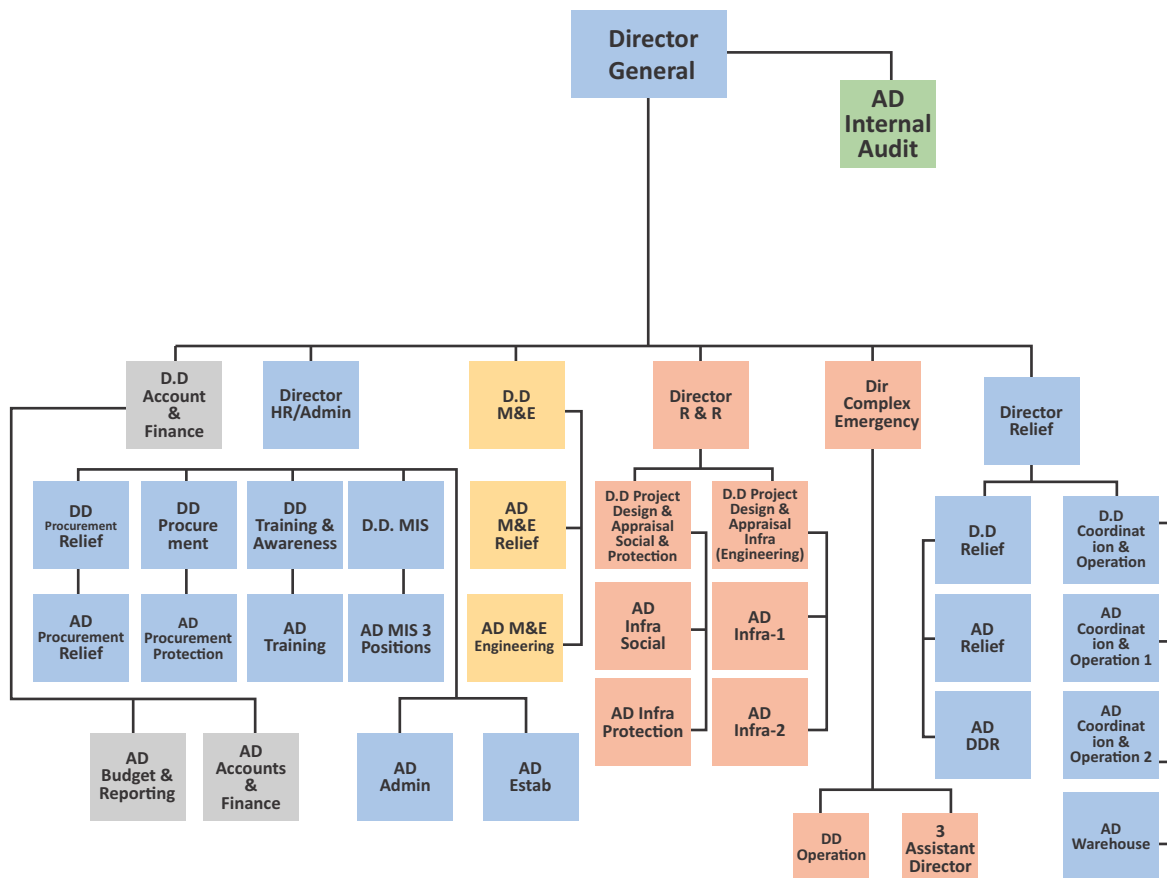
These subsequent new administrative changes have not only expanded the geographic boundaries of PDMA KP but have also enhanced its scope of work. Now it's the only PDMA in the country that has specialized wings for managing different aspects of disaster cycles. Following are the main sections of PDMA.

- i. Relief Wing (Relief, Operation, Coordination and DRM & CCA Unit)
- ii. Administration & Finance Wing
- iii. Reconstruction and Rehabilitation Wing
- iv. Complex Emergency Wing
- v. Camp Management Unit
- vi. Gender and Child Cell
- vii. Provincial Emergency Operation Cell
- viii. Training & Awareness Wing
- ix. Media Wing

Legal Framework on Disaster Risk Reduction and Climate Change Adaptation

- 1. National Disaster Management Act, 2010 and PDMA Amended Act 2012.
- 2. Provincial Emergency Services Act, 2012
- 3. Pakistan Climate Change Act, 2017 and KP Climate Change Adaptation Act 2017
- 4. Local Government Ordinance KP-LGA 2013
- 5. Pakistan Environmental Protection Act, 1997
- 6. Irrigation River Act

ORGANOGRAM OF PDMA



A vibrant blue background featuring a bright sun rising behind a layer of white, fluffy clouds. Numerous rays of light emanate from the sun, spreading across the sky. The overall color palette is a gradient of blues, from a deep navy at the bottom to a bright cyan at the top.

CHAPTER-1

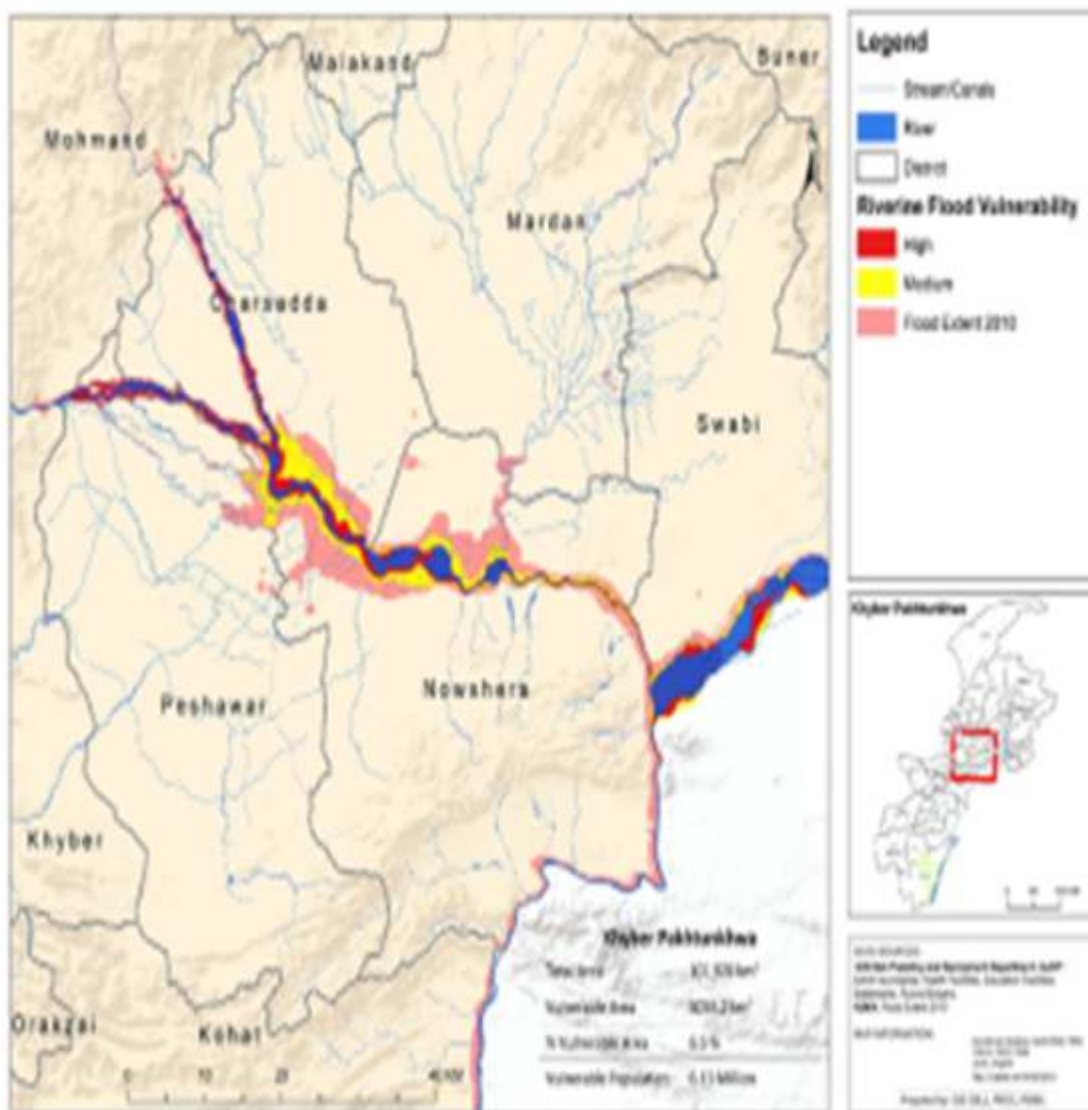
GENERAL OVERVIEW OF
KHYBER PAKHTUNKHWA

1.1 OVERVIEW OF KHYBER PAKHTUNKHWA

Khyber Pakhtunkhwa General Profile

- | | |
|--|-------------------------------------|
| • Area: 101,741 Square Km | Vulnerable area (6.5%) |
| • Population: 35.525 Million (2017 Census) | Vulnerable Population 6.33 Million) |
| • Number of Districts: 35 | Vulnerable Districts (12 Districts) |

Assessment based on 2010 Flood)



The foremost priority of Provincial Disaster Management Authority (PDMA) is to handle flood related disasters, which are caused by environmental change. These disasters make the province of Khyber Pakhtunkhwa prone to the vulnerabilities of monsoon (flash and riverine floods), therefore, it is imperative to have an integrated scientific approach to minimize the adverse impacts in time of any calamity. Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa, is utilizing available resources to channelize those with proper techniques, with the help of all the stakeholders, in order to mitigate disasters related risks and further to enhance preparedness capacities to minimize losses to floods. There is not a friction of doubt involved in the intentions of the Provincial Government that they are serious in investing in the flood management system, but, due to lack of sufficient water storage facilities, lack of effective regulations as well as due to poor early warning systems in the province, a pulsating and effective flood risk management system cannot be developed. Presently, the available early warning and forecasting of floods is based on telemetry, which is installed by WAPDA and Irrigation Department. The

existing setup of Irrigation Department can provide response time of 24-48 hours in river Swat, 5-7 hours in Kabul River and 36-48 hours in Indus River at DI Khan, which is quite insufficient time for evacuation of vulnerable communities of the areas which are on the affectee list. As far as flash floods in the mountainous regions of the province are concerned, there is no early warning system to provide them with the basic facilities on 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. The two notable reservoirs in Khyber Pakhtunkhwa, which are; Warsak Dam and Tarbela Dam. The former has lost its storage capacity long ago, due to silting and many other related issues, while the present storage capacity of the later has gone down to 6.77 MAF from its original capacity of 9.68 MAF in the past. There are three major head works including Munda, Amandara and Kurram Garhi in Khyber Pakhtunkhwa, which regulate water discharge to different tributaries of major river systems and canals in the province.

The main river of the province Khyber Pakhtunkhwa is River Indus. The upper regions of the province constitute the catchment area of this river, which in its course is joined by different tributaries originating from the Northern Areas as well as rivers like River Kabul, Swat and Kurram along with numerous other minor mountainous water channels.

Heavy snow on the northern mountains of the province causes rise in the water levels in River Swat and River Kabul, when it melts with rising temperatures during summer. During the same period the monsoon patterns also develops in the region. Heavy precipitation of monsoon results in disproportionate water flow in the rivers, resulting in floods. Flash flooding in numerous hill torrents across the province is also a common phenomenon. The simultaneous occurrence of riverine and flash floods, melting of snow, heavy precipitation

Khyber Pakhtunkhwa



and the occasional cloud burst make the situation worse.

Newly merged areas bring their own set of issues, starting with lack of early warning setups, no standard District Disaster Management Units, extreme topography, flash floods in nullahs as well as, arguably, less than required infrastructure.

As the province is faced with all these critical possible scenarios, it is of much importance to adopt an integrated approach for monsoon contingency planning, which should be considered a top priority by PDMA, Khyber Pakhtunkhwa.

1.1.1 DEMOGRAPHY

The province has a total population of about 30.52 million, according to 2017 population census by Pakistan Bureau of Statistics. But now, after merger of FATA with the Khyber Pakhtunkhwa, the population has increased to 35.53 million. Total Adult Population of the province is 17.05 million (8.69 million Males and 8.35 million Females). It has a total children population of 18.47 million (9.97 million male children, 8.49 million girl children).

There are 2.5 million senior citizens, whereas, the persons with disabilities are 142,324 (registered with Directorate of Social Welfare). While, the Urban and rural population division is 5,871,532 and 29,653,515 respectively. The overall households in the Province are 44,035,47 of which Urban consists of 75,713,8 and Rural are 36,464,09.

1.1.2 GEOGRAPHY

The province of Khyber Pakhtunkhwa is widely known for its surreal and gifted landscape and diverse terrain consisting of mountain ranges, sub mountain areas, placid plains surrounded by hills and arid zones in the south. The Hindu Kush region in the north, long noted for its scenic beauty is divided by the Kunar River into two distinct ranges: the northern Hindu Kush and the Hindu Raj. Tirich Mir rises to 25,230 feet (7,690 meters) and is the highest peak of the northern Hindu Kush. To the south of the Hindu Raj lie the rugged basins of the Panjkora, Swat, and Kandia rivers. The Lesser Himalayas and the Sub-Himalayas are situated in the eastern part of the province and form definite ranges broken by hilly country and small plains. The fertile Valley of Peshawar extends northwards along the Kabul River. Though it covers less than one-tenth of the province's area, this region contains about half of its total population. The city of Peshawar lies in the western portion of the vale and guards the historic Khyber Pass. South of the Kabul River lies the east-west-trending Spin Ghar (SafidKud) Range. The Kurram, Tochi, and Gomal rivers drain the province's southern region, and the Indus River forms part of the province's eastern border.

1.1.3 CLIMATE

The climate of the province varies with elevation. With the mountain ranges experiencing cold winters and cool summers, temperatures tend to spark towards the southern end. Precipitation over the province is variable but averages roughly 16 inches (400 mm) annually, with much of this occurring during the period from January to April.

Pakhtunkhwa varies immensely for a region of its size, encompassing most of the many climate types found in Pakistan. The province stretching southwards from the Baroghil Pass in the Hindu Kush covers almost six degrees of latitude; it is mainly a mountainous region. Dera Ismail Khan is one of the hottest places in South Asia while in the mountains to the north the weather is mild in the summer and intensely cold in the winter. The air is generally very dry; consequently, the daily and annual range of temperature is quite large. 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 fringe especially in monsoon season from mid-June to mid-September.

Rainfall trends in Khyber Pakhtunkhwa based on Climate scenarios

This analysis takes into account the annual average and seasonal average rainfall trends for all the individual districts. The province has been categorized as per three rainfall categories based on annual average rainfall received, namely Low (less than 600mm), Medium (less than 1000mm) and High (above 1000mm). This classification is shown in the following table:

Table 1: Rainfall Classification in Khyber Pakhtunkhwa by quantity (mm)

Low-Rainfall Region	Medium-Rainfall Region	High-Rainfall Region
<600mm	600-1000mm	>1000mm
Peshawar, Charsadda, Khyber, Kohat, Hangu, Kurram (lower), Karak Bannu, Lakki Marwat, DI Khan, Tank, Chitral, Mohmand, Orakzai, North and South Waziristan	Swat, Malakand, Kurram (upper), Nowshehra, Mardan, Swabi, Bajaur, Kohistan, Mansehra (Kaghan/Naran), Shangla.	Swat (Kalam), Buner, Dir (Lower and Upper), Haripur, Torghar, Abbottabad, Mansehra (South), Battagram.
2010	2040	
49% districts fall in Low rainfall zone	46% districts fall in Low rainfall zone	
28% districts fall in Medium rainfall zone	26% districts fall in Medium rainfall zone	
23% districts fall in High rainfall zone	28% districts fall in High rainfall zone	



An overall rainfall situation at present is given in the Figure 3b whereas Table 2 provides likely scenario of rainfall shifts till 2040 within and across the three rainfall regions:

(Source: Provincial Status Report, Climate Change & Water Khyber Pakhtunkhwa, initiated by P&D, funded by SDC)

1.2 FLOOD CATEGORIZATION OF MAJOR RIVERS/NULLAHS IN KHYBER PAKHTUNKHWA:

Floods usually occurs 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, therefore, in order to determine flood levels historical pattern of monsoon floods in the province have been reviewed by the Irrigation Department. It has categorized rivers in three different broad categories. Category A for instance reflects those rivers which receive floods of different magnitude frequently (every year), while category B are those rivers/streams, which receive less frequent floods, while the third category is of rivers/nullahs that experience occasional flooding situation as a result of heavy concentrated rainfall in their catchment areas.



(Source: Irrigation Monsoon Plan 2019)

1.3 HAZARD AND RISK ANALYSIS

The province of Khyber Pakhtunkhwa, is highly vulnerable to different natural disasters on account of its unique geo-climatic conditions. Earthquakes, floods, droughts (in some parts), and landslides have been some of the recurrent phenomena. Earthquake 2005 and 2015 and Floods 2010 can sufficiently highlight Khyber Pakhtunkhwa's vulnerability to natural disasters; like, earthquakes, flash & riverine floods caused by heavy precipitation. Historical records, when we evaluate them, can indicate earlier occurrence of similar emergency and disaster situations. This is an obvious fact that Khyber Pakhtunkhwa's different districts are exposed and vulnerable to different kinds of hazards in their course of existence. The unprecedented nature of different floods in the history of this province cannot be ignored because these natural disasters, in shape of floods, caused occurrence of unregulated and overflow of rivers which disturbed their flow patterns further resulted in their widened spans and finally erosions. Keeping all these natural occurrence and disasters in mind, PDMA, KP has worked out the identification of all districts that are vulnerable to any kind of floods and different other disasters. Many of the districts are prone and vulnerable to floods, which, if happen, can wreak havoc and can adversely impact all the infrastructure and population in those vulnerable districts. Risk can be mitigated with proper measures, for which PDMA, Khyber Pakhtunkhwa has worked out different schemes and plans to reduce vulnerability of those districts at risk.

1.4 FLOOD PROFILE OF KHYBER PAKHTUNKHWA

The Province of Khyber Pakhtunkhwa is the smallest province of Pakistan in terms of geographic area. It constitutes 12.7 % of the country's total area and is spread over 101,741 square kilometers (after merger of Tribal Districts). It laps both banks of the river Indus and stretches from the Himalayas in the north to the deserts of DI Khan in the south, where it is bordered by the Baluchistan and Punjab provinces. It has a total of 35 districts which are further divided into 113 Tehsils and 986 UCs. The total number of Mouzas/villages is 7335 as per 2017 census.

Indus and Kabul are the two major river systems in Khyber Pakhtunkhwa. The Indus River forms the boundary with Punjab and passes from Attock to Dera Ismail Khan in the south, while River Kabul flows down from Afghanistan to join the Indus River. Rainfall in Khyber Pakhtunkhwa generally occurs in two distinct crop-growing seasons: Rabbi (winters, December – March) and Kharif (summers, June– September). Normally the monsoon arrives in the first or second week of June, but due to the changed weather patterns, the cycle of monsoon can vary. During monsoon the riverine floods occur in river Kabul, Swat and Indus that affect the central & western populated districts, while flash floods also occur astride these rivers resulting in colossal losses sometimes.

Floods in Khyber Pakhtunkhwa are generally caused by heavy concentrated rainfall in the catchments of Rivers Indus, Swat and Kabul during the monsoon season, which is augmented by snowmelt. Major floods occur in late summer (July to September) when the South Asian region is subjected to heavy monsoonal rains. Major floods in the province have occurred in 1976, 1982, 1988, 1992, 2005, 2006, 2007 and 2010.

Flash floods, with all its catastrophic nature, have continuously been affecting the province for the last few years during Monsoon season. Its likelihood of occurrence has increased in the recent years due to changing weather patterns, with all the stressing humanitarian costs, due to absence of early warning system and sudden onset of such occurrences in the province. Moreover, most regions, which are vulnerable to flash flooding, lie outside the coverage of the early warning system, being deployed for riverine floods. Flash floods are experienced commonly in Swat, Upper and Lower Dir, Chitral, Shangla, Kohistan, Peshawar, Mansehra, Battagram, Mardan, Kohat and D.I Khan.

Khyber Pakhtunkhwa's peculiar physical configuration and topography makes it vulnerable to multiple hazards related to monsoon rains. Heavily populated districts constitute catchment areas of major rivers

where their tributaries proliferate, thus creating flash floods vulnerability. Some districts are traversed by fully formed, mature rivers and they are vulnerable to spill over impact during floods. Physical configuration of northern and northeastern portion of the province is excessively mountainous spanning from Chitral up in the north to districts of Upper and Lower Dir, Shangla, Swat and Mansehra which are prone to flash flooding, cloud bursts, Glacial Lake Outburst Floods (GLOFs) and land sliding. Therefore, depending on the intensity of monsoon precipitation as well as snow melt, Khyber Pakhtunkhwa is vulnerable to both sudden and expected hydro-meteorological disasters which require an integrated and quick response.

1.4.1 TIME LAG OF MAJOR RIVERS IN KHYBER PAKHTUNKHWA

(Source: Irrigation Department)

S No.	LOCATION	DISTANCE(KM)	TIME LAG
1	Swat/Khiali River		
i.	Khawaza Khela to Amandara	65	12 Hours
ii.	Amandara to Munda	55	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

1.4.2 FLOOD VULNERABILITY MATRIX OF KHYBER PAKHTUNKHWA

S.No	District	Flood Hazard	Riverine Flood	Flash Flood	Urban Flood	Land Slide	Avalanche	GLOF
1	Charsadda	V. High	Yes	No	No	No	No	No
2	D. I Khan	V. High	Yes	Yes	Yes	No	No	No
3	Peshawar	High	Yes	No	Yes	No	No	No
4	Shangla	V. High	Yes	Yes	No	Yes	Yes	Yes
5	Kohistan U	High	Yes	Yes	No	Yes	Yes	Yes
6	Kohistan L	High	Yes	Yes	No	Yes	Yes	Yes
7	Kohistan (Pattan)	High	Yes	Yes	No	Yes	Yes	Yes
8	Nowshera	V. High	Yes	Yes	Yes	No	No	No
9	Swat	V. High	Yes	Yes	Yes	Yes	Yes	Yes
10	Tank	High	Yes	Yes	No	No	No	No
11	Dir Upper	High	Yes	Yes	No	Yes	Yes	Yes
12	Buner	Medium	No	Yes	No	Yes	Yes	No
13	Chitral (U)	Medium	Yes	Yes	No	Yes	Yes	Yes
14	Chitral (L)	Medium	Yes	Yes	No	Yes	Yes	Yes
15	Dir Lower	Medium	Yes	Yes	No	Yes	No	No
16	Malakand	Medium	Yes	Yes	No	Yes	No	No
17	Mansehra	Medium	Yes	Yes	No	Yes	No	No

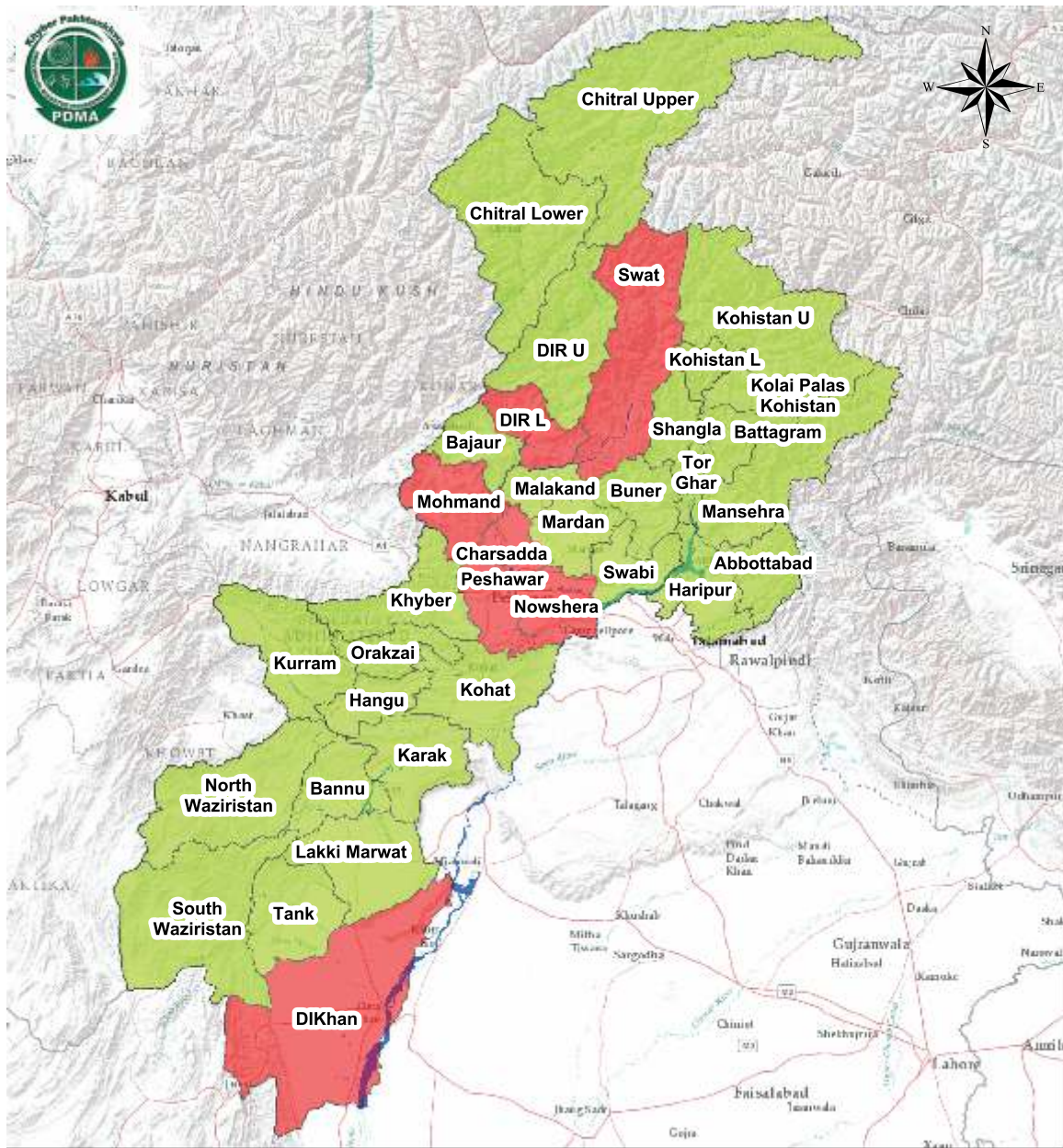
18	Torghar	Medium	Yes	Yes	No	Yes	Yes	No
19	Mardan	Medium	Yes	No	Yes	No	No	No
20	Swabi	Medium	Yes	Yes	No	Yes	No	No
21	Abbottabad	Low	No	Yes	No	Yes	No	No
22	Bannu	Low	Yes	No	No	No	No	No
23	Battagram	Low	No	Yes	No	Yes	No	Yes
24	Hangu	Low	No	Yes	No	No	No	No
25	Haripur	Low	No	No	No	Yes	No	No
26	Karak	Low	No	Yes	No	No	No	No
27	Kohat	Low	No	No	Yes	Yes	No	No
28	Lakki marwat	Low	Yes	No	No	No	No	No
29	Bajaur	High	Yes	Yes	No	Yes	No	No
30	Mohmand	High	Yes	Yes	No	Yes	No	No
31	Khyber	Medium	Yes	Yes	No	Yes	No	No
32	Orakzai	High	No	No	No	Yes	No	No
33	Kurram	High	Yes	Yes	No	Yes	No	No
34	NW	Medium	No	No	No	Yes	No	No
35	SW	Low	Yes	Yes	No	No	No	No

1.4.3 MONSOON VULNERABILITIES OF THE DISTRICTS:

Based on the data of super flood 2010 and past experiences in subsequent years, PDMA has categorized the districts based on their vulnerability for the year 2019 as under:

Flash Floods	GLOF	Riverine Floods	Urban Flooding	Heavy Rain Fall/ Hail storm/Windstorms	Land sliding
1.Chitral	Chitral	Nowshera	Peshawar	Mansehra	Abbotabad, Mansehra
2.Swat	Swat	Charsadda	Mardan	Abbotabad	Haripur
3. Kohistan (Upper/Lower)	Kohistan (Upper)	Peshawar	Abbotabad	Buner	Chitral Kohistan (L+U)
4. Shangla	Mansehra	DI Khan	DI Khan	Kohat	Shangla
Battagram	Dir (Upper)	Swat	Swat	Karak	Dir lower
Dir (Upper & Lower)		Mohmand	Mansehra	Bannu	Swat
Malakand		Lower Dir	Haripur	Lakki Marwat	Battagram
Mansehra			Kohat	DI Khan	Buner Kurram, Orakzai,
Buner					South Waziristan
Khyber, Bajaur, North & South Waziristan, Kurram & Orakzai					

KHYBER PAKHTUNKHWA - RIVERINE FLOOD MAP



Legend

RIVERINE FLOOD

- Vulnerable Districts
- Non-Vulnerable Districts
- River

SCALE: 1:2,500,000

0 50 100 200 KM

Coordinate System: WGS 1984
Projection: Mercator Auxiliary Sphere
Datum: WGS 1984
Units: Meter

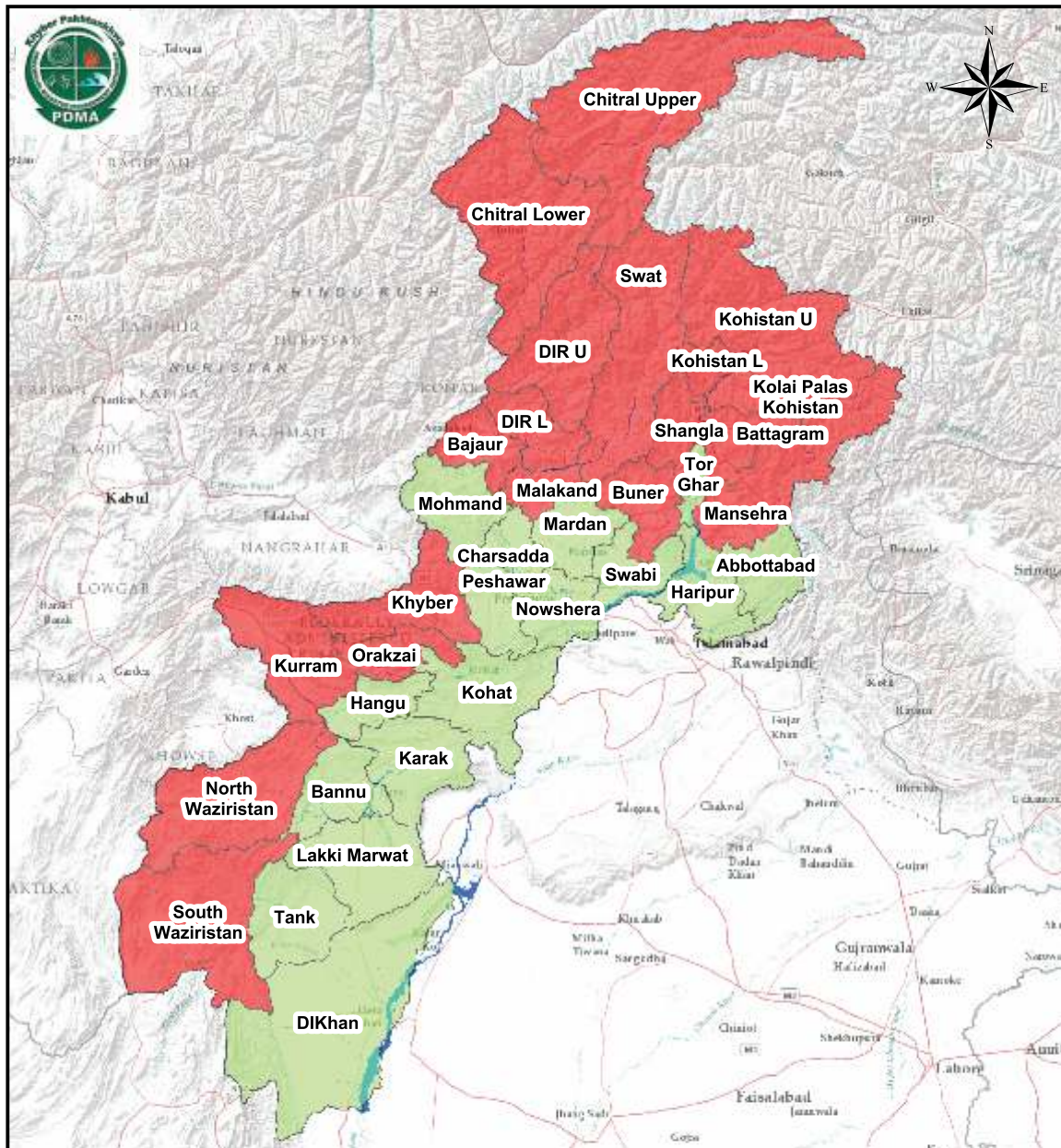
Map Locator



DATA SOURCE: NATIONAL MONSOON CONTINGENCY RESPONSE DIRECTIVES 2019

Prepared by GIS Cell PDMA

KHYBER PAKHTUNKHWA - FLASH FLOOD HAZARD MAP

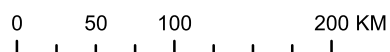


Legend

FLASH FLOOD

- Vulnerable Districts
- Non-Vulnerable Districts
- River

SCALE: 1:2,500,000



Coordinate System: WGS 1984
Projection: Mercator Auxiliary Sphere
Datum: WGS 1984
Units: Meter

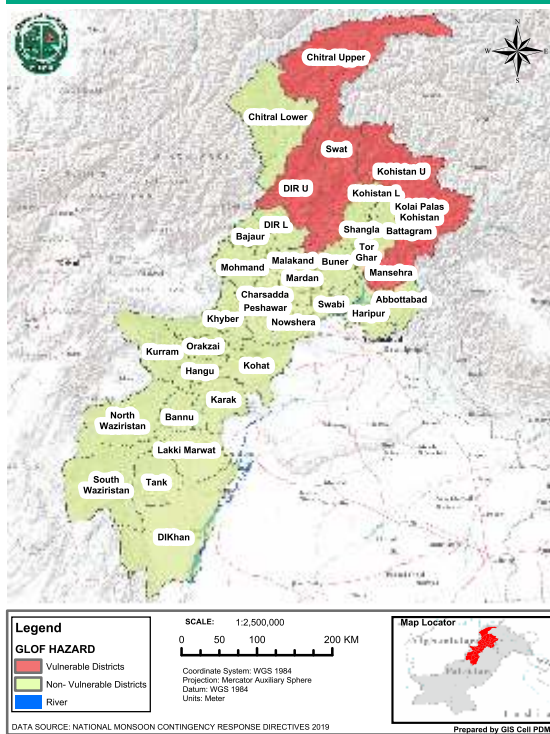
Map Locator



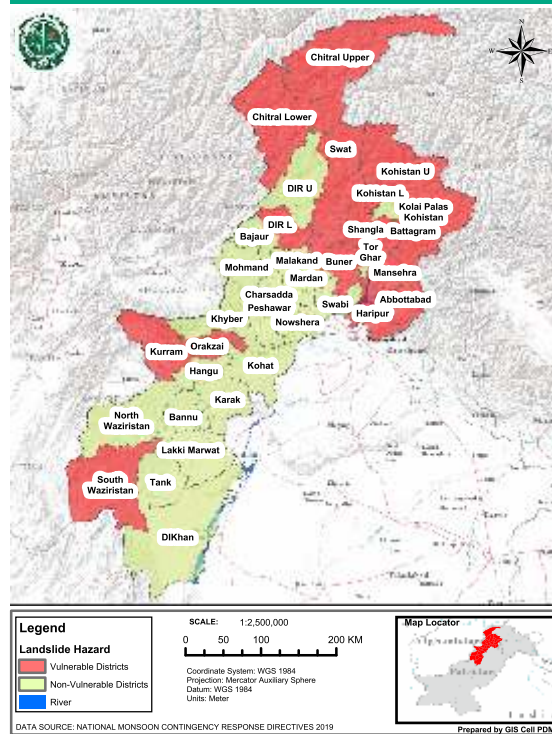
DATA SOURCE: NATIONAL MONSOON CONTINGENCY RESPONSE DIRECTIVES 2019

Prepared by GIS Cell PDMA

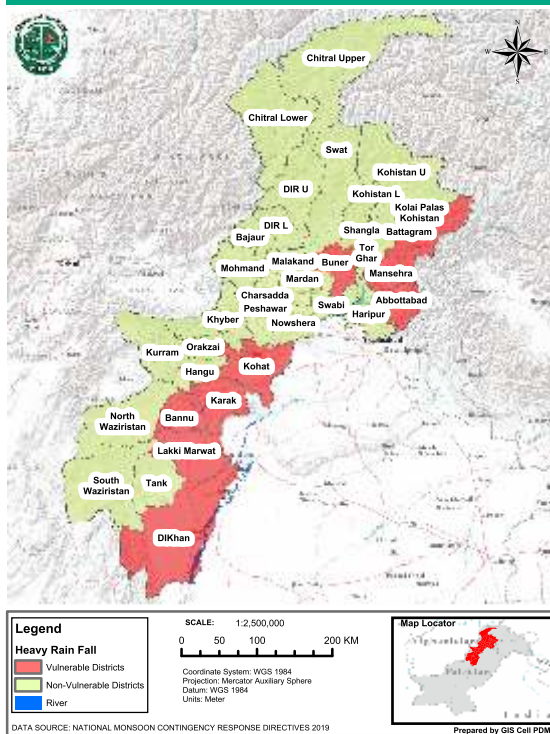
KHYBER PAKHTUNKHWA - GLOF HAZARD MAP



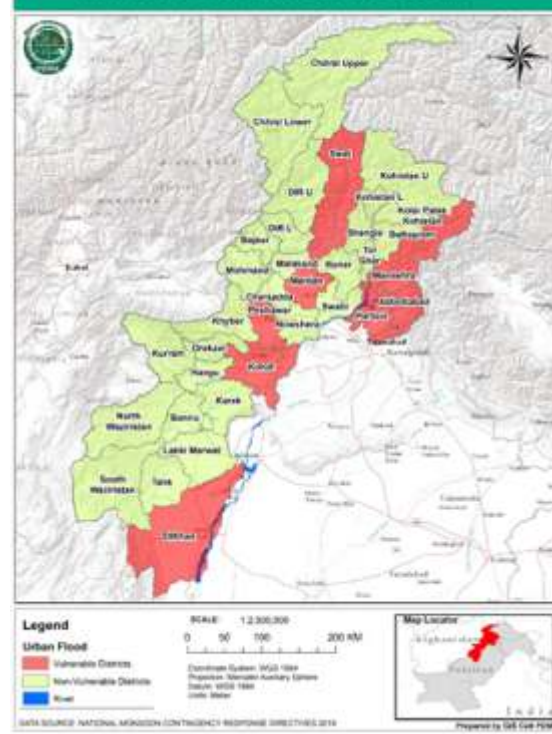
KHYBER PAKHTUNKHWA - LANDSLIDE VULNERABILITY MAP



KHYBER PAKHTUNKHWA - HEAVY RAIN FALL/HAILSTORM/WINDSTORM MAP



KHYBER PAKHTUNKHWA - URBAN FLOOD MAP



1.4.4 DISTRICT WISE VULNERABLE POPULATION

Below is the glimpse of vulnerable Union Councils and population at risk, as mapped in the district contingency plans. (Based on information received from DDMOs with a *base scale 2010*)

S.No	District	Vulnerable UCs	At Risk Population	Total population (2017 Census)	Vulnerable population at risk index %
1	Swat	40	1,015,198	2,309,570	43.96
2	Dir Upper	15	899,593	946,421	95.05
3	Peshawar	24	858,098	4,269,079	20.1
4	D.I Khan	15	641,000	1,627,132	39.39
5	Charsadda	24	527,434	1,616,198	32.63
6	Nowshera	28	450,584	1,518,540	29.67
7	Mardan	5	360,108	2,373,061	15.17
8	Dir Lower	10	315896	1,435,917	22
9	Mansehra	18	306321	1,556,460	19.68
10	Bannu	11	305037	1,167,892	26.12
11	Shangla	19	291062	757810	38.41
12	Kohat	7	227301	993,874	22.87
13	Swabi	10	196,000	1,624,616	12.06
14	Malakand	5	192,000	720295	26.66
15	Haripur	7	171,946	1,003,031	17.14
16	Battagram	5	139,271	476,612	29.22
17	Kohistan (Upper)	9	135002	222,328	60.72
18	Chitral (upper)	8	128500	169,240	75.93
19	Chitral (lower)	7	123500	278122	44.4
20	Hangu	6	114,406	518,798	22.05
21	South Waziristan	12	102000	679185	15.02
22	Karak	5	101,535	706,299	14.38
23	Buner	10	90,900	897,319	10.13
24	Kohistan lower	6	65733	202,933	32.39
25	Mohmand	5	46000	466,984	9.85
26	Kohistan pattan	4	45000	202,933	22.17
27	Tank	11	45000	391,885	11.48
28	Lakki Marwat	9	32,400	876,182	3.7
29	Bajaur	3	30000	1094000	2.74
30	Abbottabad	2	25000	1,303,300	1.92
31	Khyber	8	24000	111,558	21.51
32	Torghar	7	23250	171,395	13.57
33	Kurram	4	21546	619553	3.48
34	Orakzai	3	15000	254356	5.9
35	North Waziristan	10	5000	543245	0.92
Total		372	63,32,621	35,531,123	17.82%



CHAPTER-2

WEATHER OUTLOOK AND
CLIMATE IMPACT ON
KHYBER PAKHTUNKHWA



2.1 PAKISTAN METEOROLOGICAL DEPARTMENT'S WEATHER OUTLOOK FOR MONSOON, 2019:

Pakistan Meteorological Department (PMD) is one of the autonomous and independent institution, which is being tasked with providing the weather forecasts and outlook for public warning, in order to protect, to provide safety as well as general information regarding all the occurrences of weather in the province. Apart from the tasks of meteorology, it is also involved to monitor and investigate weather phenomena, different events in the climate and weather, hydrology of the province as well as research in climate changes and on aeronautical engineering, to provide firsthand information to the concerned departments and to make the masses aware regarding all the shifts in weather patterns.

Weather forecast / monsoon outlook 2019 (15th July to 15th Sept)

- i. Weather Outlook/Forecast for Monsoon 2019 is yet to be Issued by PMD
- ii. As per Regional Meteorological Center Peshawar, unofficial version;
- iii. KP, Kashmir and GB would have above normal monsoonal phenomena
- iv. Rest of Pakistan would have below normal
- v. At end of July and August western disturbance system may cause fair chances of flash flood in Chitral, Dir, Upper Swat, Kohistan and Mansehra

Note: Due to prevailing uncertainties in climate system dynamics, the monsoon seasonal forecast will be updated on monthly basis during the first week of each month, which is a prevailing practice.

(Source: Pak Met Dept.)

2.2 CLIMATE CHANGE IMPACTS ON KHYBER PAKHTUNKHWA:

Khyber Pakhtunkhwa (KP), being a topographically diverse province of Pakistan, situated in the northwest region of the Pakistan. The province of Khyber Pakhtunkhwa, being different in many aspects from the rest of the provinces, has extreme weather conditions due to its climatic variations. The northern areas of the province are cold in winters and mild during summers, while, at the same time, the temperature becomes warmer in the southern part of the province as well as in Peshawar valley during summers season. Heat waves are expected in the province due to the recent variations in the climate. Furthermore, it also affects and reduces the availability of fresh water, which further affect the inflows of waters into the rivers and dams.

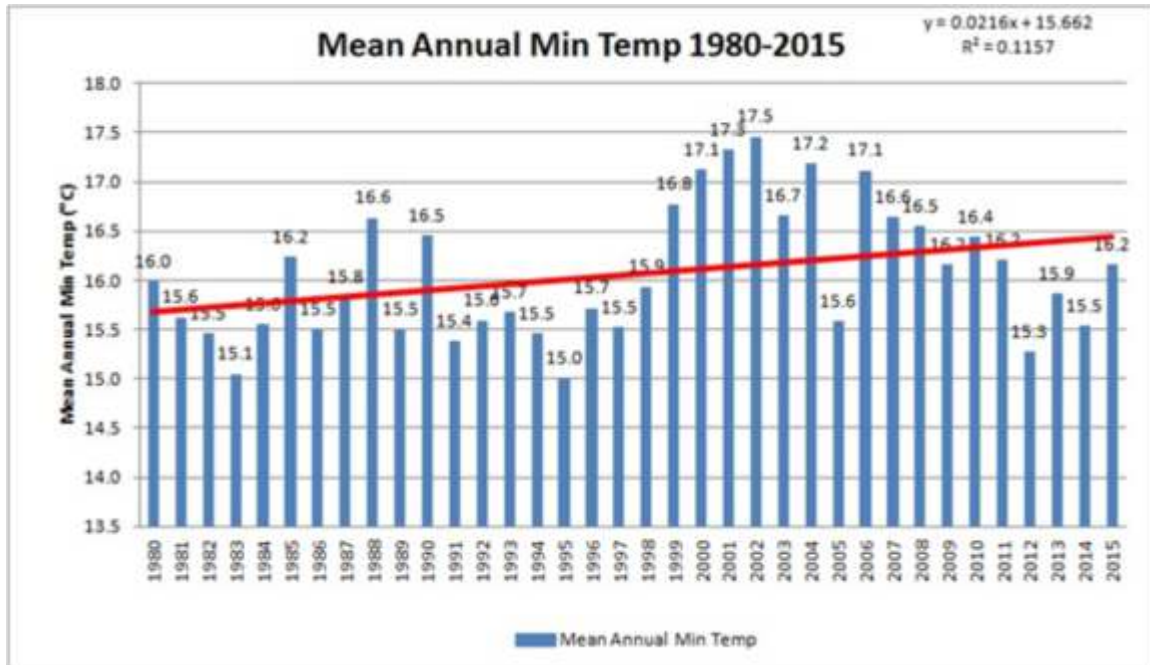
According to a report of Pak Met department, the slope of the mean annual temperature over Pakistan during the last 48-year period (1960-2007) was found as:

- i. 1901-2000 0.6 Celsius
- ii. 1960-2007 0.24 Celsius

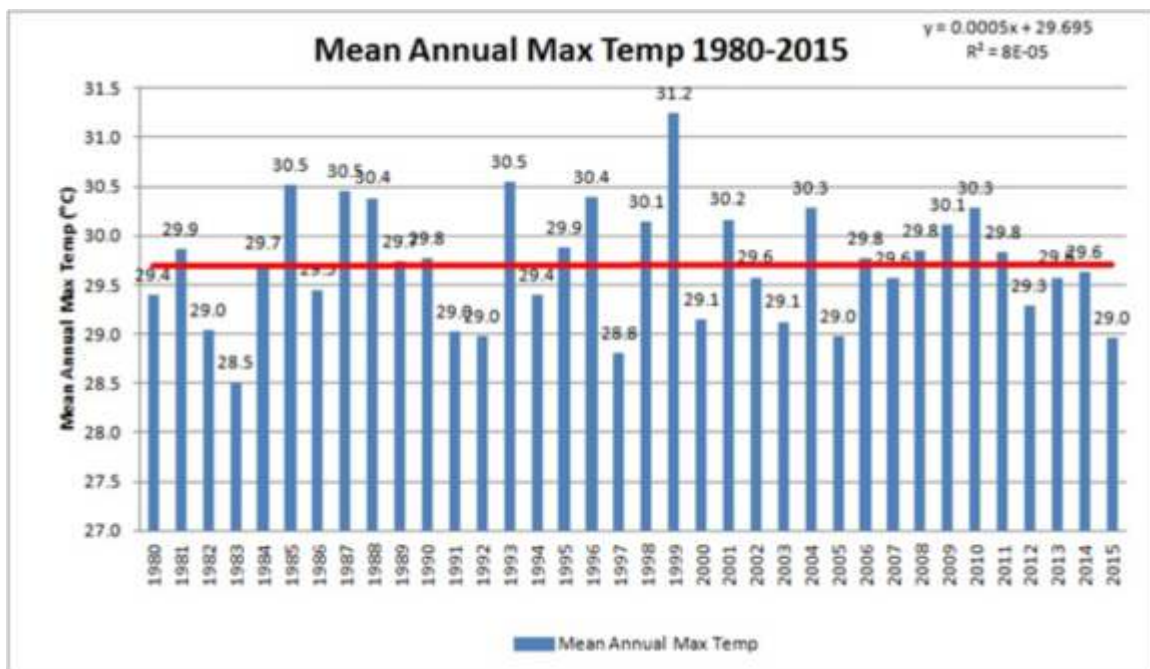
(The rate of increase is higher than the global average slope of 0.17 Celsius)

At the same time and by applying the same measures, the temperature of KP has drastically changed due to climate changes and variations because it is evident from the annual rise in temperature, observed in the region. While, the rainfall has reduced gradually, and most parts receive lesser rainfall in the monsoon season, however, the erratic rainfall pattern as a result of El-Nino, is of prime concern. So, the probability of flash floods increases with the erratic weather behavior, that poses serious challenges for the downstream densely populated communities and the infrastructure thereof.

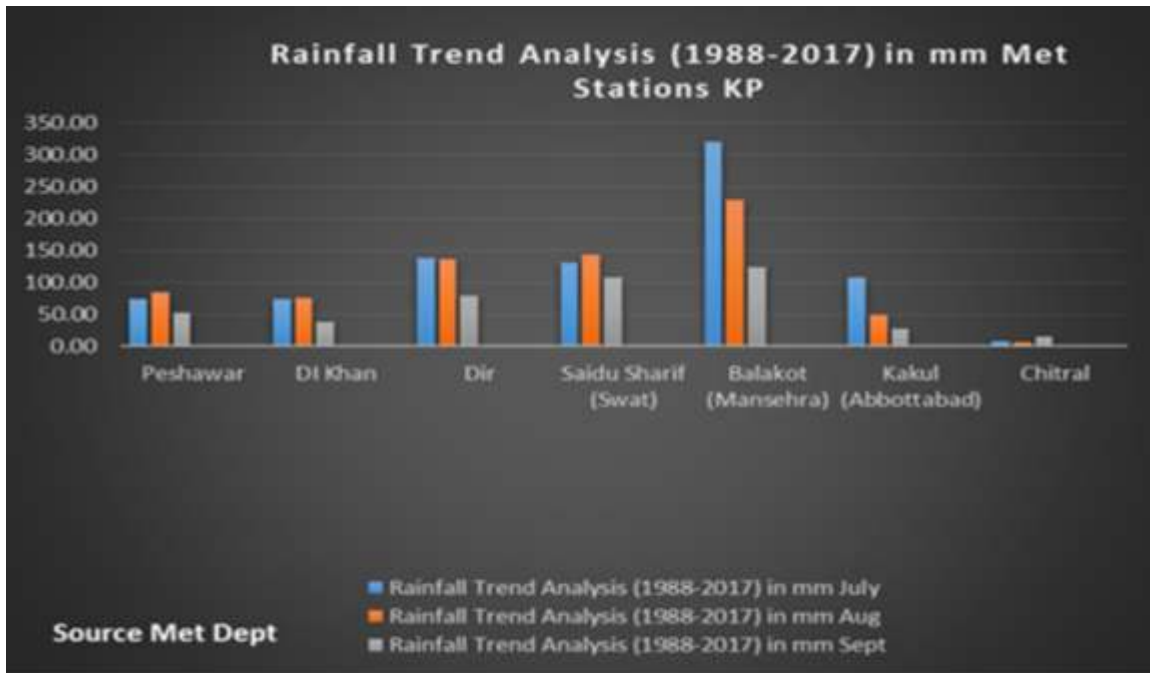
Another factor of concern is that, the rising temperatures in the northern parts have increased the chances of GLOF (Glacial Lake Outburst Flood) to happen. As a result, severe to minor GLOF incidents have occurred in District Chitral, which inflicts damages to human lives as well as infrastructures in that particular district. The Upper areas are cutoff during that particular periods, which creates challenges for relief activities in the all the affected areas. Valleys, which are near to glacial lakes in the Hazara and Malakand regions, are the most vulnerable to GLOF and can result in similar kind of losses.



Similarly, increment in mean minimum and mean maximum temperatures have also been observed. As a result, glaciers would melt rapidly than before for which adaptation is required, which includes construction of small dams and reservoirs, in order to store water before it escapes to the Indian Ocean. It has been observed so far that irregularity in the precipitation and seasonal shifts and weather patterns, increasing trends in both mean minimum and maximum temperatures have been noticed. Although, the changes occurred in temperature look very small but they are posing serious threats to global security in the form of climate change.



Rainfall observations at different Met Stations, across the province, have recorded the following rainfall pattern (month wise) during the monsoon season (15 June to 15 Sept). The Annual Mean Averages of the rainfall are recorded as following:-



The table shows average rainfall during the months of monsoon season, which reflects, that Mansehra, Swat and Abbottabad receives more rainfall comparatively than the rest of the province during the monsoon season, while, Chitral receives very low rainfall during the same period. However, a recent trend of pre-monsoon rainfall has been observed with erratic rainfall behavior in the province, which can generate urban flooding due to poor drainage system and flash floods in the hilly areas.

2.3 FLOOD – 2010 HISTORICAL COMPARISON

Rain Fall

Area	Annual Average Rain	Rain from 28 July to 3 rd August (7 Days) (in mm)
Peshawar	400 mm	333 mm
Khyber Pakhtunkhwa	962 mm	3462 mm

Rivers	Max Flow Recorded before 2010	2010 Floods Levels
Swat @ Amandara	160,000 cusecs (1929)	260,000 cusecs
Swat @ Munda	170,000 cusecs (1929)	302,517 cusecs
Kabul River @ Nowshera	169,000 cusecs (2005)	450,000 cusecs
Indus @ Khairabad	900,000 cusecs (1929)	1,100,000 cusecs

2.3 DISASTER RISK REDUCTION (DRR) AND CLIMATE CHANGE ADAPTATION (CCA)

Disaster risk reduction is a practice to reduce risk through analyzing risk and their casual factors, reducing exposures and vulnerabilities of people and assets to hazards, improving landscapes for managing disasters events through mitigation measures and to develop preparedness capabilities of government and society.

Climate change adaptation is a series of processes and practices, which helps in reducing the potential damages associated with climate induced events. It includes adjustment of ecological and socio-economic systems to respond to expected climate change impacts. It also focuses on reducing and managing risks associated with erratic unpredictable metrological hazards.

2.3.1 HARNESSING SYNERGIES BETWEEN DRR AND CCA

As it has been observed that there are substantial similarities between DDR and CCA efforts being made by communities and government. Therefore, there is high need to bring synergies between these two phenomena, as the later complements the former one.

- i. It helps in duplication of efforts and redundancies
- ii. It helps in reduces potential conflicts in policy development and formulation
- iii. It helps in using resources more efficiently for the same one goal of reducing impacts over society
- iv. Recognition at society and governmental level for convergence DRR and CCA

2.3.2 MULTI HAZARD APPROACH ADAPTATION FOR SYNERGIES:

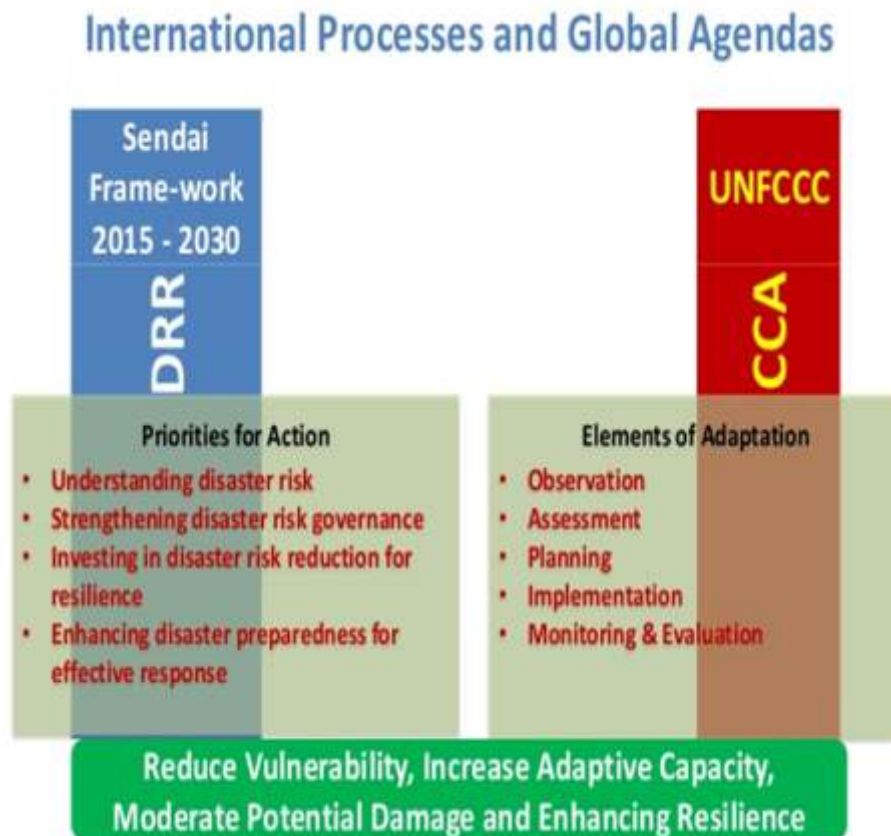


2.3.3: TOWARDS RISK MANAGEMENT FOR DRR-CCA



2.3.4 DRR-CCA RISK MANAGEMENT GLOBAL FRAMEWORK

The same adaption strategy is followed by the Provincial Government of Khyber Pakhtunkhwa



Stay away from trees, buildings, electric wires and poles during natural disasters.

قدرتی آفات کی صورت میں درختوں، عمارتوں، بجلی کی تاروں اور کھمبوں سے دور رہیں۔



Provincial Disaster Management Authority
Khyber Pakhtunkhwa



A stylized illustration of a bright sunburst with rays of light in shades of yellow and green, emerging from behind a layer of soft, white and light blue clouds. The background is a gradient of blue, transitioning from a lighter blue at the top to a darker blue at the bottom.

CHAPTER-3

SCENARIOS AND
CORRESPONDING CASELOADS



3.1 SCENARIOS AND CORRESPONDING CASELOADS:

For better understanding of flood impacts on the vulnerable communities, it is vital to develop projected scenarios, which may help in identifying:

- The pre-impact vulnerability conditions,
- The event-specific conditions that establish the level of disaster impact,
- Suitable emergency management actions, and,
- 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, social 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 district administrations, along with mathematical calculation of the expected population so that the desired steps would be taken in times of emergencies.

MATRIX RANKING EXERCISES FOR DISTRICT WISE RESOURCE ALLOCATION FOR MONSOON SEASON 2019:

S.No	Name of District	A: Likelihood of Flood Event	B: Impact on Population	C: Impact on Livelihood	D: Infrastructure	E: Accessibility of the Area	Risk Ranking of a District (A+B+C+D+E)
		0= None, 1=Rare, 2=Occasional 3= Frequent	0= No impact, 1= Limited, 2=Substantial, 3= Major	0= No Impact, 1= Limited, 2=Substantial 3= Major	0= No impact, 1= Limited, 2= Substantial, 3= Major	0= V. Close, 1= Close, 2= Medium, 3= Remote	
1	Chitral (Upper)	3	3	3	3	3	15
2	Charsadda	3	3	3	3	1	13
3	Kohistan (Upper)	3	2	2	3	3	13
4	Nowshera	3	3	3	3	1	13
5	Shangla	3	2	2	3	3	13
6	Dir Upper	3	2	2	3	3	13
7	Chitral (Lower)	3	2	2	2	3	12
8	Tank	2	2	2	2	2	12
9	Malakand	2	2	2	3	2	11
10	D.I Khan	3	2	2	2	2	11
11	Swat	3	2	2	2	2	11
12	Dir Lower	3	2	2	2	2	11
13	Torghar	2	2	2	2	3	11
14	Kohistan (Lower)	2	3	2	2	1	10
15	Kohistan (Pattan)	2	2	2	2	2	10
16	Peshawar	3	2	2	2	1	10
17	Mohmand	2	1	2	2	2	9
18	South Waziristan	2	1	1	2	3	9

19	Mansehra	2	1	1	2	2	8
20	Khyber	2	2	2	1	1	8
21	Kurram	2	1	1	1	3	8
22	Orakzai	1	1	1	1	3	7
23	North Waziristan	1	1	1	1	3	7
24	Battagram	1	1	1	1	3	7
25	Abbottabad	2	1	1	1	2	7
26	Karak	2	1	1	1	2	7
27	Kohat	2	1	1	1	1	6
28	Lakki Marwat	2	1	1	1	1	6
29	Bannu	1	1	1	1	1	5
30	Buner	1	1	1	1	1	5
31	Hangu	1	1	1	1	1	5
32	Mardan	1	1	1	1	1	5
33	Bajaur	1	1	1	1	2	5
34	Swabi	1	1	1	1	1	5
35	Haripur	1	1	1	1	1	4

(Based on data of PEOC for the last three years)

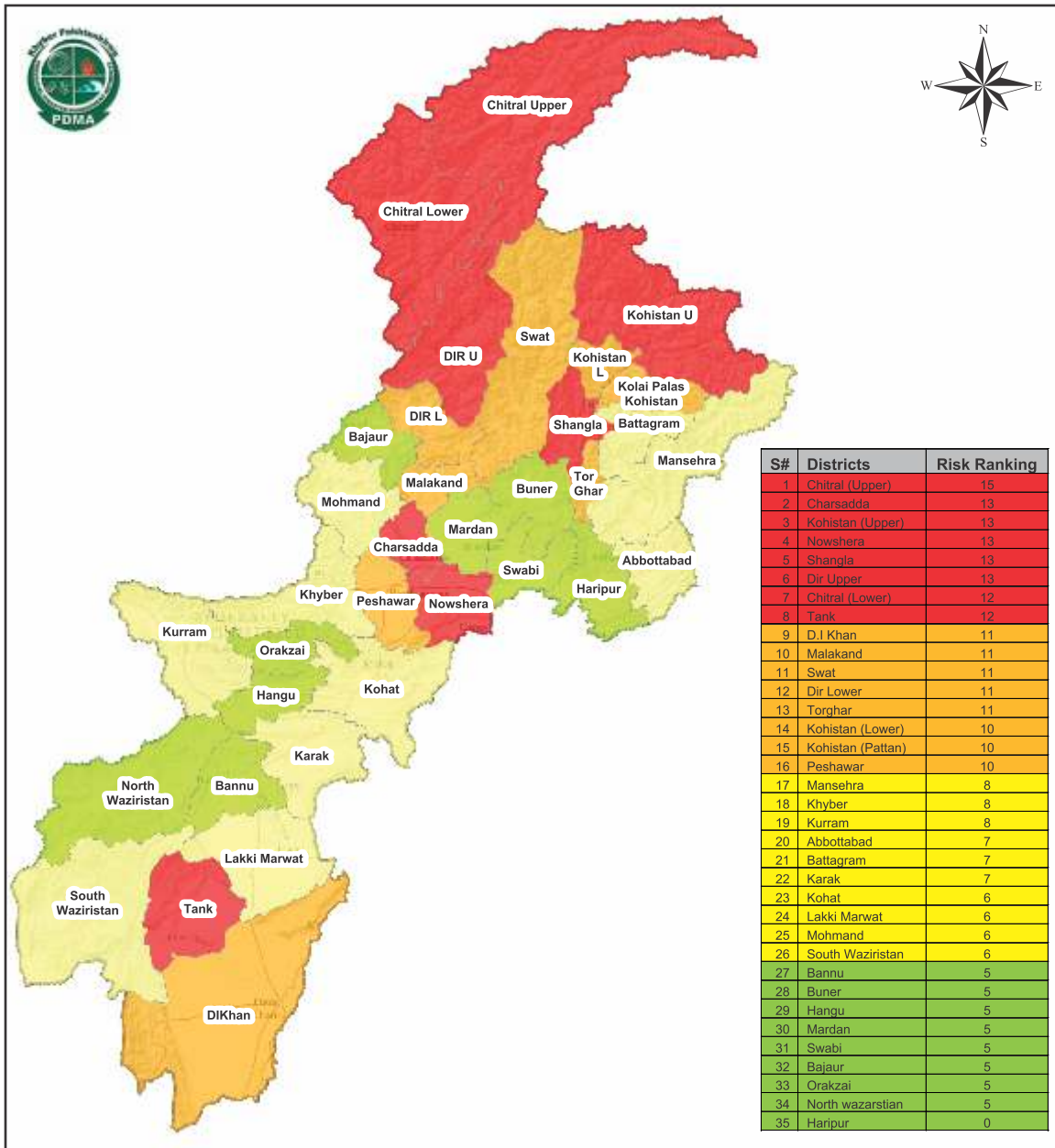
This framework has been developed to provide an understanding for identifying vulnerabilities on the basis of 05 variables.

- 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.

It uses 04 values for assessing the impacts 03 for major impact, 02 for moderate impact and 01 for limited impact.

This framework is used to quantify the level of vulnerabilities of districts to flood events during monsoon season in the province of KP. It is based on dataset available in PEPC-PDMA 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 Division have accessibility issues and remain cut off from mainland, which creates challenges in swift emergency response.

KHYBER PAKHTUNKHWA - FLOOD RISK RANKING MAP



Legend

Flood Risk Ranking

- Low (0 - 5)
- Medium (6 - 8)
- High (9 - 11)
- Very High (12 - 15)

SCALE:

1:2,500,000

0 50 100 200 KM

Coordinate System: WGS 1984
Projection: Mercator Auxiliary Sphere
Datum: WGS 1984
Units: Meter



DATA SOURCE: NATIONAL MONSOON CONTINGENCY RESPONSE DIRECTIVES 2019

Prepared by GIS Cell PDMA

After consideration of the above-mentioned factors, projected scenarios for upcoming monsoon season are below.

3.2 DISTRICT-WISE RELIEF CASELOAD

(Based On 2010 Data, Supplemented By Score From Matrix Index) For Monsoon 2019 (June – September 2019)

S.No	Districts	Affected HH High Impact Floods (Assumed for 2019)	Affected HH Medium Impact Floods (Assumed for 2019)	Affected HH Low Impact Floods (Assumed for 2019)
1	Abbottabad	3571	1190	397
2	Bajaur	4286	1429	476
3	Bannu	7768	2589	363
4	Battagram	19895	6631	2210
5	Buner	12985	4328	1443
6	Charsadda	85577	28525	9508
7	Chitral (lower)	17642	5880	1960
8	Chitral (upper)	18357	6119	2039
9	D.I Khan	14737	4912	1637
10	Dir Lower	4512	1504	501
11	Dir Upper	128067	42689	14229
12	Hangu	16343	5448	1815
13	Haripur	24563	8187	2729
14	Karak	14505	4835	1612
15	Khyber	3429	1143	381
16	Kohat	4732	1577	525
17	Kohistan (Upper)	19286	6428	2142
18	Kohistan lower	9390	3130	1043
19	Kohistan pattan	6428	2142	714
20	Kurram	3078	1026	342
21	Lakki Marwat	4628	1543	514
22	Malakand	27428	9142	3047
23	Mansehra	3448	1150	383
24	Mardan	51444	17148	5716
25	Mohmand	6571	2190	730
26	North Waziristan	714	238	79
27	Nowshera	52894	17631	5877
28	Orakzai	2142	714	238
29	Peshawar	122585	40861	13620
30	Shangla	15202	5068	1689
31	South Waziristan	14571	4857	1619
32	Swabi	33571	11190	3730
33	Swat	145028	48342	16114
34	Tank	6428	2142	714
35	Torghar	3321	1107	369
Total		909126	303035	100505

3.3-a THE HIGH IMPACT SCENARIO

The high impact scenario corresponds to flood 2010 with similar caseloads though its realization seems improbable as per PMD opinion. On the other hand, its occurrence cannot be ruled out. However, the Planning parameters will be based on the 2010 experiences.

S.No	District	Affected Households (HH)	Tents	Plastic Sheets	Blankets	Hygiene Kits	Kitchen Set	Water Cooler	Buckets	Tarpaulin	Stoves
1	Abbottabad	3571	1071.3	7142	10713	3571	3571	3571	7142	7142	3571
2	Bajaur	4286	1285.8	8572	12858	4286	4286	4286	8572	8572	4286
3	Bannu	7768	2330.4	15536	23304	7768	7768	7768	15536	15536	7768
4	Battagram	19895	5968.5	39790	59685	19895	19895	19895	39790	39790	19895
5	Buner	12985	3895.5	25970	38955	12985	12985	12985	25970	25970	12985
6	Charsadda	85577	25673.1	171154	256731	85577	85577	85577	171154	171154	85577
7	Chitral (lower)	17642	5292.6	35284	52926	17642	17642	17642	35284	35284	17642
8	Chitral (upper)	18357	5507.1	36714	55071	18357	18357	18357	36714	36714	18357
9	D.I Khan	14737	4421.1	29474	44211	14737	14737	14737	29474	29474	14737
10	Dir Lower	4512	1353.6	9024	13536	4512	4512	4512	9024	9024	4512
11	Dir Upper	128067	38420.1	256134	384201	128067	128067	128067	256134	256134	128067
12	Hangu	16343	4902.9	32686	49029	16343	16343	16343	32686	32686	16343
13	Haripur	24563	7368.9	49126	73689	24563	24563	24563	49126	49126	24563
14	Karak	14505	4351.5	29010	43515	14505	14505	14505	29010	29010	14505
15	Khyber	3429	1028.7	6858	10287	3429	3429	3429	6858	6858	3429
16	Kohat	4732	1419.6	9464	14196	4732	4732	4732	9464	9464	4732
17	Kohistan (Upper)	19286	5785.8	38572	57858	19286	19286	19286	38572	38572	19286
18	Kohistan lower	9390	2817	18780	28170	9390	9390	9390	18780	18780	9390
19	Kohistan pattan	6428	1928.4	12856	19284	6428	6428	6428	12856	12856	6428
20	Kurram	3078	923.4	6156	9234	3078	3078	3078	6156	6156	3078
21	Lakki Marwat	4628	1388.4	9256	13884	4628	4628	4628	9256	9256	4628
22	Malakand	27428	8228.4	54856	82284	27428	27428	27428	54856	54856	27428
23	Mansehra	3448	1034.4	6896	10344	3448	3448	3448	6896	6896	3448
24	Mardan	51444	15433.2	102888	154332	51444	51444	51444	102888	102888	51444
25	Mohmand	6571	1971.3	13142	19713	6571	6571	6571	13142	13142	6571
26	North Waziristan	714	214.2	1428	2142	714	714	714	1428	1428	714
27	Nowshera	52894	15868.2	105788	158682	52894	52894	52894	105788	105788	52894
28	Orakzai	2142	642.6	4284	6426	2142	2142	2142	4284	4284	2142
29	Peshawar	122585	36775.5	245170	367755	122585	122585	122585	245170	245170	122585
30	Shangla	15202	4560.6	30404	45606	15202	15202	15202	30404	30404	15202
31	South Waziristan	14571	4371.3	29142	43713	14571	14571	14571	29142	29142	14571

3.3-B IMMEDIATE PROVISION OF FOOD FOR FLOOD AFFECTEES:

High Impact Scenario (Financial Plan)						
Cooked Food			Food Package			
S.No	District	Affected Household (HH)	Option 1: Cooked food (Minimum for first week of emergency)	Financing Plan of Option 1 package	Option 2: NDMA Standard non-cooked food package for 15 days, for a time frame of 90 days (For 3 months period)	Financing Plan of Option 2 package
1	Abbottabad	3571	24997	34995800	21426	64278000
2	Bajaur	4286	30002	42002800	25716	77148000
3	Bannu	7768	54376	76126400	46608	139824000
4	Battagram	19895	139265	194971000	119370	358110000
5	Buner	12985	90895	127253000	77910	233730000
6	Charsadda	85577	599039	838654600	513462	1540386000
7	Chitral (lower)	17642	123494	172891600	105852	317556000
8	Chitral (upper)	18357	128499	179898600	110142	330426000
9	D.I Khan	14737	103159	144422600	88422	265266000
10	Dir Lower	4512	31584	44217600	27072	81216000
11	Dir Upper	128067	896469	1255056600	768402	2305206000
12	Hangu	16343	114401	160161400	98058	294174000
13	Haripur	24563	171941	240717400	147378	442134000
14	Karak	14505	101535	142149000	87030	261090000
15	Khyber	3429	24003	33604200	20574	61722000
16	Kohat	4732	33124	46373600	28392	85176000
17	Kohistan (Upper)	19286	135002	189002800	115716	347148000
18	Kohistan lower	9390	65730	92022000	56340	169020000
19	Kohistan pattan	6428	44996	62994400	38568	115704000
20	Kurram	3078	21546	30164400	18468	55404000
21	Lakki Marwat	4628	32396	45354400	27768	83304000
22	Malakand	27428	191996	268794400	164568	493704000
23	Mansehra	3448	24136	33790400	20688	62064000
24	Mardan	51444	360108	504151200	308664	925992000
25	Mohmand	6571	45997	64395800	39426	118278000
26	North Waziristan	714	4998	6997200	4284	12852000

3.4-A MEDIUM IMPACT SCENARIO

The Medium impact scenario has been worked out as a result of extensive consultation with PMD and Irrigation Department. The Medium Impact scenario's flood assumptions approximate the 1929 Flood levels. Medium caseload for relief support is estimated mathematically as 1/3 of the High Impact scenario.

ESTIMATED HUMANITARIAN RESPONSE (RELIEF ITEMS) MEDIUM IMPACT SCENARIO 2019

S.No	District	Affected Household (HH)	Tents	Plastic Sheets	Blankets	Hygiene Kits	Kitchen Set	Water Cooler	Buckets	Tarpaulin	Stoves
1	Abbottabad	1190	357	2380	3570	1190	1190	1190	2380	2380	1190
2	Bajaur	1429	428	2858	4287	1429	1429	1429	2858	2858	1429
3	Bannu	2589	776	5178	7767	2589	2589	2589	5178	5178	2589
4	Battagram	6631	1989	13262	19893	6631	6631	6631	13262	13262	6631
5	Buner	4328	1298	8656	12984	4328	4328	4328	8656	8656	4328
6	Charsadda	28525	8557	57050	85575	28525	28525	28525	57050	57050	28525
7	Chitral (lower)	5880	1764	11760	17640	5880	5880	5880	11760	11760	5880
8	Chitral (upper)	6119	1835	12238	18357	6119	6119	6119	12238	12238	6119
9	D.I Khan	4912	1473	9824	14736	4912	4912	4912	9824	9824	4912
10	Dir Lower	1504	451	3008	4512	1504	1504	1504	3008	3008	1504
11	Dir Upper	42689	12806	85378	128067	42689	42689	42689	85378	85378	42689
12	Hangu	5448	1634	10896	16344	5448	5448	5448	10896	10896	5448
13	Haripur	8187	2456	16374	24561	8187	8187	8187	16374	16374	8187
14	Karak	4835	1450	9670	14505	4835	4835	4835	9670	9670	4835
15	Khyber	1143	342	2286	3429	1143	1143	1143	2286	2286	1143
16	Kohat	1577	473	3154	4731	1577	1577	1577	3154	3154	1577
17	Kohistan (Upper)	6428	1928	12856	19284	6428	6428	6428	12856	12856	6428
18	Kohistan lower	3130	939	6260	9390	3130	3130	3130	6260	6260	3130
19	Kohistan pattan	2142	642	4284	6426	2142	2142	2142	4284	4284	2142
20	Kurram	1026	307	2052	3078	1026	1026	1026	2052	2052	1026
21	Lakki Marwat	1543	462	3086	4629	1543	1543	1543	3086	3086	1543
22	Malakand	9142	2742	18284	27426	9142	9142	9142	18284	18284	9142
23	Mansehra	1150	345	2300	3450	1150	1150	1150	2300	2300	1150
24	Mardan	17148	5144	34296	51444	17148	17148	17148	34296	34296	17148
25	Mohmand	2190	657	4380	6570	2190	2190	2190	4380	4380	2190

26	North Waziristan	238	71	476	714	238	238	238	476	476	238
27	Nowshera	17631	5289	35262	52893	17631	17631	17631	35262	35262	17631
28	Orakzai	714	214	1428	2142	714	714	714	1428	1428	714
29	Peshawar	40861	12258	81722	122583	40861	40861	40861	81722	81722	40861
30	Shangla	5068	1520	10136	15204	5068	5068	5068	10136	10136	5068
31	South Waziristan	4857	1457	9714	14571	4857	4857	4857	9714	9714	4857
32	Swabi	11190	3357	22380	33570	11190	11190	11190	22380	22380	11190
33	Swat	48342	14502	96684	145026	48342	48342	48342	96684	96684	48342
34	Tank	2142	642	4284	6426	2142	2142	2142	4284	4284	2142
35	Torghar	1107	332	2214	3321	1107	1107	1107	2214	2214	1107
Total		303035	90910	606070	909105	303035	303035	303035	606070	606070	303035

3.4-B IMMEDIATE PROVISION OF FOOD FOR FLOOD AFFECTEES:

		Medium Impact Scenario (Financial Plan)					
		Cooked Food				Food Package	
S.No	District	Affected Household (HH)	Option 1: Cooked food (Minimum for first week of emergency)	Financing Plan of Option 1 package	Option 2: NDMA Standard non-cooked food package for 15 days, for a time frame of 90 days (For 3 months period)	Financing Plan of Option 2 package	
1	Abbottabad	1190	8330	11662000	7140	21420000	
2	Bajaur	1429	10003	14004200	8574	25722000	
3	Bannu	2589	18123	25372200	15534	46602000	
4	Battagram	6631	46417	64983800	39786	119358000	
5	Buner	4328	30296	42414400	25968	77904000	
6	Charsadda	28525	199675	279545000	171150	513450000	
7	Chitral (lower)	5880	41160	57624000	35280	105840000	
8	Chitral (upper)	6119	42833	59966200	36714	110142000	
9	D.I Khan	4912	34384	48137600	29472	88416000	
10	Dir Lower	1504	10528	14739200	9024	27072000	
11	Dir Upper	42689	298823	418352200	256134	768402000	
12	Hangu	5448	38136	53390400	32688	98064000	
13	Haripur	8187	57309	80232600	49122	147366000	
14	Karak	4835	33845	47383000	29010	87030000	
15	Khyber	1143	8001	11201400	6858	20574000	

16	Kohat	1577	11039	15454600	9462	28386000
17	Kohistan U	6428	44996	62994400	38568	115704000
18	Kohistan L	3130	21910	30674000	18780	56340000
19	Kohistan P	2142	14994	20991600	12852	38556000
20	Kurram	1026	7182	10054800	6156	18468000
21	Lakki Marwat	1543	10801	15121400	9258	27774000
22	Malakand	9142	63994	89591600	54852	164556000
23	Mansehra	1150	8050	11270000	6900	20700000
24	Mardan	17148	120036	168050400	102888	308664000
25	Mohmand	2190	15330	21462000	13140	39420000
26	North Waziristan	238	1666	2332400	1428	4284000
27	Nowshera	17631	123417	172783800	105786	317358000
28	Orakzai	714	4998	6997200	4284	12852000
29	Peshawar	40861	286027	400437800	245166	735498000
30	Shangla	5068	35476	49666400	30408	91224000
31	South Waziristan	4857	33999	47598600	29142	87426000
32	Swabi	11190	78330	109662000	67140	201420000
33	Swat	48342	338394	473751600	290052	870156000
34	Tank	2142	14994	20991600	12852	38556000
35	Torghar	1107	7749	10848600	6642	19926000
Total		303035	2121245	2969743000	1818210	5454630000
				2969.743 M		5454.63 M

3.5-a LOW IMPACT SCENARIO

Low impact scenario has been worked out as 1/3 of the medium scenario. The caseload is based on the assumption/prediction of the Pakistan Met Department when it predicts the forthcoming monsoon as normal or below. The projected households that may be affected, their food and nonfood items requirement and consequent financial impact has been worked out.

ESTIMATED HUMANITARIAN RESPONSE (RELIEF ITEMS) LOW IMPACT SCENARIO 2019

S.No	District	Affected Household (HH)	Tents	Plastic Sheets	Blankets	Hygiene Kits	Kitchen Set	Water Cooler	Buckets	Tarpaulin	Stoves
1	Abbottabad	397	119	794	1191	397	397	397	794	794	397
2	Bajaur	476	142	952	1428	476	476	476	952	952	476
3	Bannu	363	108	726	1089	363	363	363	726	726	363
4	Battagram	2210	663	4420	6630	2210	2210	2210	4420	4420	2210
5	Buner	1443	432	2886	4329	1443	1443	1443	2886	2886	1443
6	Charsadda	9508	2852	19016	28524	9508	9508	9508	19016	19016	9508
7	Chitral (lower)	1960	588	3920	5880	1960	1960	1960	3920	3920	1960
8	Chitral (upper)	2039	611	4078	6117	2039	2039	2039	4078	4078	2039
9	D. I Khan	1637	491	3274	4911	1637	1637	1637	3274	3274	1637
10	Dir Lower	501	150	1002	1503	501	501	501	1002	1002	501
11	Dir Upper	14229	4268	28458	42687	14229	14229	14229	28458	28458	14229
12	Hangu	1815	544	3630	5445	1815	1815	1815	3630	3630	1815
13	Haripur	2729	818	5458	8187	2729	2729	2729	5458	5458	2729
14	Karak	1612	483	3224	4836	1612	1612	1612	3224	3224	1612
15	Khyber	381	114	762	1143	381	381	381	762	762	381
16	Kohat	525	157	1050	1575	525	525	525	1050	1050	525
17	Kohistan (Upper)	2142	642	4284	6426	2142	2142	2142	4284	4284	2142
18	Kohistan lower	1043	312	2086	3129	1043	1043	1043	2086	2086	1043
19	Kohistan pattan	714	214	1428	2142	714	714	714	1428	1428	714
20	Kurram	342	102	684	1026	342	342	342	684	684	342
21	Lakki Marwat	514	154	1028	1542	514	514	514	1028	1028	514
22	Malakand	3047	914	6094	9141	3047	3047	3047	6094	6094	3047
23	Mansehra	383	114	766	1149	383	383	383	766	766	383
24	Mardan	5716	1714	11432	17148	5716	5716	5716	11432	11432	5716
25	Mohmand	730	219	1460	2190	730	730	730	1460	1460	730
26	North Waziristan	79	23	158	237	79	79	79	158	158	79

27	Nowshera	5877	1763	11754	17631	5877	5877	5877	11754	11754	5877
28	Orakzai	238	71.4	476	714	238	238	238	476	476	238
29	Peshawar	13620	4086	27240	40860	13620	13620	13620	27240	27240	13620
30	Shangla	1689	506	3378	5067	1689	1689	1689	3378	3378	1689
31	South Waziristan	1619	485	3238	4857	1619	1619	1619	3238	3238	1619

3.5-B IMMEDIATE PROVISION OF FOOD FOR FLOOD AFFECTEES:

Low Impact Scenario (Financial Plan)						
Cooked Food			Food Package			
S.No	District	Affected Household (HH)	Option 1: Cooked food	Financing Plan of	Option 2: NDMA Standard non-cooked	Financing Plan of
			(Minimum for first week of emergency)	Option 1 package	food package for 15 days, for a time frame of 90 days (For 3 months period)	
1	Abbottabad	397	2779	3890600	2382	7146000
2	Bajaur	476	3332	4664800	2856	8568000
3	Bannu	363	2541	3557400	2178	6534000
4	Battagram	2210	15470	21658000	13260	39780000
5	Buner	1443	10101	14141400	8658	25974000
6	Charsadda	9508	66556	93178400	57048	171144000
7	Chitral (lower)	1960	13720	19208000	11760	35280000
8	Chitral (upper)	2039	14273	19982200	12234	36702000
9	D.I Khan	1637	11459	16042600	9822	29466000
10	Dir Lower	501	3507	4909800	3006	9018000
11	Dir Upper	14229	99603	139444200	85374	256122000
12	Hangu	1815	12705	17787000	10890	32670000
13	Haripur	2729	19103	26744200	16374	49122000
14	Karak	1612	11284	15797600	9672	29016000
15	Khyber	381	2667	3733800	2286	6858000
16	Kohat	525	3675	5145000	3150	9450000
17	Kohistan (Upper)	2142	14994	20991600	12852	38556000
18	Kohistan (lower)	1043	7301	10221400	6258	18774000
19	Kohistan (pattan)	714	4998	6997200	4284	12852000
20	Kurram	342	2394	3351600	2052	6156000
21	Lakki Marwat	514	3598	5037200	3084	9252000
22	Malakand	3047	21329	29860600	18282	54846000
23	Mansehra	383	2681	3753400	2298	6894000
24	Mardan	5716	40012	56016800	34296	102888000
25	Mohmand	730	5110	7154000	4380	13140000
26	North Waziristan	79	553	774200	474	1422000
27	Nowshera	5877	41139	57594600	35262	105786000

3.6 FUNDS NEEDED FOR IN-CAMP/ EVACUATION CENTERS POPULATION

It is assumed that 2/3 of the affected population will move to host community while 1/3 will be shifted to evacuation centers. It is also added that PDMA will require 5 Million Rupees for awareness raising campaign through print and electronic media. The below assumption is made on the basis that cooked food would be provided for the first week of the flood, while, non-cooked food packages would be provided for 3 months to

Item/Cost	High Impact Scenario (in Millions)	Medium Impact Scenario (in Millions)	Low Impact Scenario (in Millions)
Estimated Affected Population	909,126 HoH	303,035 HoH	100,505 HoH
NFIs	6846.81 million	2615.64 million	938.56 million
FIs	25,273.702 million	8,424.373 million	2,794.039 million
Media Campaign	5 million	5 million	5 million
Total	32,125.512 million	11,045.013 million	3,737.599 million

3.7 RELIEF FUNDS AT THE DISPOSAL OF DDMUS IN KHYBER PAKHTUNKHWA

Relief Funds at the Disposal of DDMUs in Khyber Pakhtunkhwa					
S.No	District Name	Available Balance (Rs. in Million)	S.No	District Name	Available Balance (Rs. in Million)
1	Abbotabad	27.887	18	Kohistan Upper	42.000
2	Bannu	20.034	19	Kohistan Lower	20.000
3	Battagram	15.800	20	Lakki Marwat	15.920
4	Buner	29.948	21	Malakand	20.652
5	Charsadda	30.718	22	Mansehra	19.983
6	Chitral	29.000	23	Mardan	30.000
7	DI Khan	30.850	24	Nowshera	30.581
8	Dir Lower	20.136	25	Peshawar	40.487
9	Dir Upper	37.207	26	Shangla	30.493
10	Hangu	15.696	27	Swabi	30.000
11	Haripur	16.634	28	Swat	30.797
12	Karak	10.000	29	Tank	20.794
13	Kohat	15.400	30	Tor Ghar	10.747
14	Bajaur	10.00	31	Kurram	10.00
15	Mohmand	10.00	32	Orakzai	10.00
16	Khyber	10.00	33	North Waziristan	10.00
17	South Waziristan	10.00			
Total funds available with Districts Million PKR					711.764

3.8 HYDRO INFORMATICS OF KHYBER PAKHTUNKHWA

The level of flood and corresponding caseload is based on the following river water flow assumptions.

(SOURCE: IRRIGATION DEPARTMENT)

S/N	NAME OF RIVER, KHAWARS & NULLAH	LOW	MED	HIGH	V.HIGH	HISTORICAL	DATE
1	Kabul River at WARSAK	30000	50000	100000	200000	157000	Jul-1978
2	Kabul River at NOWSHERA	45000	80000	140000	200000	450000	7/30/2010
3	Indus River at TURBELA (Inflow)	250000	375000	500000	650000	650000	7/30/2010
4	Indus River at TURBELA (outflow)	250000	375000	500000	650000	650000	7/30/2010
5	Indus River at ATTOCK KHAIR ABAD	225000	375000	500000	650000	994600	7/31/2010
6	PANJKORA RIVER (DIR)	10000	20000	35000	50000	130936	7/29/2010
7	Swat River at KHWAZA KHELA	15000	25000	50000	70000	175546	7/29/2010
8	Swat River at CHAKDARA	20000	40000	60000	100000	360000	7/30/2010
9	Swat River at MUNDA H/W	35000	50000	75000	150000	355000	7/29/2010
10	KHIALI RIVER Charsada Road	20000	40000	60000	100000	360000	7/30/2010
11	SHAHALAM River at Takht Abad	3000	6000	10000	15000	20000	7/30/2010
12	ADEZAI River at Adezai Bridge	30000	45000	65000	75000	80000	7/31/2010
13	NAGUMAN River Charsada Road	5726	15500	24000	39500	75575	6/30/2005
14	BUDNI Nullah at Pajagi Road	3500	8000	12000	20000	123000	8/4/2008
15	JINDI River at Charsada	5000	8000	15000	20000	23900	7/29/2010
16	Kalpani Nullah at Mardan City	9000	20000	31710	48285	80315	8/5/2006
17	Kalpani Nullah at Chowki Risalpur	10000	20000	30300	50500	75200	7/29/2010
18	SIRAN River at Daryal	5000	15000	30000	45000	55181	8/1992
19	HARO River at Jabori	5000	8000	25000	40000	82876	8/1992
20	KUNHAR River at Balakot	10000	20000	40000	55000	92000	8/1992
21	GAMBILA River at Gambila Lakki	5000	15000	25000	40000	64024	7/4/2003
22	BARA River at Chamkani	8000	17000	25000	35000	48000	8/12/1970
23	KURRAM River at K. garhi H/W	15000	30000	60000	100000	200000	7/28/2010

24	CHILLA Nullah at Pabbi	2000	7000	19000	25000	28620	8/12/1970
25	CHINKAR Nullah at Pabbi	2000	5000	10000	15000	18400	8/9/1984
26	HAKIM GARHI Nullah at Pabbi	1600	2600	5500	8900	10650	7/8/1983
27	DALLUS Nullah at Warsak Road	3000	7000	10000	18000	19220	7/29/2010
28	SHAHI BALA Khwar	2000	3000	6000	10000	19000	7/30/2010
29	GARANDI Nullah at Urmar	500	1000	3000	6000	7000	7/31/2010
30	NARANJI Nullah at Swabi	3000	8000	15000	25000	45000	7/29/1997
31	BADRI Nullah at Swabi	5000	15000	40000	45000	60000	7/29/1997
32	DOUR River at Rajoya	5000	15000	25000	45000	75970	8/92

رابطوں میں آسانی

ہوگی اب جلد کاروائی

ہنگامی صورت حال میں امدادی کاروائیوں اور معلومات کے لئے
پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی، خیبر پختونخوا کے کنٹرول روم سے

کسی بھی وقت رابطہ کریں



کسی بھی لینڈ لائن یا موبائل فون سے ڈائل کریں

1700

عوام کے تحفظ اور خدمت کیلئے مصروف کار

پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی
حکومت خیبر پختونخوا



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A vibrant blue background featuring a bright sun rising behind a layer of white, fluffy clouds. Numerous rays of light emanate from the sun, creating a dramatic and hopeful atmosphere.

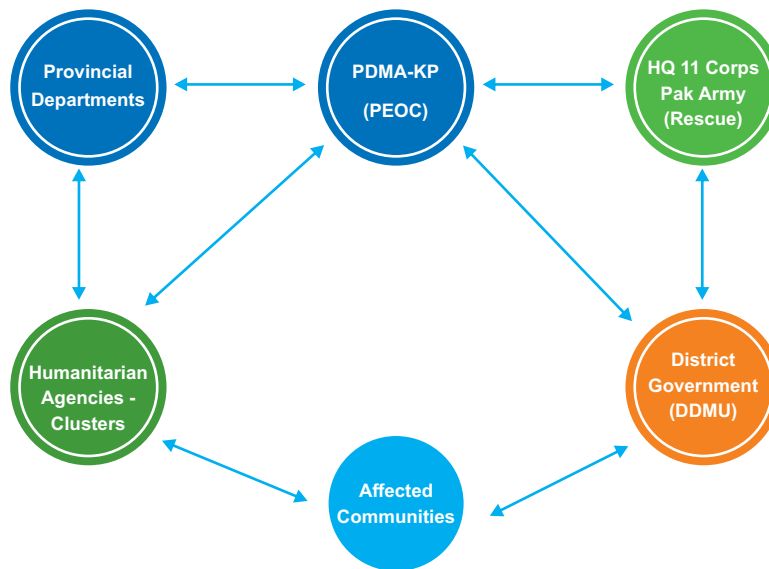
CHAPTER-4

RESPONSE POSITION AND
DISTRICT WISE MONSOON
CONTINGENCY PLANS



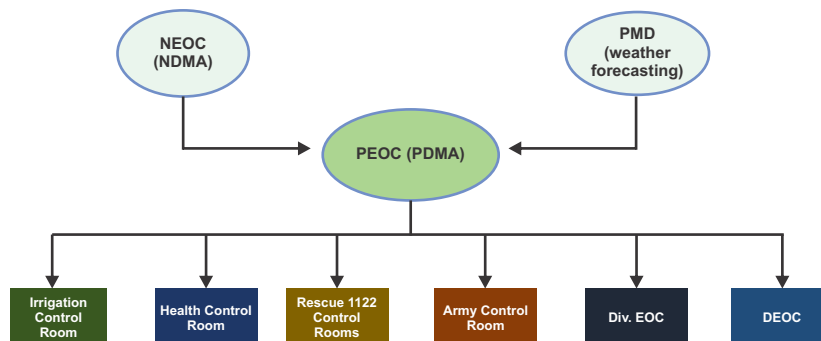
4.1 COORDINATION MECHANISM FOR MONSOON, 2019

PDMA is basically a coordinating body that coordinates efforts of all stakeholders for effective disaster risk management. Its coordination mechanism is very simple and effective for the dissemination of early warning, undertaking search and rescue activities and conducting relief operations to meet the needs of the vulnerable/affected groups. For this purpose, PDMA entails horizontal coordination with the relevant government Provincial line departments on one side and headquarters engineers 11 corps Peshawar on other side. PDMA also coordinates with the humanitarian community for joint efforts in preparedness, rescue & relief response and early recovery. On the other hand vertical coordination occurs with District administrations directly for effective early warnings, rescue and relief efforts at district level. Mutual interaction is also held with the PDMA's of Punjab, Sind, Balochistan, Gilgit Baltistan and Azad Jammu & Kashmir.



COORDINATION FOR MONSOON 2019

MONSOON EMERGENCY OPERATION CENTERS (CONTROL ROOMS)



Linkages Created with SUPARCO, Federal Flood Commission & KP Police



4.2 MONSOON CONSULTATIVE MEETINGS WITH STAKEHOLDERS

In order to enhance preparedness level for coping with flood disaster, PDMA has conducted a series of consultative meetings with all district administrations, provincial line departments and federal agencies i.e. Pakistan Armed Forces, NDMA, Pakistan Meteorological Department, Divisional Commissioners etc. Coordination meetings held with UN Agencies, INGOs, NGOs and relevant stakeholders for the effective disaster risk management in Khyber Pakhtunkhwa province.

Activities Flow Chart - Monsoon Contingency Planning Process									
Activity	Months								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Preliminary Meetings with NDMA, PMD, Provincial Irrigation Department and Pak Army,									
Coordination Meetings with all Provincial Departments, Federal Agencies and Humanitarian Organizations									
Meetings with Districts Administrations/MCP Templates									
Meetings in 07 Divisional Headquarters of the Province									
Army & PID Joint Reconnaissance Survey of the Flood Protection Structures (Peshawar Division, Kohat, Kurram, Bannu, Karak, D.I.Khan, North Waziristan, Lower Dir, Swat)									
Meeting on Monsoon Preparedness with Federal Flood Commission									
Meeting with Army Engineering Corps									
Districts Plans reviewed and analyzed & consolidated as Provincial Plan									
Placement of Draft Plan before PDM Authority									
Meeting/Communicating Plan to NDMA									
(All Pakistan MCPs Consolidation at PM Office, NDMA)									
PMD Weather Forecast/Outlook (Culmination of the Monsoon Preparedness Process)									
Start of Monsoon								15	
End of Monsoon									15



4.3 PROVINCIAL MONSOON CONFERENCE 2019

4.3-a SLOGAN OF THE CONFERENCE: “DISASTER IS EVERYBODY'S BUSINESS”

Mr. Saleem Khan, Chief Secretary Khyber Pakhtunkhwa, chaired the Monsoon Conference to take stock of preparation status of Monsoon Contingency Plan for year 2019 at the Cabinet Room on June 20, 2019. This conference was attended by all stakeholders involved in disaster management in the province. Federal entities like SUPARCO, Pak Met Department, NHA and Pak Army HQ Engineers 11 Corps and humanitarian partners were also invited. All administrative Secretaries of Provincial Departments were present in the conference. The Director General, PDMA delivered a presentation on Monsoon Contingency Plan 2019. After Discussion Session, The Chair made directions to all the concerned stakeholders for prompt and swift response to the impending monsoon hazards.



4.3-B DIRECTIONS OF THE CHIEF SECRETARY

- i. Proactive planning and adaptation of necessary mitigation measures must be carried out by all concerned in advance to significantly reduce losses associated with floods.
- ii. Urgent action be taken against encroachments by all district administrations and Irrigation department to minimize impact of flood damages and rescue efforts
- iii. Chief Secretary emphasized the need for installation of hydro-metrological sensors on rivers/streams, as due to climate change, sudden outburst and erratic weather behavior have been observed in the recent past, which increases the vulnerability of this province due to its geographic terrain.
- iv. Relief & rehabilitation efforts need to be launched simultaneously. For rehabilitation of smaller government infrastructure and service delivery outlets, Districts may undertake such works from their M&R funding.
- v. The Chief Secretary directed the Secretary Irrigation to review and, if required, update the data regarding nullahs and canals so that current position is known to all concerned and reflected in MCP-2019.
- vi. District Administrations must make sure they have data of all private owned assets especially machinery and equipment which could augment the government's efforts in case of floods.
- vii. PDMA, in consultation with, and the approval of, Finance Department must ensure a re-appropriation mechanism for transfer of funds from one District to another on request of concerned Commissioner during flood emergency is set in place so that resources not needed in one District are utilized in the needy one conveniently.
- viii. To ensure ethical disaster reporting PDMA should proactively provide information to media on time.
- ix. RR&S Department may frame SOPs for handling of VIP visits/related matters for placement before the competent authority for a decision.
- x. All Districts to carry out assessment of food items availability in case of flood emergency and presumption of road network being cut off, so that an alternative could be planned.
- xi. C&W Department may separately communicate with HQ Engineers 11 Corps over issue of Bailey Bridges.
- xii. DG PDA to immediately assess BRT especially in view of imminent monsoon season and apprehension of water dumping in its infrastructure.

4.3-C CLOSING REMARKS OF THE CHIEF SECRETARY KHYBER PAKHTUNKHWA

The chair showed his confidence over the preparatory approach adapted by PDMA for the upcoming monsoon season and the contribution to the MCP-2019 made by all Departments, offices and district administrations including federal departments, Police and Pak Army Engineering Corps. This type of proactive planning will surely help all the stakeholders to response to monsoon-based hazards in timely and coordinated manner, and fulfil our professional duty as well as moral obligation, concluded the Chief Secretary Khyber Pakhtunkhwa.



4.4 DISTRICT LEVEL MONSOON CONTINGENCY PLANNING

Contingency planning for any disaster is an integral part of preparedness. PDMA encouraged and fully involved all district administrations to develop Monsoon Contingency plan for the concerned district on the agreed district profile format. All 35 districts have formulated their respective contingency plans for the upcoming Monsoon season. After initial consultative meetings at PDMA with all district administrations, which started in the month of March, 2019, the required format for District MCP 2019 were explained to DDMOs. A series of meetings in all districts of the province were conducted by District Administrations, wherein all line agencies at district and other stakeholders were engaged in provision of relevant information on the prescribed templates. The data gathered was compiled to formulate district plans. Another series of meetings were conducted at divisional level and respective district plans were presented in the month of April. The same were fine-tuned during the month of May and submitted to PDMA DRM Section. (The District Monsoon Contingency Plans for 35 districts of the province are available in separate volume)

4.4-a SALIENT FEATURES OF DISTRICT MONSOON CONTINGENCY PLANS:

District contingency plans includes:

1. General profile of the district
 - a. Area, geography and demography of the district
 - b. Rivers and Streams
 - c. Climate (Temp & Precipitation)
2. Hazard Assessment of the District
 - a. Seasonal Calendar
 - b. Hazard Time line
 - c. Union Council Wise Hazard Ranking
 - d. Hazard & Risk Mapping
3. Vulnerability Assessment
 - a. Identification of Vulnerable UCs/VCs/NCs
 - b. Identification of Elements at Risk
4. Capacity Assessment
 - a. HR Mobilization Plan of District Line Departments
 - b. Stock & Machinery Available and Need & Gap Analysis
5. Early Warning System
 - a. Activation of DEOC and Duty Roasters of staff
 - b. Contacts of Focal Persons
6. Evacuation Plan
 - a. Hazard Specific Evacuation Plan
 - b. Search & Rescue Plan
 - c. Alternate Rout Maps
 - d. Identification of camps
 - e. Arrangements of Medical Teams, Medical Treatment and Blood
7. District Emergency Response
 - a. District Line Agencies/Department Proformas
(Sectoral Response Planning templates)
8. Roles & Responsibilities
9. Challenges

4.5 LOGISTIC ARRANGEMENTS/ PROCUREMENT OF NFIs

Sufficient stocks of food and non-food items improve the level of preparedness. Keeping in view the appropriate impact scenario, PDMA has already transferred enough funds to all district administrations across the province under relief head with directions to procure food items from nearby utility stores or state-

owned organization in case of emergency.

4.6 PROVISION OF BOATS AND RESCUE EQUIPMENT TO PAK-ARMY

Strengthening of sister organization is essential part of preparedness and subsequent effective response to any disaster. In this regard 6 fiber glass Boats and 50 Out Boat Motors along with other essential rescue equipment have been provided to Pak-Army in this year for the upcoming Monsoon season.

4.7 PROVISION OF RESCUE EQUIPMENT TO RESCUE 1122

Rescue 1122 is the rapid response force in emergency situation, in order to boost the existing capacity of Rescue 1122, PDMA has provided De-Watering Pumps, Out Boat Motors and other necessary equipment to augment its capacity.

4.8 PROVISION OF RESCUE EQUIPMENT TO 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 via providing necessary rescue equipment as per given details.

S #	DISTRICT	PICK AXES	SHAWELS	GLOVES (LEATHER)	FIRE BUCKETS	HELMET	ELECTRIC SEARCH LIGHT	MANILA ROPE	RUBBER TUBE	LIFE JACKETS
1	Charsadda	42	42	85	42	85	42	17	42	34
2	Nowshera	42	42	85	42	85	42	17	42	34
3	Swat	42	42	85	42	85	42	17	42	34
4	D.I Khan	42	42	85	42	85	42	17	42	34
5	Dir Upper	42	42	85	42	85	42	17	42	34
6	Dir Lower	42	42	85	42	85	42	17	42	34
7	Bannu	42	42	85	42	85	42	17	42	34
8	Kohat	42	42	85	42	85	42	17	42	34
9	Chitral	42	42	85	42	85	42	17	42	34
10	Malakand	42	42	85	42	85	42	17	42	34
11	Abbottabad	42	42	85	42	85	42	17	42	34
12	Mardan	42	42	85	42	85	42	17	42	34
13	Hangu	42	42	85	42	85	42	17	42	34
14	Peshawar	42	42	85	42	85	42	17	42	34
15	Mansehra	42	42	85	42	85	42	17	42	34
Total		630	630	1275	630	1275	630	255	630	510

4.9 RESCUE ITEMS' STOCK HELD BY THE DISTRICTS

S.No	Districts	Dozers	Tractors	Dumpers/loaders	OBM	Ambulances	Life Jackets	Generators	Search Lights	Sand Bags	De-Watering Pumps	Life Rings	Walkie Talkie	Boiler	Excavators	Road roller	Ropes	Rubber tubes	Fire Brigade	Trolleys
1	Peshawar	0	11	7	18	0	250	1	0		17	0	0		7	2	0	0	3	4
2	Mardan		18		5			7	7		38									
3	Nowshera				4	5	12	4	5		2		10							
4	Abbottabad	2	18	6	4			2											3	12
5	D.I khan	7	34					5			22				9				4	16
6	Swat	5	3	8/4	8	4								1	4	4			7	7
7	Haripur	3	11					2			1			3						11
8	Charsadda		16				63			150	28	2								
9	Kohat	3	35	0/6	22		210	8		9				4						6
10	Chitral (Upper)	12	10		1	2	6		6			2	2		20					
11	Chitral (Lower)	7	9		1	1	3		2			1			9					3
12	Dir Lower		4	1			6	5	4						1					
13	Dir Upper	2	3	3										1						1
14	Buner	2	9	1/20				5							22			6	14	
15	Torghar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Mansehra	2	7																	2
17	Shangla																			
18	Bannu	1	9	2		19	50	5			4				2			2	7	
19	Hangu		4		3	3	30	1			1									
20	Tank																			
21	Karak		2	2				1							2					
22	Kohistan (Upper)																			
23	Kohistan(Lower)																			
24	Kohistan (Pattan)																			
25	Malakand																			
26	Battagram		3																3	
27	Swabi		10								7									10
28	Lakki Marwat		6		3	3	100													

All the district administrations have been strictly directed to map all those heavy earthmoving machinery and equipment in private custody, available in the districts concerned. Name of the Owner, Location and contact numbers need to be collected/enlisted so that in case of emergency and need, the machinery be made available for use.

4.10 RESCUE ITEMS' NEEDS & GAPS OF DISTRICTS

S.No	District Name	Dozers	Tractors	Dumpers/loaders	OBM	Ambulances	Life Jackets	Generators	Search Lights	Sand Bags	De-Watering Pumps	Life Rings	Walkie Talkie	Boiler	Excavators	Road roller	Ropes	Rubber tubes	Fire Brigade	Trolleys
1	Peshawar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Mardan																			
3	Nowshera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Abbottabad	3	3	4															1	3
5	D.I.khan	13	16	-	-	300	95	-	-	78	-	-	-	11	-	-	-	-	6	34
6	Swat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Haripur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Charsadda	1	6	3/1	-	-	-	-	-	6	-	-	-	4	-	-	-	-	2	-
9	Kohat	-	-	-	-	-	12	-	-	15	-	-	-	-	-	-	-	-	-	-
10	Chitral (Upper)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Chitral (Lower)																			
12	Dir Lower	1	4	8		50	5	50	4					3					3	4
13	Dir Upper																			
14	Torghar																			
15	Mansehra	1												4						
16	Shangla																			
17	Bannu	3	8	3/5	10	10	10	10	10		10			2					4	5
18	Hangu		20				4	4	4	4	4			4					5	20
19	Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Karak	5	10	10/0				10			10			3						10
21	Buner	2	2	6		500	15	15	300	15	15		15	1					5	2
22	Kohistan (Upper)	4	4	4			10	10		4	4								-	4
23	Kohistan (Lower)	3	3	3	-	-	10	50	-	5	-	-	-	3	-	-	-	-	3	3
24	Kohistan (Kolai Palas)	1	1	2			6	21	1	1	1			1					2	1
25	Malakand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Battagram	5		1/1																
27	Swabi	1	1				5							1						
28	Lakki Marwat		3	4			12		11											5

The rescue equipment and heavy machinery stock position of the District shows an undesired picture. The Districts concerned are advised to strengthen the relevant stakeholders, district line departments through budgetary allocations from the concerned provincial department.

4.11 SUMMARY OF NFI's STOCK POSITION HELD BY DISTRICTS

[illegible]

4.12 SUMMARY OF NFI's NEEDS & GAPS IDENTIFIED BY DISTRICTS

S/N	Name of District	Tents/ Quilts	Blankets	Mattresses/Sleepin g bags	Plastic Sheets/ Tarpaulin	Jerry cans/ Coolers	Buckets	Kitchen sets	stoves/ wooden burning stoves	Cylinders	Hygiene kits	Net mosquitoes	Life jackets	Dewatering pumps	Generators	Sand bags	Water Tanks
1	Kohat																
2	Dir Lower	2000/0	2000	1000/0	100	2000	2000	2000	2000	2000	2000	1000	50				100
3	Charsada	5000		5000	500/2000	5000	5000	5000	5000	5000	5000	10000	200	49			300
4	Torghar	360/0		200/0	0/200						100	100	1450				100
5	Shangla	3000/0	3000		1000/1000	500	1000	1000	500	500	3000	3000	50				100
6	Swabi	200/200	200	200	0/500	200/0	200	200	200	200	200	500	200	200			200
7	Swat																
8	Dir Upper	250/400	300	50	50/100	300/0	300	100	50	50	200	30	25				10
9	Hangu	1000/0		1000/0	1000/500	400	400	500	400	400	500	1000	50	4	4		200
10	Bannu	500/500	500	500	150/200	200		500		100	1000	1000	50				200
11	Chitral U	270/0		200				100				500					
12	Chitral L	270/0		200				100				500					
13	Mardan		500	500	500/500	500/500	500	500	500	500		500	500	33			200
14	Battagram	200/0	500	200	500/1000	200/0	200	200	200	200	200	500					50
15	Buner	200/200	400	100	200/100	150	150	400	100	100	50	300	50				20
16	Tank	1000	1000	1000	100/1000	5000/0	1000	5000	1000	1000	5000	750	100				
17	Lakki Marwat																
18	D.I Khan	1000	3000	1000	5000/1000	1000	1000	1000	500	500	1000	5000	300	20	10		500
19	Haripur																
20	Mansehra	500		200	5000/100	100	300	100	100	100	200	200	50	6	30		50
21	Karak	100/200	200	100	250/100	100	200	100	100		500	500	500				100
22	Kohistan U	200/0	300	200/0	100/200	200	200	100	150	150	200	200	150				50
23	Malakand	300/200	400	300/0	200/100	150	150	400	100	100	50	300	50				20
24	Abbottabad	300/300		300				200	50								200
25	Peshawar	1000	500	5000	5000/5000	5000	5000	5000	5000		1000	5000		50	10		
26	Nowshera				50		140	196			200	10	4				
27	Kohistan L	500/1000	1000	1000	500	1000	500	1000	1000	1000	2000	1000			5		
28	Kohistan (Pattan)	500/1000	1000	1000		1000		1000		1000	2000				5		
29	Bajaur																
30	Mohmand																
31	Khyber																



Provincial Disaster Management Authority
Khyber Pakhtunkhwa

موسم برسات میں بہت احتیاط کی ضرورت ہے



بہترین تیاری حادثات سے دوری۔

Preparedness Mitigates Disasters

Monsoon Season Calls For Great Care

ممکنہ بارشوں اور سیلاب میں ہنگامی صورتحال سے نمٹنے اور

امدادی سرگرمیوں میں آپ کے ساتھ ساتھ

پی ڈی ایم اے، خیبر پختونخوا کے کنٹرول روم سے 1700 یا 091-9213867 پر کسی بھی وقت رابطہ کریں۔

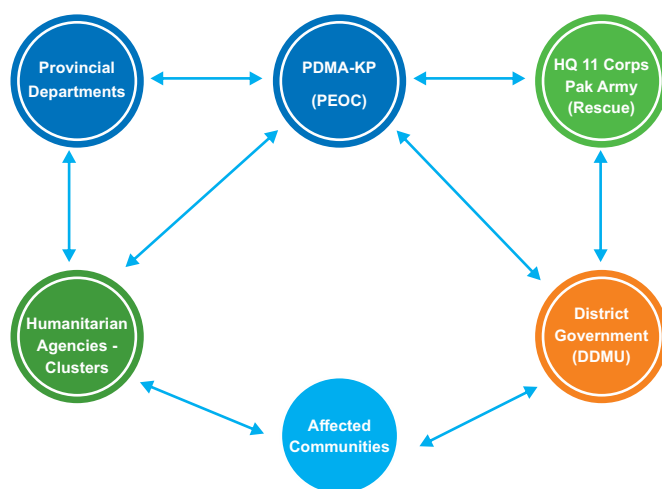
A vibrant blue background featuring a sunburst of light rays emanating from behind a layer of white, fluffy clouds. The rays transition from a bright yellow at the source to a deep blue at the top of the frame.

CHAPTER-5

COORDINATION MECHANISM,
PREPAREDNESS AND
RESPONSE PLANNING

PDMA has devised well-articulated and fully coordinated strategies for ensuring effective response to hazards, associated with Monsoon season i.e. Flash floods, riverine floods, landslides, avalanches and GLOFs. Provincial Emergency Operation Centre (PEOC) has been established and made functional 24/7 headed by Director General PDMA. All the district administrations have established District Emergency Operation Centers (DEOCs) headed by District Disaster Management Officers of the districts concerned. Specific proformas have been shared with DDMOs for unanimity and ease in reporting. PDMA will receive reports and will inform the high-ups on one side and will ask the concerned stakeholder for immediate response to the issue on the other. DDMOs have been asked to share any incident at first hand with PDMA for immediate response and reporting the matter to the provincial government at the earliest.

Besides reporting mechanism and coordination of DEOCs with PEOC, PDMA has strategized the response to any disaster during monsoon season by assigning specific roles and responsibilities to various stakeholders. Under the revamping project of PEOC, the PDMA has also strengthened the divisional offices by appointing reporting officers to improve the monitoring system at divisional level.



5.1 PROVINCIAL DISASTER MANAGEMENT AUTHORITY-PDMA

PDMA has undertaken a series of flood preparedness meetings with districts and provincial departments, Federal line departments and humanitarian community. This contingency plan is the outcome of the consultations with all relevant stakeholders. Role of PDMA in case of a disaster is comprised of following responsibilities.

5.2 COMMAND AND CONTROL:

DG PDMA in consultation with Secretary, RR&S Department and Chief Secretary will be responsible for Flood Response & Relief Operations. Director Relief PDMA on his behalf will head a Composite Team (comprising representatives of Lead Agency/Department and focal persons of support organizations) to coordinate response & relief operations. All relevant departments/Agencies will provide focal person / representative to form part of the provincial response team when requested.

5.3 PROVINCIAL EMERGENCY OPERATION CENTRE (PEOC)

A state-of-the-art Provincial Emergency Operation Center (PEOC) has been established, initially with the help of UNDP, and recently it has been upgraded through a provincial government funded project. HR has been made available, now the control room is operational on 24 by 7 basis round the year. It is linked with all the

stakeholders at federal level (NDMA, Pak Army, FFC, Damming Authorities, PTCL, WAPDA, NHA, Pak Railway), provincial level (Police, Rescue 1122, Irrigation Flood Control Room, Health Emergency Center, Information Dept, Home Dept, Livestock, EPA Cell, Forest Department and all other provincial agencies) and all 35 district administrations for swift emergency response. It is central command and control setup for the provincial government and a nodal point for centralized one-point coordination. It provides linkages with all technical stakeholders like SUPARCO and GIS Provincial Hub. It is also linked with provincial data center for interrupted internet backup to run the MIS systems. This provides leverage to PDMA to act as a nodal agency for swift response to disaster events. PEOC has been upgraded and has the capacity to become an integrated control rooms where focal persons from all line agencies can be brought together for a centralized coordination with all stakeholders. It has a robust mechanism for communication and correspondence on standardized templates with relevant stakeholders on specified timescales before, during and post disaster emergency management.



OVERALL ROLE OF PEOC

The PEOC is the focal point of the Government's coordination of response and Recovery activities during and after disasters and emergencies.

ACTIVATION

The level for activating the PEOC will depend on the nature and scope of the threat of disaster to a part of the Province, District(s), Tehsil or Union Council(s) etc.

PEOC ACTIVATION LEVELS

The levels/Stages are denoted by the following color codes in correspondence and electronic/social media.

Red	Full Scale Activation
Orange	Partial Activation
Green	Normal

As a matter of routine the PEOC will always be at Level/Stage Green; Normal

5.3.1 PEOC ACTIVATION PROCEDURES

In case of a Partial or Full activation, the following process/procedure would be followed

- In charge PEOC would inform the Director Relief, DG PDMA and (Director HR/Admin)
- Staff of PEOC mobilized
- Depending upon the nature and extent of the disaster, extra PDMA staff mobilized/put on alert/standby
- Relevant Districts/Departments/Actors informed, Focal points notified
- Media Team/Spokespersons activated and notified
- If required Govt. higher authorities informed

- vii. Warehouse mobilized
- viii. AD warehouse, supporting staff, drivers and other staff

5.3.2 OPERATIONS

The operations would be undertaken by the PEOC/PDMA team, headed by the DG PDMA/DG 1122, Director Relief & Rehabilitations and Deputy Director Relief along with all concerned officers under the overall supervision of secretary relief.

5.3.3 RESPONSE

This would entail:

- i. Search and Rescue/Evacuation
- ii. Military Support (As per prescribed procedure of Government)
- iii. Communications (With all concerned)
- iv. Mass Care
- v. Firefighting
- vi. Health and Medical
- vii. Law Enforcement

5.3.4 MESSAGE TRACKING

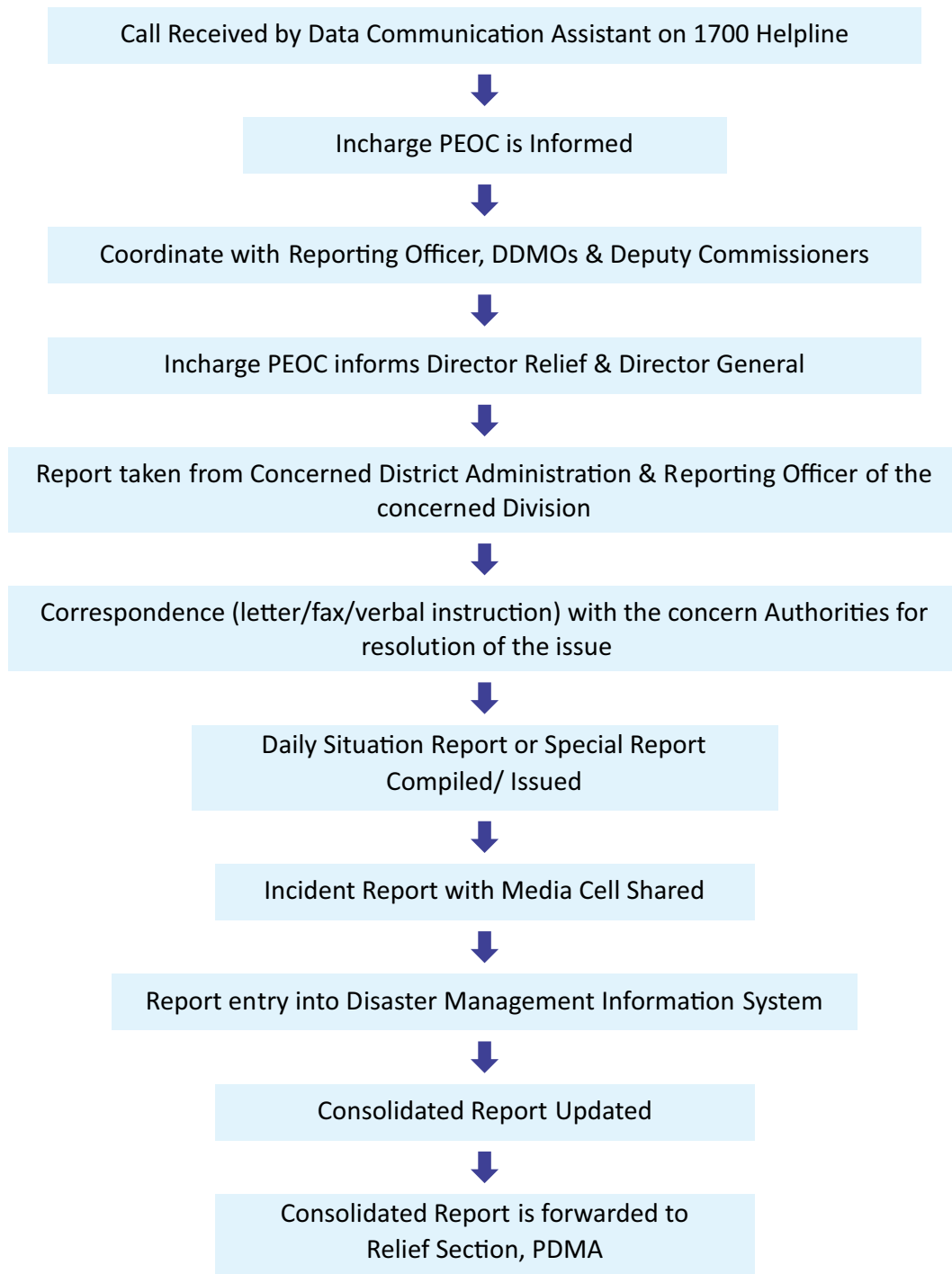
- i. Incoming messages to the PEOC will be captured in writing (forms)
- ii. Upon completion, these form(s) will be forwarded to all concerned for appropriate action and dissemination
- iii. Incoming messages will be saved in the appropriate disaster operations file
- iv. All sensitive outgoing messages will be reviewed and approved by DG before being sent out by the Technical Manager
- v. After outgoing messages have been sent, they will be saved in the appropriate disaster
- vi. Operations file

5.3.5 REQUESTS FOR SUPPORT

The PEOC will be responsible for requesting assistance from departments / organizations to address equipment and personnel resource needs during a disaster.

Requests for assistance will be recorded (Forms). The original message requesting assistance will be placed in the appropriate disaster operations file. Requests will be tracked and followed up until completion and then filed.

DATA FLOW DIAGRAM OF PEOC DURING DISASTER



5.3.6 INFORMATION DISSEMINATION

A daily briefing will be held to update agencies / organizations on the status of emergency operations. Additional daily briefings will be scheduled as necessary.

A daily Situation Report will be prepared and shared with the relevant/concerned authorities. Additional Situation Reports will be provided and disseminated as warranted.

Information will be disseminated to the public/media etc. through the PDMA Media team.

5.3.7 CLOSING OF OPERATIONS

When an emergency/operation is over/finished the Technical Manager PEOC will declare so, in writing and ensure this information is passed onto all the relevant/concerned actors.

A closure notification will be issued.

The operation and procedures will be assessed for improvement.

5.4 EARLY WARNING

For timely evacuation and effective response at all levels, early warning is the key component of preparedness. No one else, except local Deputy Commissioner shall issue early warning if the situation demands. For issuance of timely warning and evacuation advisory a joint cell of Provincial Irrigation Department, Meteorological Department and PDMA has been established. PEOC after consultation with all relevant parties will only issue early warning and evacuation advisory if required in coordination with Deputy Commissioner(s) of the district(s) concerned. Additionally, DCs have also been tasked to put in place a network of community level organizations and community volunteers in the catchment areas, especially for mountainous districts, to receive real time information on water levels.

5.4.1 DISSEMINATION

- i. To District Administration including merged districts
- ii. Through social, print and electronic media
- iii. Through District Police
- iv. Through Revenue Field formations and Mosque Loudspeakers

5.4.2 COMMUNICATION

Stakeholders

- i. Twice a day situational Updates with all
- ii. Updates after every 6 hrs in intense emergency situation
- iii. Update after every 02 hrs in very intense emergency situation

5.4.3 MEDIA

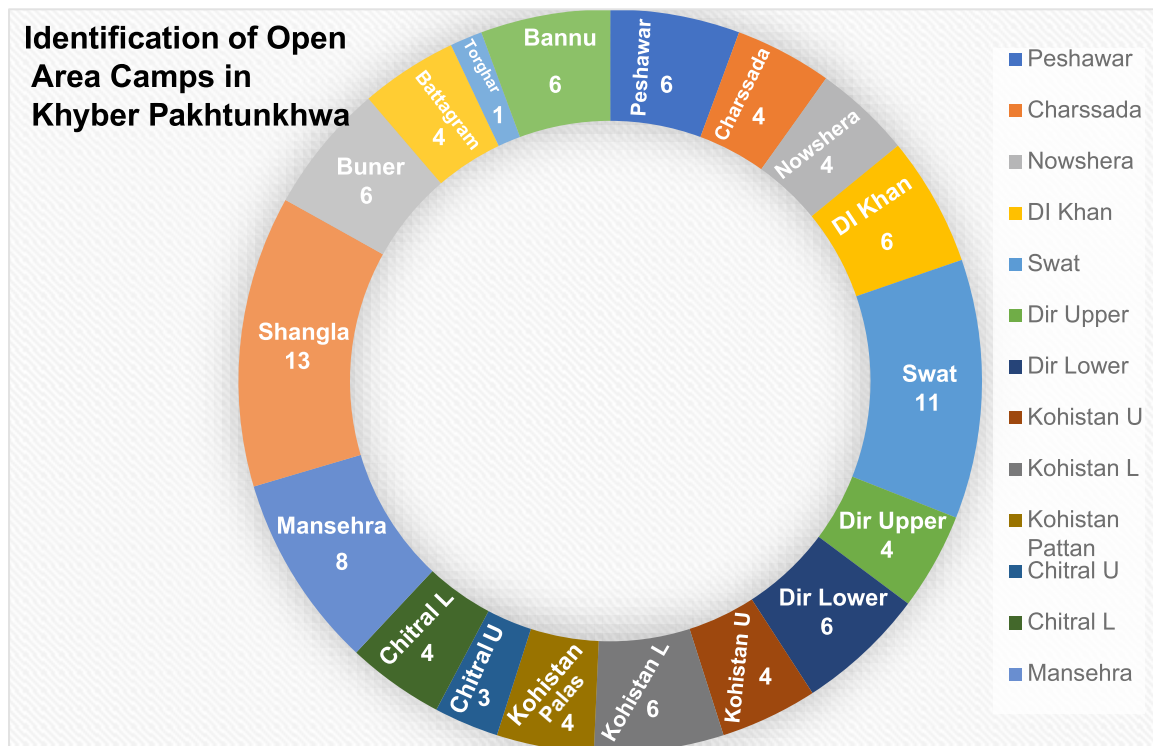
- i. Press Brief twice a day
- ii. Press Briefing after every 6 hrs in intense emergency situation

5.4.4 DEPLOYMENT OF DISASTER RESPONSE FORCE

- i. Rescue 1122 and CD Volunteers
- ii. Engineering Corps and Army Jawans
- iii. Deployment Plan for Police
- iv. (For Evacuation, Relief Distribution, Camps Security, Traffic Mgt, Protocol Duties for VIP Visits)

5.4.5 SHELTER

- Schools in safer places to be used for relief camps
- (Identified in District Monsoon Contingency Plans along with Wash Facilities and capacity to house affected families)
- In case of mega disasters Colleges and University Building to be used as camps as well Schools in safer places to be used for relief camps
- Identification of Health Response Bases in safer areas BHUs/RHCs / DHQs and Private Hospitals
- Identified sites for Camp Establishment
- (Identified in 17 vulnerable districts- As per UN standard guidelines by PDMA Camp Management Support Unit)



MINIMUM RELIEF ITEMS DISTRIBUTION

(To All District Administrations before onset of Monsoon)

- MOU with Utility Store Corporation in place for Standardized Food Package
- Framework Agreement for Supply of Services (transportation) and Supply of NFIs

5.5 FINANCIAL RESOURCES PLACED AT THE DISPOSAL OF DISTRICT DISASTER MANAGEMENT UNITS

PDMA has placed requisite funds at the disposal of all DCs. They have also been directed to utilize the funds to make up for any deficiency in preparedness measures for 2019 monsoon season.

Relief Funds at the Disposal of DDMUs in Khyber Pakhtunkhwa					
S #	District Name	Available Balance (Rs. in Million)	S #	District Name	Available Balance (Rs. in Million)
1	Abbotabad	27.887	18	Kohistan Upper	42.000
2	Bannu	20.034	19	Kohistan Lower	20.000
3	Battagram	15.800	20	Lakki Marwat	15.920
4	Buner	29.948	21	Malakand	20.652
5	Charsadda	30.718	22	Mansehra	19.983
6	Chitral	29.000	23	Mardan	30.000
7	DI Khan	30.850	24	Nowshera	30.581
8	Dir Lower	20.136	25	Peshawar	40.487
9	Dir Upper	37.207	26	Shangla	30.493
10	Hangu	15.696	27	Swabi	30.000
11	Haripur	16.634	28	Swat	30.797
12	Karak	10.000	29	Tank	20.794
13	Kohat	15.400	30	Tor Ghar	10.747
14	Bajaur	10.00	31	Kurram	10.00
15	Mohmand	10.00	32	Orakzai	10.00
16	Khyber	10.00	33	North Waziristan	10.00
17	South Waziristan	10.00			
Total funds available with Districts			711.764 Million PKR		

5.6 COORDINATING ASSISTANCE OF UN-AGENCIES AND HUMANITARIAN PARTNERS:

PDMA also coordinates with all UN Agencies and other humanitarian partners to fill in the response and relief gaps before, during and after floods. Furthermore, PDMA will coordinate with all UN agencies and humanitarian partners to maintain a stock of at least 1/3 of required humanitarian needs in the high impact scenario (Food and NFI including shelter) for the 2019 monsoon season.

5.7 PARTNERS- HUMANITARIAN ORGANIZATIONS:

Formulation of Flood contingency and Response plans consistent with Provincial and National Policies.

Consolidates the cluster flood contingency and response plans with PDMA.

Arranging joint assessment and monitoring based on the model agreed at the Federal level between NDMA and OCHA.

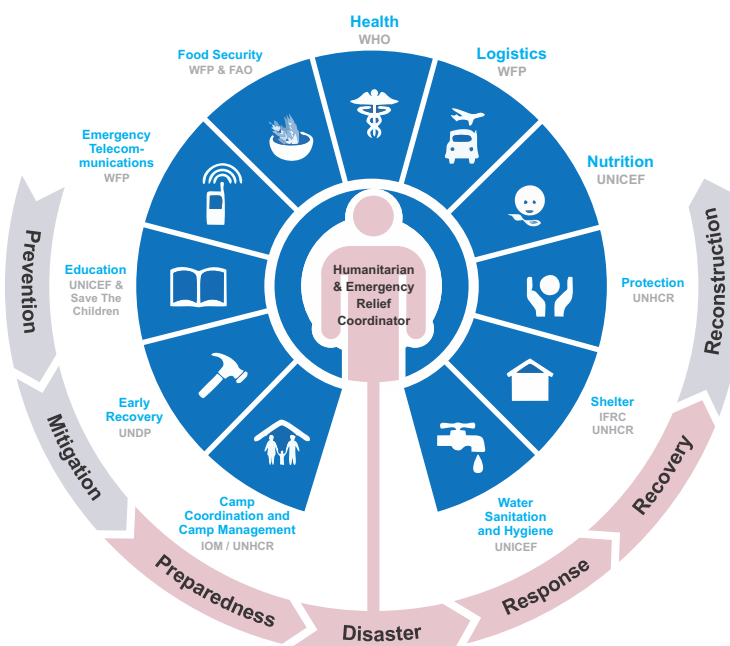
Coordinate the deployment of humanitarian assistance and flood response.
The immediate relief needs of the affected communities' food & water and health etc.

Follow up relief measures e.g. repair of houses, repair/ replacement of health infrastructure, community infrastructure, replanting of rabbi crops.

Identification of the weaker and vulnerable groups in society.

Reporting progress on a regular basis using the four w's monitoring tool.

UN Cluster System



Detail of NFIs provided to Districts during June, 2019 (Stock Replenishments)

S #	Districts	Tents	Plastic mates	Quilt	Kitchen sets	Mosquito nets	Gas cylinders	Jerry cane	Bucket	Water cooler
1	BAJAUR	130	125	60	35	35	35	35	35	35
2	DIR LOWER	65	35	35	35	35	35	35	35	35
3	SWAT	60	70	100	35	35	35	35	35	35
4	MALAKAND	50	70	100	35	35	35	35	35	35
5	SHANGLA	50	50	50	50	50	50	50	50	50
6	DIR UPPER	60	50	50	35	35	35	35	35	35
7	ABBOTTABAD	70	50	50	35	30	35	35	35	35
8	HARIPUR	50	50	50	35	35	35	35	35	35
9	MOHMAND	55	40	30	35	30	35	35	35	35
10	KURRAM	60	50	50	35	30	35	35	35	35
11	DI KHAN	40	100	0	0	0	0	40	40	40
12	SOUTH WAZIRISTAN	60	60	40	30	30	30	30	30	30
13	LAKKI MARWAT	50	80	100	30	30	30	30	30	30
14	KOHISTAN U	55	80	0	30	40	20	40	40	40
15	KOHISTAN L	60	50	50	30	40	20	40	40	40
16	BATTAGRAM	60	80	60	30	40	20	30	35	35
17	KHYBER AGENCY	60	60	60	35	40	20	35	35	16
18	CHITRAL	60	80	0	35	40	30	60	35	10
19	NWA	60	60	60	35	40	20	40	35	0
20	KARAK	60	100	0	40	40	48	200	70	0
21	ORAKZAI	30	100	80	35	40	30	40	40	0
Total		1245	1440	1025	695	730	633	950	795	606

5.8 LIST OF NFI STOCK AVAILABLE WITH PDMA

NFIs Stock in Humanitarian Response Facility (HRF) at Jalozi					
S #	Items	Quantity	S #	Items	Quantity
1	Tents	4515	37	Plates plastic	630
2	Blankets	35	38	Plastic sheets	215
3	Plastic mats	2763	39	Plastic tea cups	215
4	Quilts	17753	40	Plastic lota	2550
5	Mosquito nets	5091	41	Walking stick	36
6	Tarpaulin	30	42	Soap cloth laundry	04 CTN
7	Kitchen sets	2657	43	Cane milk	47
8	Cotton metris	499	44	Fire buckets (red)	13
9	Gas cylinder	3308	45	Fax machine	24
10	Water cooler	NIL	46	Glass steel	1236
11	Jerry can	7150	47	Glass plastic	1848
12	Life jackets	379	48	Guns	2
13	Plastic buckets	4205	49	Hand fan	05 Bags
14	Fire blankets	160	50	Jersey	100
15	Saw cutter	32	51	Kit box	24
16	Sleeping bags	102	52	Plastic lota	2550
17	Stoves	437	53	Pillows	1040
18	Folding bed	236	54	Saranda indonesian cloth	128
19	Bed sheet	1206 pcs	55	Service wire	01 Bundle
20	Gift packs	4968	56	Surgical cotton roll	108 Rolls
21	Crockery tea cups + glasses	36 CTN	57	Stand/sign board	9
22	Ceiling fan	422	58	Steel mug	348
23	Generator	102	59	Security guard used shelter	2
24	Prayer mat	381	60	Silver tub	49
25	Room air cooler	34	61	Scanner	13
26	Shovel wooden	685	62	Towel	14
27	Pedestal fan	205	63	Toilet seat cover	20
28	Food mat	255	64	Water pump	16
29	Water bags	1700	65	Walking stick	36
30	Water purification unit	1	66	Water filter	14
31	Glass steel	1236			
32	Glass plastic	1848			
33	Plastic chabri	1140			
34	Plastic dolcha	852			
35	Plastic dongi	3672			
36	Plates steel	540			

5.9 OVERVIEW OF NFI's STOCK POSITION AND GAP ANALYSIS

S #	Item	PDMA Stock	Pakistan Red Crescent Society (PRCS) Stock	Districts Stock	Total Stock
1	Tents	5800	2965	6511	15276
2	Plastic Sheet/ Tarpaulin	1578	13751	14210	28011
3	Quilts/Blankets	20973	24778	7135	52886
4	Water Cooler	810	3642	804	5542
5	Buckets	5000	346	500	5846
6	Kitchen Sets	5002		435	5437
7	Gas Stoves	437	1547	433	2417
8	hygiene Kits	24	4111	200	3003
9	Mosquito Nets	6121	3907	2241	12269
Total		44911	55047	32469	130687

A stylized illustration of a sunburst with rays of light in shades of blue and green, emerging from behind a layer of white and light blue clouds. The background is a gradient of blue, darker at the bottom.

CHAPTER-6

PROVINCIAL SECTORAL MONSOON CONTINGENCY PLANNING



6.1 PROVINCIAL STAKEHOLDERS

List of Provincial Stakeholders		
S#	Department / Organization	
1	Irrigation Department	Sectoral Plans Submitted and Contact Directories/Focal Persons nominated
2	C&W Department and Khyber Pakhtunkhwa Highways Authority	
3	Elementary & Secondary Education Department	
4	Health Department	
5	Forest and Environment Department	
6	Agriculture and Livestock Department	
7	Police Department	
8	Local Government	
9	Public Health Engineering	
10	Social Welfare	
11	Food Department	
12	Rescue 1122 & Civil Defense	

6.2 FEDERAL STAKEHOLDERS

List of Stakeholders		
S#	Department / Organization/Firms/Agencies	Taken on Board and Focal Persons Nominated and Specific Instructions Issued
1	NDMA	Yes
2	SUPARCO	Yes
3	Pak Met Dept	Yes
4	Pak Railway	No
5	Federal Flood Commission	Yes
6	Damming Authorities	Yes
7	Utility Store corporation of Pakistan	MoU in place and regular contact for provision of food items on standardized package of NDMA
8	Pak Army Engineering 11 Corps	Focal Persons nominated, regular coordination between control rooms
9	National Highways Authority	Plan not submitted, Focal persons identified, regular coordination for clearance of vulnerable hot spots on National Highways
10	WAPDA	Early Restoration of Critical Facilities
11	PTCL	Early Restoration of Critical Facilities

6.3 SALIENT FEATURES OF DEPARTMENTAL PLANS

As disaster is everybody's business, therefore an integrated response to monsoon impending disasters is required at provincial level. In order to make the plans more robust, PDMA has established templates for line agencies and provincial departments which are completely based on their specific role in emergency situation and their particular domain.

Following are the salient features of their respective plans

- Contact of Focal Persons
- Resource Mapping of Departments
- Sectoral Vulnerable Points Identification

Sector Specific Monsoon Response Plan (based on separate templates for each department)

6.4 HEALTH DEPARTMENT:

Details of District Health Facilities to be Used as Health Response Bases After Floods										
District Name	No. of Hospitals			No. of Doctors	No. of Supporting Staff		No. of Beds	No. of Ambulances Available		Diagnostic & Supporting Staff Available
	DHQ's	BHU's	RHC		No. of Nurses	No. of Paramedics		Public Ambulances	Private Ambulances	
Abbotabad	1	2	1	260	495	549	1236	13		
Bannu	5	2		132	111	737	505	8		
Battagram	1	4					229	6		
Charsadda	1	5		299	230		542	19		
Chitral	1	6	3	58	65	133	310			
DI khan	4		2				160	4		
Dir Lower	4	3	2				717	15		
Haripur	11	8		68		92		30		44
Karak	3						360	5	5	
Kohat	5	4					380	12	12	
Kohistan Lower		7					18	4		
Kohistan Upper		2						1	5	
Mansehra	10	13					200	17		
Malakand	1	5	1	156						
Mardan	7	5	2	161	69	202	416			
Peshawar	5		1	2321	1282		3055	17		
Swabi	2						358		5	
Swat	5	44	3	221	127	410		18		376
Total	66	110	15	3676	2379	2123	8486	169	27	420

6.5 IRRIGATION DEPT:

Vulnerability Assessment of Irrigation Infrastructure

Districts	Rivers/ Nullas/ Torrents	Length in KM	Vulnerable Ucs	At Risk Population
Charsadda	kabul, Adezai, Khiali, Jindi, Hisara, Dab, Shobla	111.87	24	527,434
Chitral	30 torrents, 1 River	714	15	252,000
DI Khan	Drain 1-23, Indus, FCC (leni, Khud warkai, Velhari, Gajistan, Sheerana, Amak),	335	15	641,000
Dir Lower	57 torrents, 2 Rivers	91	10	315896
Kohsitan	Goshali, Dassu, Harban, Kaandia, Seo, Pattan, Keyal, Dubair, Ranolia, Sherakot, Sheryal, Musha, Kolay	117.5	19	245,735
Mardan	Kalpani	57	5	360,108
Nowshehra	Kabul, Bara, Naguman, Adezai, Shahibala, Garandai, Takhtabeg, Dallas, Chilla, Daggai, Khudrezai, Chinkar, Shahalam, Budni, Sufaid Sang, Spair sang, Nasirbagh, Malakandair, Janai, Talaband, Marizang, Uch & Arando, Jalazai, Pirpai, Jani	721	28	450,584
Peshawar	Kabul, Bara, Naguman, Adezai, Shahibala, Garandai, Takhtabeg, Dallas, Chilla, Daggai, Khudrezai, Chinkar, Shahalam, Budni, Sufaid Sang, Spair sang, Nasirbagh, Malakandair, Janai, Talaband, Marizang, Uch & Arando, Jalazai, Pirpai, Jani		24	858,098
Swat	Jambil, Murghazar, Mingora, Haroonai, Banwai, Manglore, Khwazakhela, Chailmadiyan, Darra, Mankial, Maidan, Shin, Sulathan, Shwar, Sarsainai, Shamoza, Puranetai, Chakaisar, Swar	468.5	40	1,015,198

Flood Fighting Machinery with Irrigation Department							
List of machinery				R&M need	Response time, restore breaches and deploy machinery	Contact details of R&M contractor	Machinery available with contractor
S.no	Name	Qty	Status				
1	Doosan Excavator 180wv	1	Running	No	Nil	Nil	No
2	Mack Trallor 35 ton	1	Old model	No	Nil	Nil	No
3	Air compressor (Ingersoll Rand)	1	do	No	Nil	Nil	No
4	Tractor 640 FIAT & Water Tanker	1	do	No	Nil	Nil	No
5	Fork lifter (case)	1	do	No	Nil	Nil	No
6	Bed ford truck no A3539	1	do	No	Nil	Nil	No
7	Flood light unit no 1	1	do	No	Nil	Nil	No
8	Front end Loader MW24 case	1	do	No	Nil	Nil	No
9	Front end loader no 1 case 721	1	do	No	Nil	Nil	No
10	Front End loader case 14wb	1	do	No	Nil	Nil	No
11	Dozer crawler 1550 case	1	do	No	Nil	Nil	No
12	Dump truck 002 international	1	do	No	Nil	Nil	No
13	Dump Truck 004 international	1	do	No	Nil	Nil	No

6.6 C&W DEPARTMENT (PKHA)

Pakhtunkhwa Highways Authority manages highways having total length of 2936 km.

S#	H/Way	NAME OF HIGHWAY	Length (km)
1	S – 1	Peshawar – Charsadda – Mardan – Swabi – Topi – Ghazi – Serikot – Panian – Haripur – Hattar – Taxila	194
2	S – 1 A	Naguman – Shabqadar – Pir Qilla	17
3	S – 1 B	Mardan Eastern & Western Bypass	33.60
4	S - 1 C	Adina – Yar Hussain – Lahor District Swabi	25
5	S – 1 D	Serikot – Gudwalian Road	8
6	S – 2	Chitral – Mastuj – Shandur (Distt. Chitral)	172
7	S-3	Batkheila-Khar-Dheri-Julagram-Totakan-Qulangi-Agra-Kot-Dargai	90
8	S-3-A	Qulangi (Japan Bridge) to Bandagai District Dir Lower	26
9	S-3-B	Chakdara-Shamozai-Kabal-Kanju-Matta-Bagh Dheri	80
10	S – 4	Timergara–Munda–Khar–Nawagai–Ghallanai–Pir Qilla–Peshawar	169
11	S - 4 A	Munda – Samarbagh – Shahi – Chukiatan	97
12	S – 4 B	Timergara - Maidan – Kalpani - Barawal	53
13	S – 5	Maqsood – Lora – Ghora Galli – Barrian – Nathiagali – Abbottabad	117
14	S – 5 A	Kuza Gali – Ayubia – Khanspur	6.15
15	S – 5 B	Sarai Saleh - Serian village via Rehana	12
16	S – 5 C	Kohala – Pir Sohawa – Islamabad	20
17	S-5-D	Tarnawa Kohala Bala road District Haripur	35
18	S – 5 E	Rehana - Mang	16
19	S – 6	Swabi-Jehangira-Khairabad-Nizampur-Khushalgarh Road Junction	123
20	S-6A	Nowshera-Manki-Nizampur	35
21	S – 7	Kohat – Hangu – Thall – Chapari – Parachinar	194
22	S – 8	Thall– Mirali–Isha–Razmak–Khirgi–Tank–D.I.Khan– Darya Khan	335
23	S-8A	Giloti – Hatala – Kulachi – Mastan	66
24	S – 9	Nowshera – Charsadda – Umerzai – Harichand – Shergarh	73
25	S – 9 A	Takht Bhai – Rajjar	22
26	S – 9 B	Umerzai to Tangi Tehsil Headquarter	12

27	S- 10	Shahbazgara – Rustam – Ambila – Daggar – Karakar – Barikot	103
28	S-10A	Swarai – Dewana Baba – Batar – Sarqilla – Chowga to Puran District Shangla	65
29	S- 11	Tajazai – Lakki – Daratang – Chashma – D.I. Khan	155
30	S-11 A	Indus Highway – Bannu Township – Bannu City	36
31	S-11 B	Indus Highway to Lakki Town Via Manjiwala – Paharkhel	19
32	S- 12	Mansehra-Darban-Chappar-Haripur	167
33	S – 12 A	Haripur Bypass Road	25
34	S-13	Karak-Sabir Abad-Shakardara-Karapa	76
35	S – 13 A	Amberi Killi to Abbasi Banda	35
36	S-14	Risalpur to Jehangira via Pir Sabaq – Misri Banda with a link to Akora Khattak and Mardan Ring Road via Motorway Wali Interchange.	50
37	MWKP-1	Swat Expressway	81
38	S-15	Manglawar - Malam Jabba, District Swat	35
39	S-16	Chukiatan – Sheringal – Patrak	35
40	S-17	Matta - Fazil Banda	23
TOTAL LENGTH			2936

6.6.1 VULNERABLE BREACHING POINTS OF PKHA ROADS

S#	List of Roads / Bridges	Location	Officer Incharge	Nature of Damage
1	Budni Bridge	Km 2 (S-1)	DD (Center)	Road over topped by flood water near Budhni Bridge. The right carriage way was washed away while mud slurry, stone debris and wood planks are staked on left carriage way by flood water.
2	Sardaryab-Khayali-Charsadda Section	Km 22-30 (S-1)	DD (Center)	Road over topped by flood water near Sardaryab to Khyali Bridge. Also 200 feet approach of Khyali Bridge towards Peshawar side was washed away by the heavy flood in River Swat
3	Charra Bridge	S-1 Naguman-Charsadda	DD (Center)	Approaches washed away
4	Michni (New Bridge)	S-4	DD (Center)	Approach towards Michini side was scoured and protection work damaged
5	Michni (old Bridge)	Km 21 (S-4)	DD (Center)	Scouring at the abutments was absorbed
6	Pir Bala-Mathra Section near Almasah Town	Km 7-14 (S-4)	DD (Center)	Road over topped by flood water in various reaches and down-stream shoulder washed away.
7	Jehangira Bridge	S-6 (Swabi - Jehangira Km 2)	DD (Center)	Approaches of the bridge were totally damaged/washed away upto 70 m
8	Manki Bridge	S-6 (Swabi - Jehangira Km 18)	DD (Center)	Protection work damaged
9	Panjpir Bridge	S-6 (Swabi - Jehangira Km 28)	DD (Center)	Protection work damaged
10	Kala Bridge	S-6 (Swabi - Jehangira Km 30)	DD (Center)	Protection work damaged
11	KM 2, L/S Swabi - Topi	S-1 (Topi - Gadoon)	DD (Center)	Road surface overtopped and shoulders damaged
12	KM 2, R/S Swabi - Topi	S-1 (Topi - Gadoon)	DD (Center)	Road surface overtopped and shoulders damaged
13	Sherbaz Banda Bridge Swabi - Topi	S-1 (Topi - Gadoon)	DD (Center)	Scouring around the abutment was absorbed
14	Baja Bridge, KM -9 Swabi - Topi	S-1 (Topi - Gadoon)	DD (Center)	Approach damaged
15	Baja Bypass Bridge KM-10, Swabi Topi	S-1 (Topi - Gadoon)	DD (Center)	Approach damaged
16	Bada Bridge Swabi - Topi	S-1 (Topi - Gadoon)	DD (Center)	A span of bridge settled down
17	Himlit Canal Bridge Swabi - Topi	S-1 (Topi - Gadoon)	DD (Center)	Approach of the bridge overtopped
18	Kalpani Bridge on Mardan Eastern Bypass Road	Km 4 (S-1-B)	DD (Center)	Approaches damaged
19	Jehangira Bridge	Km 30 (S-6)	DD (Center)	Swabi side approach washed away
20	Nowshera-Nisatta-Charsadda Road	S-9	DD (Center)	Road over topped by flood water from km 1 to 9 and downstream shoulder washed away.

21	Hajizai Bridge	Naguman-Shabqadar Road (S-1-A)	DD (RMU)	Approach road overtopped and Peshawar side approach was disconnected
22	Dera Darya Khan Bridge	S-8 (D.I.Khan)	DD (South)	Pile caps shows cracks
31	Khazana Bypass Road / Bridge	S-4 (Timergara)	DD (North)	Bridge damaged
32	Mingora Bypass Road (6 kms)	District Swat	DD (North)	Overtopped on 2km near river swat
33	Swari-Dewana Baba-Puran Road	S-10-A	DD (North)	Land Sliding
34	Samar Bagh-Shahi Road	S-4-A (Dir)	DD (North)	Land Sliding
35	Ambella Daggar Karakar Barikot Road (KM 85)	S-10	DD (North)	Slides on 400m length on karakar top.
36	Batkheila – Totakan Section i/c 3 Bridges	Km 8-20	DD (North)	Road overtopped and slides occurred on road crust
37	Haripur-Darban-Chappar Road	S-12 (Km 10-60)	DD (East)	Land Sliding
38	Barrian - Nathiagali - Abbottabad Road (57.50 Km)		DD (East)	Land Sliding
39	Maqsood-Lora-Gora Gali-Barian-Nathiagali-Abbottabad Road i/c Link road to Ayubia	S-5 & S-5-A (District Haripur/ Abbottabad)	DD (East)	Land Sliding

6.7 ELEMENTARY & SECONDARY EDUCATION DEPARTMENT

S.No	District Name	Vulnerable Schools	Temporary Shelters/ Relief Camps	Wash Facilities	Capacity to House HoH	Roster of Teaching & other Staff
1	Abbottabad (M)	194	14	38	249	69
2	Battagram (M)	5	43	Available	387	65
3	Buner (M)	14	3	Available	30	5
4	Charsadda (M)	10	74	Available	671	Available
5	Charsadda (F)	7	16	62	82	Available
6	Chitral (M)	159	431	Available	2389	1327
7	Chitral (F)	Nil	3	Available	21	15
8	Hangu (M)	18	18			23
9	Haripur (M)	9	4	Available	106	88
10	Haripur (F)	12	3	Available	58	85
11	Karak (F)	18	All Schools	Available	1434	5983
12	Kohat (M)	0	16	Available	116	16
13	Kohat (F)	0	376	Available	606	641
14	Kohistan (M)	48	7	Available	55	245
15	Lakki Marwat (M)	31	21	Available	222	66
16	Malakand (M)	37	20	Available	246	35
17	Malakand (F)	10	4	Available	98	190
18	Mansehra (M)	8	8	Available	95	100
19	Mansehra (F)	10	8	Available	94	62
20	Mardan (M)	32	28	141	199	156
21	Mardan (F)	6	6	Available	73	37
22	Nowshera (M+F)	54	244	1156	1810	3723
23	Peshawar (F)	9	37	Available	237	433
24	Shangla (M)	32	12	Available	180	180
25	Shangla (F)	3	9	67	128	177
26	Swabi (M)	22	85	Available	1069	287

27	Swat (M)	5	7	Available	194	470
28	Swat (F)	16	14	54	88	190
29	Tank (F)	5	7	Available	42	42
30	Torghar (M)	87	31	Available	139	139
31	Torghar (F)	41	4	Available	19	14
	TOTAL	902	1553	1518	11137	14863

6.8 FOOD DEPARTMENT

Wheat Stock Position

Food Development Wheat Stock Piling (M. Ton)					
#	District	Quantity	#	District	Quantity
1	Nowshera	6960	14	Kohat	2407
2	Buner	2321	15	Karak	994
3	Bannu	0	16	Kohistan	0
4	Battagram	2282	17	Mardan	2000
5	Charsadda	992	18	Mansehra	1567
6	Chitral	10391	19	Peshawar	11261
7	DI Khan	8	20	Tank	0
8	Malakand	9853	21	Swat	6755
9	Dir Lower	4821	22	Shangla	0
10	Dir Upper	538	23	Swabi	2000
11	Hazara	2439	24	Tor Ghar	0
12	Abbottabad	3639	25	Kakki Marwat	35
13	Hangu	3197			
	Gross Total				77,810



CHAPTER-7

MASS AWARENESS CAMPAIGNS

7.1 AWARENESS CAMPAIGNS ON SOCIAL MEDIA

PDMA KP uses social media tools to reach wider audience in the digital world. Broushers developed by Media Section for awareness raising are regularly shared on its facebook, twitter pages where huge no of following make it easy for wider public outreach with zero financial implications.

7.2 Social Media/Whats App Groups

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

- i. Facebook Account (close liaison with Directorate of Information and other line Departments)
- ii. Twitter Account
- iii. Skype Group
- iv. Whats App Groups
- v. PDMA official Group
- vi. PDMA/DDMOs Group
- vii. PDMA Information Highway
- viii. PDMA Media Cell
- ix. PEOC official Group
- x. Android Application
- xi. Official Website

7.3 AWARENESS CAMPAIGNS ON PRINT MEDIA AND RADIO CHANNELS

PDMA has adapted a strategy by 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.

- i. Press Releases
- ii. Tickers for electronic media
- iii. Newsletters
- iv. Website (www.pdma.gov.pk)
- v. Social Media (Facebook, YouTube, Twitter and whats app groups etc.)
- vi. Backdrops, Poster, Flyers, Broachers, Banners, Flags, Stickers
- vii. Billboards (Targeted Places)

7.4 AWARENESS CAMPAIGNS IN SCHOOLS/COLLEGES AND UNIVERSITIES

PDMA KP has conducted series of training and awareness sessions with students at various levels in order to rely on the use of “word of mouth”. A volunteer task force has been formulated at school and college levels to help communities during emergency situation. These trained volunteers will provide additional trained support for emergency management.



برسات میں حفاظتی اقدامات ضرورت بھی ضروری بھی



طوفانی بارشوں اور ممکنہ سیلاب سے بچاؤ کے لئے احتیاطی تدابیر

- ✓ برساتی نالوں اور سیوریج سسٹم کے اندر کوڑا کرکٹ، ملے، خصوصاً پلاسٹک، بیک اور بوتلیں بھینکنے سے اجتناب کریں۔
- ✓ لینڈ سلائڈ کی زد میں رہائش پذیر، پہاڑی و برساتی نالوں اور دریاؤں کے گرد و فواح کے کمین محفوظ مقامات کی نشاندہی کر کے رکھیں اور ہنگامی صورتحال میں فوراً منتقل ہو جائیں۔
- ✓ کسی بھی ہنگامی صورتحال کے خدشہ کے پیش نظر بروقت اطلاع کے لئے مساجد سے فوراً منادی کروائیں۔
- ✓ خواتین، بچوں، بوڑھوں اور معذور افراد کا ترجیحاً خیال رکھیں۔
- ✓ جانوروں کے چارے کا بندوبست کر کے رکھیں۔
- ✓ تیز آمدنی اور بارش کی صورت میں بجلی کے کھمبوں، تاروں، کچی دیواروں، سائن بورڈز اور درختوں سے دور رہیں۔
- ✓ وقتی فوٹو FM ریڈیو، اخبارات، ایس ایم ایس اور ٹیلی ویژن کے ذریعے موسم اور سیلابی صورتحال سے آگاہ اور باخبر رہیں۔

پی ڈی ایم اے اس عزم کا اظہار کرتی ہے کہ قدرتی آفات سے درپیش خطرات کو بہتر حکمت عملی سے کم کیا جاسکتا ہے۔

کسی بھی ہنگامی صورتحال میں
اپنی سلامتی انتظامیہ پی ڈی ایم اے
خیبر پختونخوا کٹرول روم سے
1700 یا 091 9213867 پر کسی بھی وقت
رابطہ کریں۔

عوام کے تحفظ اور خدمت کے لئے مصروف کار



پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی
محکمہ ریلیف، بحالی و آباد کاری، حکومت خیبر پختونخوا



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دوران برسات طوفانی بارشوں اور ممکنہ سیلاب سے بچاؤ کیلئے

احتیاطی تدابیر

- راجہ پریہ کی اور امدادات کے ذریعے موسم اور سیلابی صورتحال سے کاہلی کریں۔
- تیز طوفان کی صورت میں بجلی کی تاروں، کھمبوں، سائین بورڈز اور درختوں سے دور رہیں۔
- فضائی حکومت سے کھجور و مٹائیاں اور دیگر اشیاء کی معلومات حاصل کریں۔
- کسی بھی بجلی اور مواصلاتی شہر سہولت سے اطلاعات کراہیں۔



- خود سیلاب کے متعلق خبردار رہیں، زمینی نالوں کے قریب نہ جائیں، دھمکیاں اور گرنے سے گریز کریں۔
- زمینی نالوں اور سیوریج سسٹم میں کوڑا کرکٹ، خصوصاً پلاسٹک، ٹیکسٹائل اور دیگر پسماندہ چیزیں نہ پھینکیں۔
- زمینی نالوں پر چڑھ کر نالوں اور دریاؤں کے قریب نہ جانے کی کوشش نہ کریں، ہولناکیاں ہو سکتی ہیں۔
- شہر کے بھی جانوروں کے کھنکھرانے کی بجائے حوصلے سے رہیں۔

پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی، خیبر پختونخوا

1700 یا 091-9213867 پر کئی گھنٹہ پہلے کریں۔

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محکمہ ریلیف، بحالی و آبادکاری

حکومت خیبر پختونخوا

پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی

حکومت خیبر پختونخوا

مومن سون خصوصی آگاہی مہم

موسم برسات۔۔۔ بہت احتیاط

برساتی نالوں اور سیوریج سسٹم میں کوڑا خصوصاً پلاسٹک کی اور بوتلیں وغیرہ نہ پھینکیں

پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی

حکومت خیبر پختونخوا



SAFETY MEASURES DURING MONSOON VERY IMPORTANT FOR YOUR PROTECTION



PRECAUTIONARY MEASURES FOR SAFETY IN THE EVENT OF TORRENTIAL RAINS AND FLOODING



✓ ENSURE CLEANING OF ROOFS AND DRAINAGE OF WATER ALONG WITH COATING OR CEMENT PLASTER ON MUD BUILT WALLS.



✓ RESIDENTS OF LOW-LYING AREAS MUST KEEP THEIR IMPORTANT AND VALUABLE ITEMS AT A SECURE AND HIGHER PLACE IN THEIR HOMES.



✓ ENSURE TIMELY RELOCATION FROM DAMAGED "KATCHA" HOUSES AND BUILDINGS IN CASE OF RAIN.



✓ ADOPT PRECAUTIONARY MEASURES AND ENSURE TIMELY VACCINATION FOR PROTECTION FROM DISEASES ESPECIALLY CHOLERA/SKIN DISEASES.

✓ DON'T TRY TO CROSS FLOOD WATER, DRAINS AND RIVERS.

✓ STAY UPDATED FOR IMPORTANT INFORMATION FROM DISTRICT ADMINISTRATION REGARDING SECURE LOCATIONS AND RELIEF CAMPS.

**REMEMBER! BETTER PLANNING AND STRATEGY CAN HELP
REDUCE THE THREATS CAUSED BY NATURAL DISASTERS.**

IN CASE OF ANY UNFAVORABLE SITUATION CONTACT DISTRICT ADMINISTRATION
OR CALL 24/7 PDMA KP CONTROL ROOM

0919213867 OR 1700



Provincial Disaster Management Authority
Relief Rehabilitation & Settlement Department
Government of Khyber Pakhtunkhwa

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پشکال بارانونو کښي ډير احتياط

د طوفاني بارانونو او سيلاب نه بچ کېدو لپاره احتياطي ګامونه



✓ باراني نالو او سپوريج سسټم کښي دننه ګنده او په خاص توګه د پلاسټک شاپنګ بېګ او بوتلو غورځولو نه ډډه لورئ

✓ د لېنډ سلائيډنگ، غرونو، باراني نالو او سيندونو ګېرچاپېره اوسېدونکي دې د محفوظ ځايونو نشاندهي لورې او هنګامي صورتحال کښي دې په ژورې توګه هلته ځان اورسوي



✓ د زلانو، ماشومانو، مشرانو او معذوره خلقو دې په خصوصي توګه خيال اوساتلې شي

✓ د طوفان اور تېز باران په وخت کښي د بجلي، ستونو، سائلن بورډونو، تارونو، کچه دېوالونو او د ونو نه لرې اوسئ



✓ بر وخت د اېف اېم رېډيو، اخبارونو، ټېلي ويزن او اېس اېم اېس په ذريعه ځان د موسم او سيلابي صورتحال نه خبروي

✓ څاروو/ځناورو دېلره د خوراک بندوبست هم لورئ



پي ډي ايم اے ددې عزم اظهار کوي چي قدرتي آفاتونو نه ممکنه خطرات په ځانګړي توګه کم کړي شي

د هر قسمه ښکاري صورتحال په وخت کښي متعلقه ضلعي انتظاميې پاڼي ډي ايم اے سره په ډي تيمور رابطه کولاي شي

1700 او 0919213867



دعوام حفاظت او خدمت د پاره مصروف کار

پراونشل ډيزاسټر مينجمنټ اتھارټي
محکمہ ريليف، بحالي و آبادکاري، حکومت خيبر پختونخوا

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موسم برسات میں خصوصی احتیاط رحمت کہیں زحمت نہ بن جائے

برسات اور سیلاب کے دنوں میں حادثات کا زیادہ خطرہ ہوتا ہے۔ ایسے میں خصوصی احتیاطی تدابیر اختیار کریں۔

- ☆ تیز آمدنی اور بارش کی صورت میں بجلی کے گھروں، تاروں، کھجی دیواروں، سائن بورڈز اور درختوں سے دور رہیں۔
 - ☆ ہنگامی صورتحال کے پیش نظر ضروری اشیاء خورد و نوش، ادویات اور ضروری اشیاء تیار رکھیں۔
 - ☆ بوسیدہ، کچے مکانات اور عمارتوں سے شدید بارش کی صورت میں بروقت منتقل ہونے کو یقینی بنائیں۔
 - ☆ ضلعی انتظامیہ سے محفوظ مقامات اور ریلیف کیپ سے متعلق ضروری معلومات بروقت لیں۔
 - ☆ سیلابی ریلے، ندی نالوں اور دریاؤں کو پھیل یا کسی سواری کے ذریعے عبور کرنے کی ہرگز کوشش نہ کریں۔
 - ☆ لینڈ سلائڈز کی زد میں رہائش پذیر، پہاڑی و برساتی نالوں اور دریاؤں کے گرد وواح کے کمین محفوظ مقامات کی نشاندہی کر کے رکھیں اور ہنگامی صورتحال میں فوراً منتقل ہو جائیں۔
 - ☆ کسی بھی ہنگامی صورتحال کے خدشہ کے پیش نظر بروقت اطلاع کے لئے مساجد سے فوراً منادی کروائیں۔
 - ☆ دفعتاً FM پر یو۔ایچ۔بھارت، ایس ایم ایس اور ٹیلی ویژن کے ذریعے موسم اور سیلابی صورتحال سے آگاہ اور باخبر رہیں۔
- یہی ڈی ایم اے اس عزم کا اظہار کرتی ہے کہ قدرتی آفات سے درپیش خطرات کو بہتر حکمت عملی سے کم کیا جاسکتا ہے۔

ہنگامی صورت حال میں اپنی ضلعی انتظامیہ یا پی ڈی ایم اے خیر بختونو کنٹرول روم سے 1700 یا 0919213867 پر کسی بھی وقت رابطہ کریں۔



احتیاط حادثات سے نجات
عوام کے تحفظ اور خدمت کے لئے مصروف کار
پرائفٹل ڈیزاسٹر مینجمنٹ اتھارٹی
محکمہ ریلیف، بحالی و آبادکاری، حکومت خیبر بختونخوا





دریا میں احتیاطی
تدابیر کے بغیر نہانا
موت کو دعوت دینا ہے

دریاؤں کی سیر ضرور کیجئے لیکن! دریا کا بہاؤ تیز ہونے کی صورت میں پانی سے دور رہیں
محکمہ ریلیف بحالی و آبادکاری حکومت خیبر پختونخوا




سیاحتی مقامات پر احتیاطی حادثات سے نجات

عید الفطر کے موقع پر
دریاؤں کی سیر ضرور کیجئے لیکن!
دریا کا بہاؤ تیز ہونے کی صورت میں پانی سے دور رہیں
بغیر لائف جیکٹ کے کشتی میں سفر نہ کریں
کشتی میں سفر کے دوران سیٹلی نہ بنائیں
کشتی میں کم عمر بچوں اور بزرگ افراد کو نہ بٹھائیں

خدمت تحفظ عبادت
محکمہ ریلیف بحالی و آبادکاری
حکومت خیبر پختونخوا




7.5 PDMA MOBILE APP (ANDROID + IOS)



PDMA KP has developed a Mobile App that is available on play store for Android and IOS smart phone users. This app provides weather updates, advisories, guidelines and instructions to general public as well as for administrators. Moreover, this app also provides an opportunity for PDMA to disseminate awareness messages to its users. Following are the salient features of this App:-





- i. General Public can view and share the following:
- ii. Warning Reports
- iii. Incident Reports
- iv. Relief Activities Information
- v. Flood Reports
- vi. Daily Situation Reports
- vii. Rainfall Forecast
- viii. PMD Alerts
- ix. Natural Disasters Precautions
- x. Relief Activities Information
- xi. River Flow Information
- xii. Loses and Natural Disasters Reports


Get access to Emergency Alert from PDMA at your Finger Tips
Search for
Emergency Alert PDMA KP
you will get easy access over the reports and information.

- ✓ Working Reports
- ✓ Daily Situation Reports
- ✓ Incident Reports
- ✓ Natural Disaster Reports
- ✓ Relief Activities, information and much more



 
**Provincial Disaster Management
Authority (PDMA)
Khyber Pakhtunkhwa**

 PDMAmediacell  pdmakpk  www.pdma.gov.pk  Send KP to 8333

 GET IT ON
Google Play



PDMA Teams on Public Awareness Campaign in Peshawar City



PDMA Team on Khyber Pakhtunkhwa 92.2 FM Radio (Mass Awareness Campaign for General Public)



A vibrant blue sky with a bright sunburst breaking through a layer of white, fluffy clouds. The sunburst consists of numerous rays of light, transitioning from a pale yellow at the source to a deep blue at the edges. The clouds are rendered in various shades of white and light blue, creating a sense of depth and texture. The overall composition is clean and modern, with a strong emphasis on the color blue.

CHAPTER-8

CHALLENGES AND
SITUATIONAL ANALYSIS





8.1 CHALLENGES & SITUATIONAL ANALYSIS

Floods are recurrent phenomena especially during monsoon season in the entire region of South Asia, owing to the peculiar geographic conditions, the province of Khyber Pakhtunkhwa is highly vulnerable to flash floods. There is a huge network of hill torrents, streams in the mountainous region, which fed rivers downstream in the planes of the province. Heavy concentrated rainfall in the hill sides result in unprecedented flow of water in the hill torrents, which due to lack of water storage facilities, encroachments and deforestation results in soil erosion, sedimentation of water ways and dams. Flash floods have a devastating effect, due to higher population growth and urban sprawl, the situation is exacerbated with narrowness of water ways, streams and hill torrents, it increases velocity of flowing water that results in colossal damages to life and property. This emerging challenge can be mitigated through construction of check dams in hilly areas, small water reservoirs, water channels, embankments, dykes, bioengineering slope stabilization techniques and afforestation measures throughout the province. An integrated planning is required to secure vulnerable areas by adapting to mitigation measures through the high priority schemes in development planning at all levels in the province to secure population from impacts of floods. At present there is lack of aforementioned measures, which increases the vulnerability of the province to climate induced hazards. There are certain challenges faced, that have exacerbated the existing vulnerabilities of the province to climate change effects.



8.2 CHALLENGES

8.2.1 LIMITED FLOOD PROTECTION ARRANGEMENTS:

This is an obvious fact that the Province of KP lacks all the protective arrangements, in order to extend the desirable protections to safeguard the vulnerable population against disasters of floods. Though there are some protective arrangements present in the province, which protects DI Khan city along with the Indus.

8.3 FLOOD PROTECTION ARRANGEMENTS

S/N	DESCRIPTION	NUMBER	LENGTH(KM)
1	Spurs (Earthen) along Indus River in D.I Khan	44	62.7
2	Marginal Bunds Indus River in D.I Khan		
	i. Chashma to Village Khanpur	1	12
	ii. Khanpur to Thathal Village	1	6
	iii. From Spur No 31 to 33	1	8
3	Spurs to other areas of the Province	497	23.6
4	Other Bunds	49	133.6
5	Retaining walls in gabions	96	40.4
Total		689	286.3

Note: 21 spurs in Dera Ismail Khan have gone silent/abandoned due to construction of Chashma Barrage. Now only 23 are in service.

8.3.1 CONVENTIONAL METROLOGICAL GRID IN THE PROVINCE

There are 16 met stations in the province, whereas, the same are in immediate need of technological upgradation. Long range radars in some elevated points will cover major parts of the province, while installation of automatic weather stations in hill stations will be sufficient to enhance the weather forecasting capacity of Pak Met Department, which is mandatory for climate based smart planning.

8.3.2 LOW TECH BASED FLOOD EARLY WARNING ARRANGEMENTS:

The existing arrangements rely on flood gauging through telemetry system of WAPDA and some other basic systems of gauges being deployed by the Irrigation Department Khyber Pakhtunkhwa. Due to the limited capacities of forecasting, which the existing arrangements provides, give less time to prepare for floods. Real time telemetric devices have to be deployed at existing irrigation gauging points on different rivers and streams in the province. At present an ADP scheme of Provincial Government will cover only 07 sites for installation of hydro metrological telemetric devices, however, 40 more sites have to be covered at least to provide accurate real-time information to fore warn vulnerable communities in high risk zones.

8.3.3 ENCROACHMENTS:

Encroachment, by people, in the province, on river's banks is one of the major causes of losses (both life and property) during all floods and that of 2010, which witnessed a catastrophic situation and circumstances in the province. Population incursion along all the major rivers, especially, Panjkora, Swat and Kabul Rivers as well as along Indus and all those areas which are prone to floods by hill torrents in the North are mainly responsible for the loss of life and property, in times of floods. Similarly, blocked and heavily encroached drainage systems of settled areas, especially in Peshawar valley, plays a major role in inundation which results in damages and destructions.

8.3.4 CAPACITY GAPS AT DISTRICT LEVELS:

Monsoon preparedness activities are initiated at provincial and district levels to identify vulnerable hot spots and device a response plan keeping in view the existing vulnerabilities. However, the agencies responsible for response lack sufficient machinery and face capacity issues regarding their human resources. Regular mock drills are not conducted at district level. Thereby leaving gaps, that has to be covered to strengthen the preparedness capacity of DDMUs that is vital for a proactive response to disaster management. The mentioned factor, along with inadequate resources, undermines the response capacities at both levels. The reactive response strategies at district and provincial levels did help save lives and provide solace to the flood effected population to large extent, however, extraordinary efforts are required, which are only possible in times of proactive measures.

8.3.5 NON-OBSERVANCE OF EARLY WARNINGS BY GENERAL PUBLIC:

Another serious aspect, which is witnessed, especially in Charsadda, Nowhere and Peshawar, was the lack of seriousness to observe and care for the flood early warning(s) by general public of the province. People had tendency to stay in their home and resisted to evacuate till flood water completely overwhelmed and marooned them. Consequently, scarce as well as late rescue resources (boats and helicopters) were over burdened by salvage missions.

8.3.6 INSUFFICIENT WATER STORAGE AND REGULATION CAPACITY:

The water storage facilities in Khyber Pakhtunkhwa have been reduced drastically, and with the passage of time, ranging from 70- 30% in different storage reservoirs, mainly due to silting, which has ultimately reduced their flood mitigation capacities. In addition, the regulatory facilities i.e. Munda and Amandara head-works on Swat River sustained damages in 2010 Floods and took two years to rehabilitate.

8.3.7 UPSTREAM AND DOWNSTREAM POOR WATER MANAGEMENT BY DAMMING AUTHORITIES

Damming Authorities have arrangements in place for upstream catchment areas which measures flow of water, however, there are no arrangements in place to regulate flow of water into and from dams so as to maintain sufficient balance of water as well manage inflow and outflow of water by Damming Authorities. It was the extensive release of water from Tarbela Dam which pushed backward the River Kabul flow at Khairabad, that resulted in backward movement of Kabul, which spread havoc in Nowshera. This can be managed if damming authorities prudently manage inflow and outflow of water regularly.

8.3.8 NON-IMPLEMENTATION OF BUILDING CODES AND LAND USE PLANS

There are legal provisions for implementation of building codes with TMAs, however, the enforcements are not made in its true spirit, which results in urban sprawl and low-quality infrastructure that is prone to shocks of earthquakes and cyclones. Additionally, there is lack of land use plan, which results in conversion of agriculture land into residential zones that have huge implications for future food security, as most of the fertile land in the province is subject to the expansion of real state business, which seems apparently attractive for the landowners. BoR must in place strict rules and impose ban on transfer of land whereas local governments must cancel NOCs of real state firms/agents which is causing urban sprawl.

8.3.9 STRENGTHENING OF DDMUs AND CONDUCT OF MHVRA

District Disaster Management Units are the first responders to any disaster event. Therefore, their capacities are of utmost importance. Unfortunately, this important tier has been ignored in planning phase, which needs to be capacitated with the requisite resources for swift emergency response to monsoon and other hazards.

MHVRA (Multi Hazard Vulnerability Risk Assessment) is a standardized tool used for risk assessment in a district. This provides a baseline for elements at risk and provides technical insights for future development in the area. In developed countries all public and private infrastructure like buildings, bridges, roads and other facilities are constructed keeping the technical input available from the MHVRA dataset. In absence of MHVRAs sound judicious development cannot be undertaken. Therefore, PDMA KP has included a project to be financed through the financing avenue of NDRMF, which provides funding for disaster risk reduction to provincial governments on cost sharing basis.

8.4 WAY FORWARD

- i. Upgradation of Met Observations and Installation of Automatic Weather Stations
- ii. Improving Storage Capacities at District Level for Relief Stocking
- iii. Upgradation of Flood Early Warning System in the province.
- iv. Anti-Encroachment Campaigns by District Administration and Irrigation Dept
- v. Strengthening Water Storage and Regulatory Capacity
- vi. Improving Incident Command System for swift emergency response
- vii. Use of technology for timely information and swift instructions by senior management.

Participation of senior management for preparation of sectoral monsoon response plans.



A vibrant blue background featuring a sunburst of light rays emanating from behind a series of white, fluffy clouds. The rays transition from a bright yellow at the source to a deep blue at the edges. The clouds are rendered in various shades of white and light blue, creating a sense of depth and texture.

CHAPTER-9

DIRECTORY PROFILE
FOR MCP 2019

9.1 PROVINCIAL EMERGENCY OPERATION CENTRE (PEOC) IN PDMA

Incharge Name	Telephone Number	Fax Number
Mr. Fahad Tahir Incharge PEOC Whatsapp# 0311-9281272	091-9213845	091-9214025
	091-9213867	
	091-9223662	
	091-9212059	
	091-5274625	
	091-5274339	
	1700 (Toll Free Number for General Public)	

9.2 PDMA CONTACT LIST

PDMA			
Mr. Perwaiz Khan, Director General (PDMA)	9213855	-	105
Mr. Tilla Muhammad, PS to DG	9213855	0333-9101485	106
Mian Abdul Qadir Shah, Director (HR/Administration)	9211805	0332-1931932	110
Mr. Muhammad Kashif, AD (Warehouse).	-	0321-9169636	125
RELIEF WING			
Mr. Zahid Pervaiz Director Relief		0346-6875767	120
PaRRSA			
Mr. Sajid Imran Director (Reconstruction)	9216221	0300-8582395	Fax: 9216212
Mr. Taimoor Ali, AD (Focal Person Media)		0346-4081890	109
Complex Emergency Wing			
Mr. Zeeshan Abdullah, Director	9216532	0333-9997446	Ph: 9216403 Fax: 9216520
PEOC			
Mr. Fahad Tahir , Incharge (PEOC)	9213867 - 5274339 - 5274625 9213845 – 9212059	0333-9844665, 0311-9281272	127
Mr. Anwar Shahzad Media Specialist	9213959	0313-9656965	128

9.3 CONTACT LIST OF NDMA AND OTHER PDMA'S

S.No	Name and designation	Office no/ fax no	Cell no
1	Lt. General Muhammad Afzaal, Chairman, NDMA. Maj. Amjad, Staff Officer to Chairman, NDMA (0333-8875905/ 051-9201056)	051-9222373	0321-8142678
		051-9212444	
		Fax no: 051-9202407/9204197	
2	Brig. Mukhtar Ahmad, Director Operation, NDMA	051-9214295	0334-7437633
3	Lt. Col. Muhammad Ala-Ud-Din, Director Response, NDMA	dirresponse@ndma.gov.pk	

4	National Emergency Operation Center	UAN: 111157157, 051-9205037/ 051- 9205086	
		021-99332701	
5	Mr. Syed Salman Shah Secretary DG, PDMA, Sindh.	99251458-9 99266004	0302-8207555
6	Mr. Raja Khurram Shahzad Umer DG PDMA, Punjab.	042-99203164-5 Fax no: 042-99204405	
7	Mr. Imran Zarkun, DG, PDMA, Balochistan.	081-9241118	0321-8180009
8	Mr. Syed Shahid Muhiyuddin Zadri, Secretary/DG, SDMA, Muzaffarabad, Kashmir.	05822-921536 921643	0300-5721192
		05811-922030	
9	Farid Ahmad, DG, Gilgit Baltistan Disaster Management Authority (GBDMA).	920874 Fax no: 05811-920875 Fax no: 0919216520	0341-9823306

9.4 RESCUE 1122 DISTRICT EMERGENCY OFFICERS

RESCUE 1122 DISTRICT EMERGENCY OFFICERS				
S.No	Name	Office	Mobile/Whatsapp	Email
Peshawar District				
1	Mr. Sher Dil Khan	091-9225304	0344-2379332	engrmaalik98@gmail.com
Mardan District				
2	Mr. Kamal Shah	0937-9230770/ 791	0345-9365432	kamaal.safi@gmail.com
Charsadda District				
3	Mr. Shariq Khattak	091-6515382	0313-7775858	shariqkhattak@hotmail.com
Kohat District				
4	Mr. Noor Ul Amin	0922-9260048	0345-9805740	noor1122ktk@gmail.com
Swat District				
5	Mr. Imran Khan	0946-9240262	0314-9629626	immik.mrd@gmail.com
D.I.Khan				
6	Mr. Jawad Khan	0966-9280438	0333-9299455	jawadkhankhalil82@gmail.com
Chitral District				
7	Mr. Kashif Khan	0943-414092	0345-9492450	engr.kashifakbar89@gmail.com
Abbottabad District				
8	Mr. Ghayoor Mushtaq	0992-9310519	0313-5410976	ghayur15@hotmail.com
Haripur				
9	Mr. Amjid Khan	0995-627621	0346-9717699	amjadkhan1122mardan@gmail.com
Nowshera				
10	Mr. Mir Alam	0923-9220312	0311-8242148	

9.5 COMMISSIONERS CONTACT LIST

Commissioners Contact List					
Name	Division	Office	Fax	Mobile/Whatsapp	Email
Mr. Riaz Khan Mahsod	Malakand	0946-9240226,0946-9240185	0946-9240229-178,0946-9240223(House)	0300-8599055	commissionermkd@gmail.com
Mr. Zaheer UL Islam	Hazara	0992-9310111/ 9310222/ 9310444	0992-9310500	0344-9598383	commissionerhazara@gmail.com
Mr. Mutahir Zeb	Mardan	0937-9230572-73	0937-9230578	0333-9017359	commissionermrd@yahoo.com
Mr. Amjad Ali Khan	Peshawar	091- 9211337	091-9214085	0341-0992323	commissionerpsh@gmail.com
Mr. Syed Abdul Jabar Shah	Kohat	0922-9260002	0922-9260105	0344-9047828	commissionerkohat@gmail.com
Mr. Adil Saddiq	Bannu	0928-9270044	0928-9270041	0333-9118813	commissionerbannu@hotmail.com
Mr. Javed Khan Marwat	D I Khan	0966-9280351	0966-9280352	0313-5020202	commissionerdikhan@yahoo.com

9.6 LIST OF DIVISIONAL REPORTING OFFICERS OF PDMA

S.No	Name	Designation	Divisions	Contact No
1	Muzakir shah	Reporting Officer	Mansehra	0345-9500474
2	Muhammad Umar khan	Reporting Officer	Mardan	0345-9373099
3	Manzoor Abdullah	Reporting Officer	Peshawar	0335-5510095
4	Salman Mulk	Reporting Officer	Malakand	0334-9023995
5	Maqsood Anwar	Reporting Officer	Kohat	0345-9052824

9.7 DEPUTY COMMISSIONERS CONTACT LIST

Deputy Commissioners Contact List

S#	District	Name of Officer	Office	Residence	Fax	Mobile	Whatsup No.	Email
1	Abbottabad	Mr.Aamir Afzaq	0928-9310200/01-24	0992-9310464	0928-9310202	0346-9072848	0346-9072848	depcornabbottabad@gmail.com
2	Bannu	Mr. Atta -Ur- Rehman	0928-9270032	0928-9270032	0928-9270079	0321-9879378	0321-9879378	dcbannu@gmail.com
3	Battagram	Mr.Arshad Qayum Barki	0997-310030/310136	0997-310136	0997-310051	0300-5322919	0300-5322919	ap.battagram@gmail.com
4	Buner	Mr.Shafi Ullah	0939-510450	0939-510888	0939-510427	0300-5335979	0300-5335979	postdcbuner@gmail.com
5	Charsadda	Mr. Adeel Shah	091-9220024	091-9220020	091-9220021	0334-8889178	0334-8881978	dccharsadda@gmail.com
6	Lower Chitral	Mr.Khousheed Alam	0943-412055/412519/412368	0943-412519	0943-412421	0336-5676369	0336-5676369	deputycommissionerchitral@gmail.com
7	Upper Chitral	Mr. Shah Saud	0943-470025		0943-470025	0346-9181510	0346-9181510	shamsheraliboon11@gmail.com
8	D.I.Khan	Mr.Muhammad Umair	0966-9280116	0966-9280022	0966-9280110	0300-2025434	0300-2025434	dcderaa@gmail.com
9	Dir Lower	Mr. Shaukat Ali Yousafzai	0945-9250003/09459250031	0945-9250002	0945-9250001	0345-5853539	0346-9443331	dcdirlower@gmail.com
10	Dir Upper	Mr. Abdul Hameed Khan	0944-880394	0944-880104	0944-881130	0341-6333090	0341-6333090	dcdirupper@gmail.com
11	Hangu	Mr. Muhammad Tayyab	0925-621175	0925-623968	0925-620050	0333-9103510	0333-9103510	dc.hangu@gmail.com
12	Haripur	Mr. Arif Ullah Awan	0995-611391	0995-611149	0995-615412	0300-5929888	0300-5929888	dccharipur2015@yahoo.com
13	Karak	Mr. Shahrukh Ali	0927-210825/828, 0333-9713050 ishtaiq	0927-210825	0927-210925	0321-2576568	0321-2576568	dc.karak.kp@gmail.com
14	Kohat	Mr. Matti Ullah Khan	0922-9260268	0922-9260031	0922-9260032	0300-5791090	0300-5791090	dcokohat@gmail.com
15	Upper Kohistan	Mr.Hamid Ur Rahman	0998-407002	0998-407193	0998-407001	0346-5300497	0346-5300497	dc.kohistanlower.kp@gmail.com
16	Lower Kohistan	Mr.Hasan Abid	0998-405091	0998-405113	0998-405092	0321-5722588	0321-5722588	
17	Kolai Pallas	Mr. Shah Jehan				0345-9088265	0345-9088265	
18	LakkiMarwat	Mr.Jehangir Azam	0969-538330-1	0969-538331	0969-538333	0343-9660966	0343-9660966	dc.lakki.marwat@hotmail.com
19	Malakand	Mr.Iqbal Hussain	0932-452080	0932-452043	0932-452105	0345-8822930	0345-8822930	dco_malakand@yahoo.com
20	Mansehra	Mr. Muhammad Zia-ul-Haq	0997-304148	0997-920174	0997-305513	0300-9086529	0300-9086529	dcmansehrakpk@gmail.com
21	Mardan	Mr. Abid Ali Khan Wazir	0937-9230048/45	0937-9230457	0937-9230303	0300-9597523	0300-9597523	dc.mardan0937@gmail.com
22	Nowshera	Mr. Shahid Ali	0923-9220099/98/9220098/99	0923-9220098	0923-9220159	0346-9293209	0346-9293209	dcnshrpk@gmail.com
23	Peshawar	Mr. M.Ali Asghar	091-9212302	091-9211338	091-9211418	0333-5215858	0304-0030032	dc.peshawar@hotmail.com
24	Shangla	Mr. Fiaz Khan Sherpao	0996-850005/850911	0996-850008	0996-850006	0345-9314089	0345-9314089	dco.shangla@gmail.com
25	Swabi	Mr. Salman Lodhi	0938-221300/332	0938-221220	0938-221500	0317-9955238	0317-9955238	dcswabi@yahoo.com
26	Swat	Mr.Saqib Raza	0946-9240340/337	0946-9240338	0946-9240329	0345-1288888	0345-1288888	
27	Tank	Mr. Fahad Wazir	0963-511326	0963-511326	0963-510300	0345-8587008	0345-8587008	dc.tank14355@gmail.com
28	Tor Ghar	Mr. Muhammad Tahir	(Faisal Latif) 0346-9708912 PS to DC		0997-580188	0300-5733739	0300-5733739	dc.torghar@gmail.com
29	Bajaur	Mr. Muhammad Usman	0942-220558/9		0942-220388	0346-2999993	0346-2999993	mriazkpk@yahoo.com
30	Kurram	Mr. Shah Fahad	0926-310599/313532/310766		0926-310520/311797	0333-9680299	0333-9680299	pa.kurram786@gmail.com
31	Mohmand	Mr. Iftekhar Alam	0924-290001 (Adc 0924-290189)		0924-290075	0333-4909853	0333-4909853	panohmand@gmail.com
32	North Waziristan	Mr. Abdul Nasir	0928-300798		0928-300642/300600	0345-9088004	0345-9088004	panwaofficial@gmail.com
33	South Waziristan	Mr. Nauman Afzal Afridi	0963-510364/510386		0963-510442 (0965-210296/ 210748 WANA)	0333-2458899	0333-2458899	
34	Khyber	Mr. Mehmood Aslam	9211901/4		9211900	0333-5109329	0333-5109329	
35	Orakzai	Mr. Khalid Iqbal	0925-690008/3		0925-690007	0346-9264401	0346-9264401	

9.8 CONTACT LIST OF DDMOS

S.No.	Name	District	Mobile phone	Whatsapp	Office	Offie fax	Email
1	Mr. Usman Ashraf	Abbotabad	0334-8607147	0334-8607147	0992-9310203	0992-9310202	Acabbottabad786@gmail.com
2	Mr. Shoozeab Abbas Naqvi	Bannu	0344-8708007	0344-8708007	0928-9270039	0928-9270039	Acbanu@gmail.com
3	Mr. Imran Khan	Battagram	0345-9545505	0345-9545505	0997-310391(ac)	0997-310051	
4	Mr. Latif ur Rehman	Buner dagger	0333-9112385	0333-9112385	0939-511444/0939510234	0939-510427	Latifrehman2014@gmail.com
5	Mr. Abdul Wahab Khalil	Charsadda	0312-2244244	0312-2244244	091-9220137/haron0333-9319906	091-9220026	Wahabkhalil32@gmail.com
6	Mr. Alamgir Khan	Chitral	0333-9112859	0333-9112859	0943-413686,0943-412368 (rasheed (asst) 03025976631)	0943-413686	
7	Mr. Capt. Rt own Haider Ghondal	D i Khan	0321-5771159	0321-5771159	0966-9280117	0966-9280110	
8	Mr. Shah Jameel	Dir lower	0300-5444048	0300-5444048	Home-0945-9250002/03 office-0945-9250029	0945-9250001	Ziafarukh@yahoo.com
9	Mr. Zahid Usman	Dir upper	0346-5660175	0346-5660175	0944-880506/880594/880278	0944-881130	Ac.hq.dir@gmail.com
10	Mr. Shahid Rafique	Hangu	0336-6300106	0306-5790041	0925-622682/623782-shahid munawar p.a to ddmo 0336-5821996-0333-9677749	0925-621175	Acddmohangu@gmail.com
11	Dr. Mujtaba arafat	Haripur	0333-6754701	0333-6754701	0995-610455	0995-615412	Mujtaba.arfat@gmail.com
12	Mr. Bashir ahmad	Karak	0333-7232332	0333-7232332	0927-210710	0927-210825	Ackarak.kp@gmail.com
13	Mr. Furqan ashraf	Kohat	0333-6682044	0333-6682044	0922-9260046	(assistant ddmu 03339622415)	Ackohat@yahoo.com
14	Mr. Noshervan	Kohistan lower	0346-4689015	0346-4689015	0998-405091		Ijazahmadkoh2233@gmail.com

15	Mr. Anwar akbar	Kohistan upper	0300-9039462	0300-9039462	0300-9039462	(fazal haq assistant 0313 5885509 whatsapp) 0998-407001	ljazqaisar21@gmail.com
16	Mr. Eid nawaz sherani	Lakki marwat	0334-4002121	0334-4002121	0969-510548	0969-350955	AcLakkimarwat@gmail.com
17	Mr. Sohail ahmed khan acbatkhela@gmail.com	Malakand	0344-9758646	0344-9758646	0932-412254/0342-8281294 relief asst	0932-413199	Acbatkhela@gmail.com
18	Miss. Talat fahad	Mansehra	0333-9339807	0333-9339807	0997-300751	0997-305513	
19	Mr. Asad ullah	Mardan	0322-4886662	0322-4886662	0937-9230701/ 0341-5376622 islam	0937-9230303	Acardan9230701@gmail.com
20	Mr. Talha zu bair	Nowshera	0323-4012950	0323-4012950	0923-9220104	0923-9220220	Talha.zubair90@gmail.com
21	Miss. Sarah rehman	Peshawar	0312-5777057	0312-5777057	091-9212304-9210077/haseeb 03329085616	091-9212303, 091-9214025	Rehman.sarah@gmail.com
22	Mr. Mi ihtesham ul haq	Swabi	0317-0173839	0317-0173839	0938-221401	938221917	Ehtisham169@gmail.com
23	Mr. Fida ul karim (additional charge)	Shangla	0348-4344944	0348-4344944	0996-850007/3337/850793	0996-850006	Acalpuri@gmail.com
24	Mr.amir ali shah	Swat	0333-8999185	0333-8999185	0946-9240341 - 9240008/ 0333-9488321 m.saleem	0946-9240329	Ddmuswat@gmail.com
25	Mr. Yousaf (additional charge)	Tank	0333-9274938	0333-9274938	0963-512290/510835	0963-510300	Tauseefkhan0963@gmail.com
26	Mr. Khurram rehman	Tor ghar	0346-5811180	0333-5769271	Faisal latif (ps to dc) 0346-9708912	0997-322029 not working	Kriadoon@gmail.com
27	Mr. Kashif qayum	Khyber (barra)	0334-9009056	0314-9009056	9211905	9211900	kashifqayum@gmail.com
28	Mr. Jan muhammad	Bajaur	0345-4406324	0345-4406324	0942-220432	0942-220388	
29	Mr. Qaisar	Mohmand (upper)	0333-9695212	0333-9695212	0924-290004	0924-290075	
30	Mr. Umer ahmed	Kurram (upper)	0301-6447733	0301-6447733	0926-310599	0926-310520	
31	Mr. Adil nawaz	South Waziristan (sarvekai)	0300-9060428	0300-9060428	0963-510364	0963-570442	Malikwazir@gmail.com
32	Mr. Taimur afridi	North Waziristan (mir ali)	0333-9100707	0333-9100707	0928-21414	0928-21414	

9.9 EMERGENCY CONTROL ROOM CONTACT LIST

Emergency Control Rooms Contacts			
NDMA Control Room	051-9205037	051-9087825	051-111157157
PDMA (Emergency Complex Wing)	9216483-403 (Control Room)		
Peshawar District		091-9211338, Police Control Room: 9212222	
Charsadda District	091-9220024 9220137 (PDMA-Haroon)	091-9220021	Fax: 9220137
DENGUE CONTROL ROOM PESHAWAR	9210851		
Nowshera District	0923-9220099	DC Home: 0923-9220098	
Swat District	0946-9240341 (DC Office) (Salim 0333-9488321)	0946-9240338 (0946-9240337 after office timing)	0946-9240339, 0946-9240008
Irrigation Control Rooms Peshawar Contacts			
Peshawar District (Rivers Gauge Reader)	9212114	1052	
Army Office (Lt. Osama)	5273190		Major Asad: 0321-4683833
	Flood Forecast Lahore 042-99200139 HQ 10 Corp: 051-9280782		
	Warsak Dam (Control Room 2385103)		

FLOOD EMERGENCY DIRECTORY OF IRRIGATION DEPARTMENT FOR THE YEAR, 2019

9.10 CHIEF ENGINEER (NORTH) IRRIGATION DEPARTMENT TELEPHONE DIRECTORY FLOOD SEASON, 2019

District	Appointment	Name	Contact No				Email
			Office/Fax No Phone	Resident	Civil	Mobile	
Peshawar	Chief Engineer (North)	Engr. Niaz Sarwar	091-92112123			0333-9102489	chiefnorthirr@gmail.com
Peshawar	Superintending Engineer (H/Q)	Engr. Farooq Ahmad	091-92112113			0345-9130833	
Peshawar	Technical Officer	Engr. Aqeel Azhar	091-9222719 Fax			0331-7875554	
Peshawar	Deputy Director Design	Engr. Sharif Ullah				0333-4977987	
Peshawar	Deputy Director Planning	Engr. Masood Ahmad				0331-5062426	
Peshawar	Canal Collector	Tariq Iqbal	091-9222819		0345-9320802	0335-9527387	
Peshawar	Superintendent (SWO)	Sherzaman				0333-9102952	
Mardan	Superintending Engineer Mardan Irrigation Circle Mardan						
Mardan	Superintending Engineer	Nawab Ali Khan,		0937-9230194		0300-8582071	
Mardan	Mardan Irrigation Division						
Mardan	Executive Engineer	Javed Iqbal Khattak,		0937-9230195		0302-4478228	
Mardan	SDO Mardan	Niaz Badshah,		0937-9230235		0300-5844790	
Mardan	SDO Drainage	Faiz ur Rehman				0345-9320802	
Malakand	Malakand Irrigation Division						
Malakand	Executive Engineer	Engr. Aftab Ahmad Khan,		0932-452049		0300-5877907	
Malakand	SDO W/W	M. Asif Khan		0932-411520		0345-8983483	
Swat	SWAT IRRIGATION CIRCLE						
Swat	Superintending Engineer	Ghulam Ishaq		0946-9240164	0946-725437	0308-8885566	
Swat	Swat Irrigation Division						
Swat	Executive Engineer	Wasim Mailik		0946-9240165	0946-725437	0335-9735318	
Swat	SDO Matta	Bakhtiar Khan		-		0345-3978855	
Dir	DIR IRRIGATION DIVISION						
Dir	Executive Engineer	Jawad Ahmad		0945-9250068		0346-9577518	
Dir	SDO Balambat	Suleman Shah		-do-		0346-5242054	
Dir	SDO, Dir	Shahid Khan		-do-		0345-8839223	

Swabi	SWABI IRRIGATION CIRCLE					
Swabi	Superintending Engineer	Engr. Noor Kamal`	0938-224204		0300-5840084	
Swabi	Swabi Division No.I					
Swabi	Executive Engineer	Sajjad Ahmad	0938-530484		0345-9359728	
Swabi	SDO Shahbaz Garhi	Sherin Khan	0938-530329		0345-9669510	
Swabi	Swabi Division No.III					
Swabi	Executive Engineer	Engr. Sardar Zafar	0938-221392		0300-5689899	
Swabi	SDO Pehur	Engr. Imran Ullah	0938-221392		0333-9138412	
Swabi	SDO Mehra	Engr. Rooh Ul Amin			0343-4055000	
Abbottabad	Hazara Division					
Abbottabad	Executive Engineer	Shoukat Shah	0992-9310247		0300-5623304	
Abbottabad	SDO Abbottabad	Khurshid	0992-9310247		0900-9103545	
Abbottabad	SDO Haripur	Javid	0995-319323		0345-9552018	
Abbottabad	SDO Kohistan	Gul Shahzad			0333-5603920	
Chitral	Chitral Division					
Chitral	Executive Engineer	Waheed Ullah	0943-412641	0945-3412641	0334-9520373	
Chitral	Sub Division Officer	Ali Ahmad			0344-0709816	
Peshawar	Mechanical Irrigation Division					
Peshawar	Executive Engineer	Misal Khan	091-9212120	0943-412641	0312-8571195	
Peshawar	Sub Division Officer	Inayat Ullah Jan	091-9212120		0333-9102711	

9.11 CHIEF ENGINEER (SOUTH) IRRIGATION DEPARTMENT TELEPHONE DIRECTORY FLOOD SEASON, 2019

Distt:	Designation	Name			
			Office/Fax No.	Mobile	E-Mail
Peshawar	Chief Engineer (South)	Engr: Sahibzada Muhammad Shabir	9212116	03339331123	chiefoffice@yahoo.com
-do-	Superintending Engineer, South (H/Q)	Engr: Zahoor Muahammad	9212174	03009152983	
-do-	Technical Officer	Muhammad Naeem	9212122	03005712432	
-do-	Deputy Director (Planning)	Musleh ud Din	9112119	03348831172	
-do-	Deputy Director (Design)	Engr: Sohail	9212119	03339161619	
-do-	Canal Collector	Mr.Arshad Naseer	9210659	03339682555	
-do-	Administrative Officer	Mr. KhitabGul	9212118	03339732322	
Executive Engineer, Hydrology Irr: Divn: Peshawar					
Peshawar	Executive Engineer	Engr. Zahoor Muhammad	9212114	03009152983	
-do-	SDO Irr: Sub Divn: Peshawar	Mr. Jehanzeb Khan	9111907	03348800705	
Abbottabad	SDO Abbottabad	Mr. Muhammad Sadiq	0922-9310354	03459637939	
Bannu	SDO Bannu	Mr: Fathullah	0928-9271997	03339748548	
Project Director Remodeling of Warsak Canal System					
Peshawar	Project Director	Engr: ArbabZulfiqar	9222774	03339142040	
-do-	Project Manager	Engr:	9222775		
Peshawar	Project Director	Engr.MalikMazhar	5200703	03009155450	
Peshawar	Deputy Director	Engr. Hayatullah	5200710		
Peshawar	Deputy Director (NIC)	Engr.Akbar Khan	5200710		
Peshawar	Deputy Director (CIC)	Engr.Amir Muhammad	5200710		
Peshawar	Deputy Director (SIC)		5200710		
Peshawar	Assistant Engineer	Farman Ullah	5200710	03469277092	

Peshawar	Assistant Engineer	Tahir Said	5200710		
Peshawar	Assistant Engineer	Alamzeb		03429194990	
Peshawar	Assistant Engineer	Shaukat Badshah	5200710		
Peshawar	Assistant Engineer	Sherin Jan	5200710		
Peshawar	Assistant Engineer	Mr. Parwish	5200710	03335898591	
Peshawar	Assistant Engineer	Vacant	5200710		
Peshawar	Assistant Engineer	Vacant	5200710		
S.E Peshawar Irr: Circle	Peshawar.	Engr. Shahibzada Muhammad	091-9212115	03339331123	
		Shabir			
Peshawar Canal Divn: Peshawar					
Peshawar	Executive Engineer	Engr: AsadZaman Khan	9210102	03339101405	
-do-	SDO KRC	Engr: FaridGul	9210113	03319039940	
-do-	SDO Civil Canal	Engr: Mumriaz	9210102		
-do-	SDO Drainage	Engr:Saifullah	-	034490355864	
-do-	Deputy Collector	Mr. Arshad Ali	-	03018826283	
Warsak Canal Division Peshawar					
Peshawar	Executive Engineer	Engr. Sami UllahKundi	9212502	03038173125	
-do-	SDO	Mr. Shahbaz khan	9212502	03469777505	
-do-	SDO	Engr. TaimourZahid	9212502	03059685529	
-do-	SDO	Eng:SabirHussain	9212502	03339276745	
Tube Well Irr: Divn: Peshawar					
Peshawar	Executive Engineer	Engr: SherZaman	9222731	03208889995	
-do-	SDO T/W SDivn: Pesh:	Engr:Imtiaz	9222731	03339154350	
-do-	SDO T/W Pabbi	Mr. Hazrat Hassan	-	03149014952	

Xen Charsadda Irr Divn:					
Charsadda	XEN	Engr. Batoor Zaman	6514641	03008591803	charsaddairr@yahoo.com
-do-	SDO Charsadda	Engr. Amanullah		03154681435	
-do-	SDO Tangi	Muhammad Iqbal	6181144	03339130739	
-do-	SDO Zaim	Ahmad Amin		03131313276	
SE Bannu Irr: Circle Bannu					
Bannu	SE Bannu	Engr: Sheikh Jalil	0928-9270061	03339962522	sebicbannu@gmail.com
-do-	XEN: Marwat Canal	Engr: Khushal	0928-9270063	03459240065	
-do-	SDO Civil Canal	Engr. Zia ur Rehman	0928-9270063		
-do-	SDO Sarai Nourang	Engr:	0928-9270063	03455044165	
Bannu	XEN: Bannu Canal	Engr: Aurangzeb	0928-9270056	03339615173	
-do-	SDO Head Work	Engr. Shoukat Badshah	0928-9270056	03469322058	
-do-	SDO Janikhel	Mr. Nora Jan	0928-9270056	03348805591	
-do-	SDO Tajori	Muhammad Ismail	0928-9270056	03455044165	
Kohat	XEN: Kohat	Engr: Abdul Sattar	0922-9260173	03330564039	kohatirrigation@gmail.com
-do-	SDO Tanda Dam	Engr. Mustafa Ali	0922-9260173	03339310931	
-do-	SDO Project	Mr. Riaz Ahmed	0922-9260173	03065669504	
-do-	SDO Irr:S/Divn:	Mr. Shahbaz Khan	0922-9260173	03469777505	
-do-	SDO Karak S/Divn"	Mr. Khurshid	0922-9260173	03322472644	
SE D.I.Khan Irr: Circle DIKhan					
DIKhan	SE DIKhan	Engr: : Farooq Ahmed	0966-9280238	03339962522	sedikcircle@gmail.com
Pharpur	XEN: Pharpur	Engr:	0966-9280127	03367761949	pharpurdivision@gmail.com
Pharpur	SDO	Jamshid Ahmed Raees	0966-9280127	03339971908	
Pharpur	SDO	Muhammad Tahir	0966-9280127	03329811986	
CRBC	XEN CRBC	Engr: Shaifullah	0966-9280237	03005792686	xencrbcirr@yahoo.com
CRBC	SDO	Hassan Zulqarnain Haider Shah	0966-9280237	03459870590	
CRBC	SDO	Hidayatullah	0966-9280237	03467991786	

D.I. Khan	XEN: Flood	Engr: Amir Muhammad	0966-740259	03469278118	xenflooddik@gmail.com
D.I. Khan	SDO	SaeedUllah	0966-740259	03459806595	
D.I. Khan	SDO	WajidKhan	0966-740259		
D.I. Khan	SDO	GhulamRasoolBarki	0966-740259	03459888802	
D.I. Khan	XEN: GomalZam	Engr: Tariq Ali	0966-9280336	03367761949	xengomalzamdik@gmail.com
D.I. Khan	SDO	Ashraf Khan	0966-9280336	03339091119	
D.I. Khan	SDO	Ghulam Rasool Barki	0966-9280336	03459888802	
D.I. Khan	SDO	Shahid Khan	0966-9280336	03018021941	

9.12 CONTACT DETAILS OF PKHA

Name of the Officer	Designation	Office Phone Number	Personal Cell Number
Engr: Ahmad Nabi Sultan	Managing Director	+92 91 92 10 557	+92 345 900 11 88
Engr: Munir Hussain	Director Construction	+92 91 92 13 272	+92 300 9110660
Engr:Ejaz Ahmad Khan	Director Maintenance	+92 91 92 10 963	+92 300 59 05 767
Engr: Tufail Ahmad	DD (Head Quarters)	+92 91 92 13 522	+92 313 99 00 053
Engr: Nauman Bashir	DD (Procurement)	+92 91 92 12 892	+92 347 6765468
Engr: Arsalan Zeb	DD (Center)	+92 91 92 10 444	+92 334 9018538
Engr: Ghulam Moin-ud-din	DD (South)	+92 91 92 11 469	+92 345 77 33 444
Engr: Muhammad Bilal Afzal	DD (East)	+92 992 382607	+92 333 50 35 527
Engr: Adnan Khan	DD (RMU)	+92 91 62 24 397	+92 344 28 04 388
Engr: Abdus Salam	DD (North)	+92 946 92 40 118	+92 332 3866600

9.13 ADMINISTRATIVE SECRETRIES OF PROVINCIAL DEPARTMENTS

RELIEF REHABILITATION AND SETTLEMENT DEPARTMENT	Name and Designation	Telephone	Mobile	Ext:	Mobile/ Whatsapp No.	Email
	Mr. Muhammad Abid Majeed, Secretary	9212058	-	222	0301-8822965	nawazpscm@yahoo.com
	Mr. Sher Nawab, PS to Secretary	9212058	0336-9112105	119		
	Mr. Muhammad Roshan Masood Additional Secretary	9213250	0333-9282828	139	0345-2666888	secretaryeducation@gmail.com

S.No.	Name and Designation	Telephone	Mobile	Ext:	Mobile/ Whatsapp No.	Email
1	Food Department.	Mr. Muhammad Akbar Khan	9225373	9225374- 9225378	0333-9179971	fooddirectoratpk@gmail.com
2	Health Department	Dr. Syed Farooq Jamil	9210342	9210419	0333-9116939	secretaryhealthkp@gmail.com
3	Higher Education, Archives And Libraries Department.	Mr. Manzoor Ahmad	9210337	9210368	0300-9596523	secyhed@yahoo.com
4	Home & Tribal Affairs Department nt.	Mr. Ikram Ullah Khan	9211121	9210201	0344-8333111	htanwfp@gmail.com
5	Information And Public Relations & Culture Department.	Mr. Mukhtiyar	9210365	9210387		
6	Irrigation And Power Department.	Mr. Dawood Khan	9210845	9210874	0333-9107765	irrigationpsh@gmail.com
7	Local Government, Election Rural Dev: Department	Mr. Zahir Shah	9211450	9210323	0300-8590591	secylgkp2013@gmail.com
8	Mineral Development Department	Mr. Asmat Ullah Khan	9223553	9223554	0313-9808355	
9	Planning And Development Department	Mr Atif Rehman	9210516	9211369	0346-5225566	secretary.kpkpnd@gmail.com
12	Population Welfare Department	Mr. Asghar Ali	9211535	9213466	0333-9400455	asghar48@gmail.com
10	Sports, Tourism and Museums Department	Mr. Kamran Rehman	9212086	9212535	0336-3363300	secretarytourismkp@gmail.com
11	Zakat, Usher and Social Welfare & Women	Mr. Idrees Marwat	9211931	9213238	0333-5558382	secretaryzuswd@gmail.com
12	C&W Department	Mr. Shahab Khattak	091-9210859	091-9223454	0300-9597067	cwd.gkp@gmail.com

9.14 TEACHING HOSPITALS IN THE PROVINCE

Designation	Name	Office	Residence
H:Director LRH	Dr.Khalid Mehsood	9211402,	0313/9311656
MI Direc: LRH	Dr.Mukhtiar Zaman	9211400,	0333/9135316
DMS(Admn)	Dr.Ghulam Subhani	9211430-40-Exchang:	0301/8900275
Director Finance	Mr.Tariq Ali Shah	-do-	0333/9110842
H:Director KTH	Dr.Farman Ali	9216832	0344/9256545
Medical Director	Dr.Nadeem Khawar	9216362, 9216340-48	0345/9043892
H:Director HMC	Dr.Shehzad Akbar	9217043	0345/9222202
Medical Director		9217188, 9217140-46	
H: Director ATH	Brig(R)M.Ajmal Khan	0992/382728	
Medical Director	Dr.Salim Afzal Khan	0992/380871	
H,Director MMC	Dr.Tariq Mehmood	0937/9230431	0333/9848483
M.Director MMC	Dr.Mukhtiar Ali	0937/9230015, 9230051 Exchange.	0344/4888833
HD,Qazi Hussain Ahmed Medical Complex Nowshera	Dr. Mohammad Ali	0923/9220330	03459233252
Medical Director	Prof.Dr.Jehangir Khan	0923/9220335	1-347/9118903 2-333/9110651
MS, BKMC	Dr. Abid Hussain	0938/222606	0333/9854488
H.D, MMM DIK	Dr.Karim Shah	0966/747067	0345/9836004
MS, MMM	Dr.Abdul Qadeer	0966/9280315	
CE, SGTH Swat	Dr.Taj Mohammad	0946/9240127	0313/9434200
MS, SGTH	Dr.Maqsood Ahmed	0946/9240126-28	0333/9658346
H.D, KGN Bannu	Col.Waheed Ullah	0928/5892704	0300/5905365
M.D, -do-	Dr.Mohd Iqbal	0928/633634	
Coord. NSKC Swat.		0946/730889-98	
MS		-do-	
Prof Noor Ali Aman	Dean KMC Peshawar	9222162	03339131322
Dr. Rehman	TRF		03339101320
Prof Hakeem Afridi	Forensic Medicine	9221392	03339131334

9.15 MEDICAL SUPERINTENDENTS

Designation	Name	Office	Residence/Mobile
MS Abbottabad	Dr.Rahim Khattak	0992/9310191	03018322099
MS Mansehra	Dr.Mohamad Javid Khan Tanoli	0997/920096	0300/5641455
MS Mental Hospital Dadar	Dr.Naeem Awan		
MS Batagram	Dr.Saifullah Khalid	0997/311518,310018	0345/9554932
MS Kohistan	Dr.	0998/407132	0306/5637712
MS Haripur	Dr.Zakim Khan Wazir	0995/611850	
MS Mardan	Dr.Abdul Latif	0937/9230145	0345/9271964
MS Swabi	Dr.Niaz Muhammad	0938/221267	03339194544
MS Nowshera	Dr.Mohd .Arshad	0923/9220023	0345/2767652
MS Charsadda	Dr.saeed ahmad	9220157	
	Dr. Jamal Akbar DMs		03339611020

MS DHQ Kohat	Dr.Rahim Khattak	0922/513250	0300-9157044
MS LMH Kohat	Dr.Gul -E-Rana	0922/510381	0300/5980065
MS Karak	Dr. Fakhre Alam	0927/211213-15	03339714033
M.S Hangu	Dr. Akbar Jan	0925/621508	0333/9988051
MS DHQ Bannu	Dr. Fayyaz Ud Din	0928/611312	03329066110
MS Women & Children Hospital.	Dr.Nekmat Ullah	0928/610212,610312 0928/9270005	0335/9749704
MS DHQ Lakki	Dr.Essa Khan	0969/538008	03059001715
MS City Hospital	Dr.Ghulam Ali	0969/512349, 510349	0343/9051652
MS D.I.Khan	Dr.Karim Shah Marwat	0966/9280201	0345/9836004
MS	Dr. Atta Ullah	0963/512534	
MS Swat	Dr.Jangir	0946/9240126-28	03469718033
MS Bunir	Dr.Farooq Shah	0939/510223	
MS Malakand	Dr.Waheed Gul	0932/410242	0340/5775690
MS Shangla	Dr.Ehsan Ullah	0996/850041	
MS Dir (Upper)	Dr.Sahibzada Imtiaz Ahmad	0944/881012, 881455	
MS Dir (Lower)	Dr.Anwar Zada	0945/9250099	
MS Chitral	Dr.Faizul Mulk	0943/412634	
MS Tank	Dr, Kher Muhammad Burki	03335445900 03003771600	

9.16 DISTRICT HEALTH OFFICERS IN KHYBER PAKHTUNKHWA

Designation	Name	Office	Residence/Mobile
DHO Abbottabad	Dr.Shah Faisal Khanzada	0992/9310192	03038035716
DHO Mansehra	Dr.Shehzad Ali Khan	0997/920169	03335174795
DHO Haripur	Dr.Mushtaq	0995/610997	03005627707
DHO Batagram	Dr.Mohammad Khan	0997/310507	
DHO Thorghar	Dr.Iftikhar Iqbal	0997/215215	
DHO Kohistan	Dr.Arshad Amir	0998/407132	
DHO Peshawar	Dr.Gul Mohammad	9225387	0345/9684549
DHO Nowshera	Dr.Gulman shah	0923/580759	03350951925
DY: DHO		0315-9880680	
DHO Charsadda	Dr. Naik Nawa z	9220158/ FAX 9220148	03339207237
Deputy DHO	Dr.Fazal Rabi		0300/5960787
DHO Mardan	Dr.Fazli Malik	0937/9230030	0300/5728456
DHO Swabi	Dr.Niaz Mohammad	0938/280008 / FAX 0938-300051	0321/9981001
DHO Kohat	Dr.Musharraf Khan	0922/9260364	
DHO Karak	Dr.Rasool Jan	0927/210837	0300/5972506
DHO Hangu	Dr.Zia Ur Rehman	0925/623034	0333/9174735
DHO Bannu	Dr.Mohd Daraz	0928/9270132	0333/9643283
DHO Lakki	Dr.Taus Khan	0969/510472	0333/9278873
DHO D.I.Khan	Dr.MS Miankhel	0966/9280199, 0966/9280206	0333/9973154

DHO Tank	Dr.Umer Shah	0963/510755	0346/7844575
DHO Swat	Dr.Ghulam Subhani	0946/9240139	0301/8900275
DHO Buner	Dr.Sher Mohammad	0939/510138	0334/8366563
DHO Shangla	Dr.Mohammad Riaz	0996/850653, 850824	03009399108
DHO Dir (Upper)	Dr.Iftikhar Ahmad	0944/881075, 880516	
DHO Dir (Lower)	Dr.SHAUKAT	0945/9250098 0945/9250176	0301/8093535
DHO Chitral	Dr.Israr Ullah	0943/412734, 412754	0305/9609474
DHO Malakand	Dr.Wakeel Mohd	0932/410399	

A vibrant blue sky with a bright sun rising behind a layer of white, fluffy clouds. Numerous rays of light emanate from the sun, creating a dramatic and uplifting scene. The word "MISCELLANEOUS" is centered in the middle of the image, flanked by two horizontal lines.

MISCELLANEOUS

Standard NFI Kit (Per Family)

S. No.	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. 1/3rd of affected population expected to live in camps)

Standard Food Package (Per Family)

S No	Name of Item	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	Item Description	Quantity	Size
1	Soap (Anti-bacterial)	30 Bars	115 gms each
2	Towel	2	115 x 69 cm
3	Laundry Soap	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

Item Name	Specification
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 & 1 ventilator on each side of wall, Iron poles & pillars of 18 gauge pipe with all accessories, Shipping Weight 75 KG approx., Packing (tent poles & Accessories in 1 bundle). ISO 9001 certified. The words, "PDMA Khyber Pakhtunkhwa" 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 Specification

S No	Items	Specification
1	Plastic Mat	8x10 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)

LIST OF TRAINED (EWS, EVACUATION, FIRST AID, SEARCH AND RESCUE COMMUNITIES):

Prior to emergency or monsoon, the below mentioned communities will be taken in loop for evacuation, providing First Aid and Search & Rescue in District Nowshera. The below mentioned communities are trained by IDEA, Care International under ECHO-DP/DRR Project in collaboration with PDMA-KP.

S #	Village Council	Union Council	Name	F. Name	Contact Number	Designation
1	Choki Mamrez	Choki Mamrez	Mehar Zaman	Gul Zaman	3005940903	Chairperson
2	Choki Mamrez	Choki Mamrez	Bukhat Jamal	Saad Ullah	3013033816	General Secretary (M)
3	Chand Bibi	Choki Mamrez	Hayan Ullah	Shahulazir	0333-9012937	Chairperson
4	Chand Bibi	Choki Mamrez	Faheem Ullah	Yar Muhammad	0332-9004232	General Secretary (M)
5	Kandi Taza Din	Choki Mamrez	Sher Ahmad	Abdul Jabbar	0308-8309909	Chairperson
6	Kandi Taza Din	Choki Mamrez	Shah Mehmood	Bostan Khan	0300-5854473	General Secretary (M)
7	Khush Makam	Choki Mamrez	Masid	M. Kamal	0301-8094305	Chairperson
8	Khush Makam	Choki Mamrez	M. Ayaz	Ghulam Mustafa	0320-5009524	General Secretary (M)
9	Camp Korona	Muhib Banda	Fiza Hussain	Ghulam Hussain	0302-4987233	Chairperson
10	Camp Korona	Muhib Banda	Malang Shah	Abdullah Shah	0302-2921886 0301-8825921	General Secretary (M)
11	Banda Sheikh Ismail	Muhib Banda	Arbab Ali Akbar	Arbab Noor Hussain	0313-7584000	Chairperson
12	Banda Sheikh Ismail	Muhib Banda	Zakir Ullah	Shakir Ullah	0300-9363561	General Secretary (M)
13	Muhib Banda	Muhib Banda	Imran Khan	Bakhtyar Ul Haq	0333-9037412	Chairperson
14	Muhib Banda	Muhib Banda	Wahid Zaman	Shams ur Rehman	0300-5919879	General Secretary (M)
15	Ghari Momin	Muhib Banda	Ahmad Khan	Abdul Razik	0302-5775556	Chairperson
16	Ghari Momin	Muhib Banda	Faheem	Siraj Muhammad	0345-9097181	General Secretary (M)
17	Aman Kot-1	Aman Kot	Ijaz Ahmad	Adul Ghaffar	0300-9355507	Chairperson
18	Aman Kot-1	Aman Kot	Wasim Zeb Khan	Farhad Ali	0334-9093046	General Secretary (M)
19	Aman Kot-2	Aman Kot	Fazal Nabi	Mohammad Akram	0321-9008190	Chairperson
20	Aman Kot-2	Aman Kot	Ibrar Hussain	Khalid Khan	0321-9749636	General Secretary (M)
21	Choki Drab	Aman Kot	Farhad Khan	Khalid Khan	0300-5850089	Chairperson
22	Choki Drab	Aman Kot	Khalid Shah	Rasool Shah	0334-5337128	General Secretary (M)
23	Dheri Mian Ishaq	Aman Kot	Bahadar Khan	Akbar Khan	0333-9197687	Chairperson
24	Dheri Mian Ishaq	Aman Kot	Arshad Ali	Moqadar Shah	0333-9129434	General Secretary (M)
25	Gujar Basti	Aman Garh	Gul Hassan	Mahmood Shah	0300-5777890	Chairperson
26	Gujar Basti	Aman Garh	Umar Hayat	Umara Khan	0342-9291608	General Secretary (M)
27	Zia ud Din Koroan	Aman Garh	Jan Afzal	Said Afzal	0302-8809408	Chairperson
28	Zia ud Din Koroan	Aman Garh	Fazal Karim	Khaista Gul	0343-9149021	General Secretary (M)
29	Khalil Abad	Aman Garh	Asghar Khan	Bahadar Khan	0345-9321936	Chairperson
30	Khalil Abad	Aman Garh	Imran Yousaf	Yousaf Khan	0346-2403361	General Secretary (M)

31	Sheikh Abdul Ghafor	Aman Garh	Arshid Khan	Sahar Gul	0307-8091408	Chairperson
32	Sheikh Abdul Ghafor	Aman Garh	Anwar Ali	Khan Kheil	0300-9365404	General Secretary (M)
33	Adam Abad	Aza Kheil Payan	Israim Khan	Ibrahim Khan	0310-9769238	Chairperson
34	Adam Abad	Aza Kheil Payan	Kifayat ullah	Zaka Ullah	0312-5161804	General Secretary (M)
35	Shah Baz Garh (Aman Kheil)	Aza Kheil Payan	Gul Bahadar	Sher Bahadar	0315-3946399	Chairperson
36	Shah Baz Garh (Aman Kheil)	Aza Kheil Payan	Safdar Iqbal	Haji Mozarib Shah	0345-9316377	General Secretary (M)
37	Tarkanan	Aza Kheil Payan	Mohammad Amir	Anwar Sher	0311-1928112	Chairperson
38	Tarkanan	Aza Kheil Payan	Abdullah	Shamshad Anwar	0310-9374269	General Secretary (M)
39	Tekadaran	Aza Kheil Payan	tahir	qamarzaman	0345-9131901	Chairperson
40	Tekadaran	Aza Kheil Payan	Shahid	Musanif shah	0333-3161040	General Secretary (M)
41	Muslim Abad (Ghareeb Abad)	Aza Kheil Bala	Tahir Iqbal	Askar Khan	3453018221	Chairperson
42	Muslim Abad (Ghareeb Abad)	Aza Kheil Bala	Gul Nawaz Khan	Lal Badasha	3068787987	General Secretary (M)
43	Daud Zai	Aza Kheil Bala	Shah Saud	Hassan Khan	3219013063	Chairperson
44	Daud Zai	Aza Kheil Bala	Ihsan Akbar	Meer Akbar	3439135604	General Secretary (M)
45	Ada	Aza Kheil Bala	Noor ul Azeem	mukaram khan	3002669898	Chairperson
46	Ada	Aza Kheil Bala	Abbas Khan	Dil faraz	3478486326	General Secretary (M)
47	Alu Kheil Miangan	Aza Kheil Bala	Mian Shafiq- ur-Rehman	Mian Habib-u- Rehman	3412977976	Chairperson
48	Alu Kheil Miangan	Aza Kheil Bala	Fazal Qayoom	Meher Qayoom	3025779664	General Secretary (M)

LIST OF VOLUNTEER CLUB MEMBERS OF CDPM, UNIVERSITY OF PESHAWAR

S.No	Name	Father Name	Programme	Batch	District	Contact
1	Abbas Alam	Haji Mir Alam	BS	3rd	Charsadda	0343-9530314
2	Danish Mujahid	Muhammad Zahid	BS	3rd	Peshawar	0313-9545545
3	Muddasar Iqbal	Javed Iqbal	BS	3rd	Kohat	0345-6083935
4	Muhammad Azaz Jan	Zahid Ullah Jan	BS	3rd	Karak	0307-5955452
5	Mohsin Ghaffar	Muhammad Ghaffar	BS	4th	Swat	0344-1966622
6	Muhammad Daood	Husul Maab	BS	4th	Swat	0346-4130020
7	Muhammad Fawad	Rehmat Ashraf	BS	4th	Chitral	0335-9819892
8	Muhammad Uzair	Imtiaz Khan	BS	4th	Peshawar	0307-8910358
9	Muhammad Asim	Noor Muhammad Khan	BS	4th	Bannu	0335-8726987
10	Khushal Khan	Gohar Ali	BS	4th	Charsadda	0305-9492045
11	Rashid Ali	Muhammad Ali	BS	4th	Mardan	0341-4441664
12	Nehal Khan	Khan Muhammad	BS	4th	Swabi	0348-9375125
13	Shafaat Khan	Jamdad Khan	BS	4th	Peshawar	0300-9029272
14	Zia-ur-Rehman	Amin-Ur-Rehman	BS	4th	Shangla	0344-8929894
15	Rabbani	Mewa Khan	BS	5th	Khyber	0336-9530016
16	Abdullah	Haji Badaam Gul	BS	5th	Peshawar	0300-5981770
17	Ihtisham Ali	Muhammad Ayaz	BS	5th	Peshawar	0336-9265665
18	Noman Alam	Abdul Hannan	BS	5th	Lakki Marwat	0345-9859098
19	Pervaiz Jalal	Jalal-Ud-Din	BS	5th	Gilgit	0343-5331764
20	Muhammad Salman	Muhammad Azam	BS	5th	Charsadda	0311-9002582
21	Mehran Khan	Jehan Karim	BS	5th	Shangla	0331-9899199
22	Hamza Mushtaq	Mushtaq Ahmed	BS	5th	Charsadda	0345-9085234
23	Shahzad Ali	Abdullah Jan	BS	5th	Khyber	0310-9623262
24	Muhammad Kamil Afridi	Azmat Khan	BS	6th	Khyber	0340-9176691
25	Jawad Azhar	Azhar Khan	MSc	5th	Peshawar	0332-9141019
26	Haq Nawaz Khan	Muhammad Amin	MSc	5th	Peshawar	0341-5252762
27	Usman Ahmed	Maqsood Ahmed	MSc	5th	Peshawar	0333-1782000
28	Arbab Khalid	Albab Altaf Ahmed	MSc	5th	Peshawar	0315-3820021
29	Fahad Zeb	Jehan Zeb	MSc	5th	Peshawar	0346-9080788
30	Mubashir Ahmad	Rehmat Azeem Khan	MSc	5th	Chitral	0345-9034675
31	Fakhruddin	Sahib Nadir	MSc	5th	Chitral	0323-5003178
32	Arshad Jehangir	Jehangir	MSc	5th	Chitral	0348-9236933
33	Amjid Nawaz	Usman Nawaz	MSc	5th	Chitral	0302-9449753
34	Nisar Ali	Nasir Khan	MSc	5th	Chitral	0324-0542165
35	Ahmad Yar	Farrukht Yar	MSc	5th	Peshawar	0333-9197476
36	Anees-Ur-Rehman	Abdul Ahad	BS	6th	Swabi	0342-1920838
37	Shabab Hussain	Riaz Hussain	BS	6th	Kurram	0301-5244769
38	Muhammad Muneeb - Ur-Rehman	Muhammad Tahir Iqbal	BS	6th	Swabi	0348-9800604
39	Muhammad Hasnain	Muhammad Siyar	BS	6th	Swabi	0341-9673388
40	Muhtasib Shah	Wilayat Shah	BS	6th	Peshawar	0343-9805104
41	Sana Ullah	Badi-Uz-Zaman	Bs	6th	Peshawar	0313-9392082
42	Irfan Ullah	Sultanzaib	BS	6th	Dir Lower	0307-8181903
43	Aftab Ahmed	Millat Khan	BS	6th	Khyber	0331-9898258