

MONSOON CONTINGENCY PLAN

2018

PROVINCIAL DISASTER MANAGEMENT AUTHORITY

TOWARDS DISASTER RESILIENT KHYBER PAKHTUNKHWA



MONSOON CONTINGENCY PLAN

2018



Provincial Disaster Management Authority
Government of Khyber Pakhtunkhwa

Developed By:

Provincial Disaster Management Authority, Khyber Pakhtunkhwa

Layout Designed and Printing By:

Imtiaz Printing Services

Funding support by:

Swiss Agency for Development and Cooperation SDC

Publishing Date and location:

July 2018, Peshawar, Pakistan.

Copyright 2018 Government of Khyber Pakhtunkhwa

Material in the Publication can be freely quoted or printed with due acknowledgment to the concerned Organization



TABLE OF CONTENTS

LIST OF ACRONYMS	III
EXECUTIVE SUMMARY	IV
CHAPTER-1	1
1.1 OVERVIEW	2
1.2 GENERAL AND FLOOD PROFILE OF KHYBER PAKHTUNKHWA	3
1.3 LESSONS LEARNT FROM PREVIOUS FLOODS	9
CHAPTER-2	11
2.1 PAKISTAN METEOROLOGICAL DEPARTMENT'S WEATHER OUTLOOK	12
2.2 CLIMATE CHANGE IMPACTS ON KHYBER PAKHTUNKHWA	12
2.3 SCENARIOS AND CORRESPONDING CASELOADS	15
2.4 DISTRICT WISE RELIEF CASELOAD	24
2.5 FUNDS NEEDED FOR IN-CAMP/EVACUATION CENTERS	25
2.6 PLANNING ASSUMPTIONS	26
CHAPTER-3	29
3.1 COORDINATION MECHANISM FOR MONSOON 2018	30
3.2 CONSULTATIVE MEETINGS	30
3.3 DISTRICT LEVEL MONSOON CONTINGENCY PLANNING	32
3.4 LOGISTIC ARRANGEMENTS/ PROCUREMENT OF NFIS	32
3.5 PROVISION OF BOATS AND RESCUE EQUIPMENT TO PAK-ARMY	33
3.6 PROVISION OF RESCUE EQUIPMENT TO CIVIL DEFENSE	33
3.7 RESOURCE MAPPING OF DISTRICTS	35
3.8 RESCUE ITEMS' STOCK HELD BY THE DISTRICTS	36
3.9 RESCUE ITEMS' NEEDS & GAPS OF DISTRICTS	38
3.10 SUMMARY OF NFI's STOCK POSITION HELD BY DISTRICTS	40
3.11 SUMMARY OF NFI's NEEDS & GAPS IDENTIFIED BY DISTRICTS	42
3.12 LIST OF NFI STOCK AVAILABLE WITH PDMA	44
3.13 OVERVIEW OF NFI's STOCK POSITION AND GAP ANALYSIS	45
CHAPTER-4	46
4.1 PROVINCIAL DISASTER MANAGEMENT AUTHORITY-PDMA	47
4.2 DISTRICT ADMINISTRATIONS:	48
4.3 IRRIGATION DEPARTMENT	48
4.4 COMMUNICATION AND WORKS DEPARTMENT	49
4.5 HEALTH DEPARTMENT	49
4.6 FOOD DEPARTMENT	49
4.7 INFORMATION DEPARTMENT	49

4.8 LOCAL GOVERNMENT & RURAL DEVELOPMENT DEPARTMENT	50
4.9 MUNICIPALITIES	50
4.10 PUBLIC HEALTH ENGINEERING DEPARTMENT	50
4.11 EDUCATION (E&SE) DEPARTMENT	51
4.12 AGRICULTURE DEPARTMENT	51
4.13 HOME AND TRIBAL AFFAIRS DEPARTMENT	51
4.14 CIVIL DEFENSE	52
4.15 EMERGENCY RESCUE SERVICE (RESCUE 1122)	52
4.16 PROVINCIAL POLICE	52
4.17 PAKISTAN METEOROLOGICAL DEPARTMENT (REGIONAL OFFICE PESHAWAR)	52
4.18 FORESTRY, WILDLIFE AND ENVIRONMENT DEPARTMENT	52
4.19 SOCIAL WELFARE DEPARTMENT	53
4.20 HUMANITARIAN COMMUNITY- UN AGENCIES, PAKISTAN RED CRESCENT SOCIETY PRCS, INGOs & NGOs	53
4.21 PAKISTAN ARMY (HQ 11 CORPS)	53
 ANNEXURES	 54
ANNEXURE 1: CONTACT LIST OF NDMA AND OTHER PDMA _s	55
ANNEXURE 2: COMMISSIONERS CONTACT LIST	55
ANNEXURE 3: DEPUTY COMMISSIONERS CONTACT LIST	56
ANNEXURE 4: CONTACT LIST OF DDMOs	57
ANNEXURE 5: FLOOD EMERGENCY DIRECTORY OF IRRIGATION DEPARTMENT	58
ANNEXURE 6: DISTRICT EMERGENCY CONTROL ROOM CONTACT LIST	60
ANNEXURE 7: PROVINCIAL EMERGENCY OPERATION CENTER (PEOC) IN PDMA	60
ANNEXURE 8: PDMA CONTACT LIST	61
ANNEXURE 9: HEALTH DEPARTMENT CONTACT LIST	63
ANNEXURE 10: DISTRIBUTION OF NECESSARY NFIs	67
ANNEXURE 11: APPROVED NFI AND FI STANDARDS FOOD ITEMS	67
ANNEXURE 12: STANDARD HYGIENIC KIT/DIGNITY KIT FOR WOMEN	68
ANNEXURE 13: SHELTER SPECIFICATION	68
ANNEXURE 14: NON-FOOD ITEMS SPECIFICATION	68
ANNEXURE 15: LIST OF TRAINED (EWS, EVACUATION, FIRST AID, SEARCH AND RESCUE COMMUNITIES):	68
ANNEXURE 16: MACHINERY AND RESCUE ITEM'S STOCK AVAILABLE WITH DISTRICT	69
ANNEXURE 17: LIST OF VOLUNTEER CLUB MEMBERS OF CDPM, UNIVERSITY OF PESHAWAR	72

LIST OF ACRONYMS

AAD	Additional Assistant Commissioner
AC	Assistant Commissioner
ADB	Asian Development Bank
CDPM	Centre for Disaster Preparedness and Mitigation, University of Peshawar
CP	Contingency Plan
DC	Deputy Commissioner
DDMO	District Disaster Management Officer
DDMU	District Disaster Management Unit
DNA	Damage Need Assessment
GLOF	Glacial Lake Outburst Flood
HH	House Hold
HRF	Humanitarian Response Facility
MC	Municipal Corporation
MO	Municipal Officer
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

Khyber Pakhtunkhwa is prone to natural hazards including floods, earthquake, landslides and cyclones resulting in widespread damage from time to time. Due to its specific geography and topography, Khyber Pakhtunkhwa has increased vulnerability to floods. Apart from natural disasters, the province is also faced with human induced disasters, with increasing number of incidents of terrorism in the last two decades. On the other hand climate change has increased the vulnerability to disasters and has induced erratic weather patterns. Consequently, the entire region is experiencing unpredictable rainfall, increase in temperature and variation in seasons. As a result Khyber Pakhtunkhwa has faced severe damages in the last five years.

In 2010, floods wreaked havoc in the province. According to the Federal Flood Commission the combined flow of river Swat and Kabul touched a new historical high of 400,000 cusecs as against the previous figure of 250,000 cusecs in 1929. The vulnerability of the province as well as its exposure to the hazards can easily be assessed from the study of disasters in last two years, including heavy rain showers, semi cyclones, Glacial Lake Outburst Floods (GLOF) and earthquakes. To cope with, prepare and minimize the risk of floods, Khyber Pakhtunkhwa government is making a series of efforts. Contingency planning for the upcoming monsoon season is one of the major steps. This plan has been prepared after a series of consultative meetings with the District Administration, provincial and federal line agencies working in the province, Pak Army Headquarters Engineers 11 Corps Peshawar and humanitarian organizations including United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA), Pakistan Red Crescent Society, DRR Forum and National Humanitarian Network.

Contingency Plan 2018 has been designed while keeping in mind three different scenarios i.e. high, medium and low flood impact scenario. 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 districts and relevant stakeholders is an integral part of this document. Based on the resource mapping PDMA is striving to provide the required resources identified by the districts and other relief agencies & departments well before the start of Monsoon 2018.



CHAPTER-1

MONSOON CONTENGANCY PLAN 2018



1.1 OVERVIEW

To handle flood related disasters induced by environmental change and vulnerabilities to monsoon (Both Flash and Riverine) in the province of Khyber Pakhtunkhwa, an integrated scientific approach is imperative. Provincial Disaster Management Authority (PDMA), Khyber Pakhtunkhwa is channelizing the available resources and employing techniques, in collaboration with all stakeholders to mitigate the risks and enhance preparedness for floods to minimize the losses.

The Provincial Government is investing in the flood management systems, however, lack of sufficient water storage facilities, lack of effective regulations and poor early warning systems are the major impediments in development of a vibrant and effective flood risk management system.

Presently, the available early warning/forecasting of floods is based on telemetry, 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. As far as flash floods in the mountainous regions are concerned, there is no early warning system.

There has been very little investment in water storage that can otherwise reduce the vulnerability of floods. This limited storage capacity has further been undermined by massive silting that naturally reduces flood impact mitigation capacities of these storage facilities. There are only two notable reservoirs in Khyber Pakhtunkhwa, Warsak Dam and Tarbela Dam. The former has lost its storage capacity long ago, while the live storage capacity of the later has gone down to 6.77 MAF from its original capacity of 9.68 MAF. 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.

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

Heavy snow on the northern mountains of the province starts melting with rising temperatures during summer thus causing rise in the water level of River Kabul and Swat. 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 and the occasional cloud burst make the situation worse.

Faced with such critical possible scenarios, adopting an integrated approach for monsoon contingency planning is thus considered as top priority by PDMA Khyber, Pakhtunkhwa.

1.2 GENERAL AND FLOOD PROFILE OF KHYBER PAKHTUNKHWA

The Province of Khyber Pakhtunkhwa is the smallest province of Pakistan in terms of geographic area. It constitutes 9.4% of the country's total area and is spread over 74,521 square kilometers. It laps both banks of the river Indus and stretches from the Himalayas in the north to deserts of DI Khan in the south, where it is bordered by the Baluchistan and Punjab provinces. It has a total of 26 districts which are further divided into 69 Tehsils and 2,825 VCs and 504 NCs. It has a total population of 30,523,371 (2017 census). There is a total glacial and snow cover over 4,122 sq.km area.



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. 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.



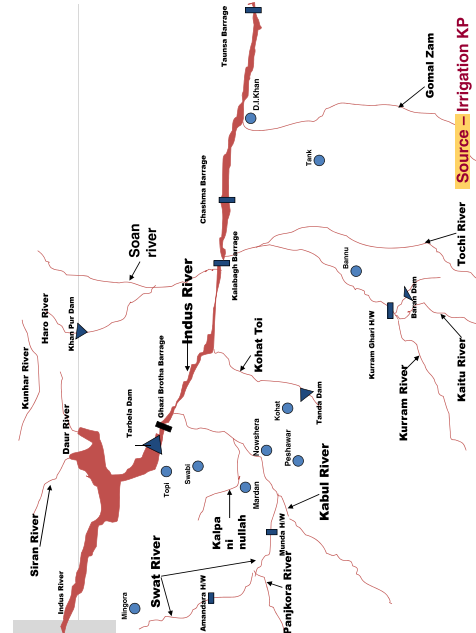
Floods in Khyber Pakhtunkhwa are generally caused by heavy concentrated rainfall in the catchments of Rivers Indus, Swat and Kabul during the monsoon season, which is augmented by snowmelt. Major floods occur in late summer (July to September) when the South Asian region is subjected to heavy monsoonal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

Flash floods have continuously been affecting the province for the last few years during Monsoon season. Its likelihood has increased in the recent years due to changing weather patterns, with accentuating humanitarian cost due to absence of early warning system and sudden onset. Moreover, most regions vulnerable to flash flooding lie outside the coverage of the early warning system 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 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 and snow melt, Khyber Pakhtunkhwa is vulnerable to both sudden and expected hydro-meteorological disasters which require an integrated and quick response

MAJOR RIVERS/NULLAHS IN KHYBER PAKHTUNKHWA	
1. Kabul River	7. Kohat Toi
a. Adezai River	8. Kurram River
b. Naguman River	9. Kaitu River
c. Shah Alam River	10. Tochi River
d. Bara River	11. Indus River (Right Bank)
e. Budni Nullah	12. Gomal Zam
2. Swat River	13. Chowdhwani Zam
3. Jindi River	14. Sheikh Haider Zam
4. Khyali River	15. Kunhar River
5. Kalpani Nullah	16. Siran River
6. Panjkora River	



Summary of Glacial Lakes Inventory in KP

District (Basin)	Total No of Glaciers	Total No of Glacial Lakes	Potentially Dangerous Lakes
Chitral	36	16	07
Swat	20	14	06
Mansehra	21	06	04
Kohistan Upper	18	04	01
Total	95	40	18

TIME LAG OF RIVERS IN KHYBER PAKHTUNKHWA
(SOURCE: IRRIGATION DEPARTMENT)

S/N	LOCATION	DISTANCE(KM)	TIME LAG
1	Swat River from Khawaza Khela to Amandara	65	12 Hours
2	Swat River from Amandara to Munda	55	09 Hours
3	Swat River from Munda to Charsadda Road	40	6.5 Hours
4	Kabul River from Charsadda Road to Nowshera	35	6 Hours
5	Kabul River from Warsak to Nowshera	60	10 Hours

Tabulated expression of general hazard profile of Khyber Pakhtunkhwa is as under:

FLOOD VULNERABILITY MATRIX OF KHYBER PAKHTUNKHWA
(SOURCE: NATIONAL MONSOON CONTINGENCY RESPONSE DIRECTIVES 2018)

S/N	DISTRICT	FLOOD HAZARD	RIVERINE FLOOD	FLASH FLOOD	URBAN FLOOD	LAND SLIDE	AVALANCHE	GLOF
1	Charsadda	Very High	Yes	No	No	No	No	No
2	D. I Khan	Very High	Yes	Yes	Yes	No	No	No
3	Peshawar	Very High	Yes	No	Yes	No	No	No
4	Shangla	Very High	Yes	Yes	No	Yes	yes	Yes
5	Kohistan Upper	High	Yes	Yes	No	Yes	Yes	Yes
6	Kohistan Lower	High	Yes	Yes	No	Yes	Yes	Yes
7	Nowshera	High	Yes	Yes	Yes	No	No	No
8	Swat	High	Yes	Yes	No	Yes	Yes	Yes
9	Tank	High	Yes	Yes	No	No	No	No
10	Dir Upper	High	Yes	Yes	No	Yes	Yes	Yes
11	Buner	Medium	No	Yes	No	Yes	Yes	No
12	Chitral	Medium	Yes	Yes	No	Yes	Yes	Yes
13	Dir Lower	Medium	Yes	Yes	No	Yes	Yes	No
14	Malakand	Medium	Yes	Yes	No	Yes	No	No
15	Mansehra	Medium	Yes	Yes	No	Yes	No	No
16	Torghar	Medium	Yes	Yes	No	Yes	Yes	No
17	Mardan	Medium	Yes	No	Yes	No	No	No
18	Swabi	Medium	Yes	Yes	No	Yes	No	No
19	Abbottabad	Low	No	Yes	No	Yes	No	No
20	Bannu	Low	Yes	No	No	No	No	No
21	Battagram	Low	No	Yes	No	Yes	No	Yes
22	Hangu	Low	No	Yes	No	No	No	No
23	Haripur	Low	No	No	No	Yes	No	No
24	Karak	Low	No	Yes	No	No	No	No
25	Kohat	Low	No	No	Yes	Yes	No	No
26	Lakki marwat	Low	Yes	No	No	No	No	No

Monsoon Hazard Specific Vulnerable Districts

S #	Flash Floods/GLOFs	Riverine Floods/Urban Flooding	Heavy Rain Fall/ Hail Storm/Windstorms	Land sliding
1	Chitral	Nowshera	Mansehra	Abbotabad, Mansehra
2	Swat	Charsadda	Abbotabad	Haripur
3	Kohistan (Upper/Lower)	Peshawar	Buner	Chitral Kohistan (L+U)
4	Shangla	DI Khan	Kohat	Shangla
5	Battagram	Swat	Karak	Dir lower
6	Malakand		Bannu	Swat
7	Mansehra		Lakki Marwat	Battagram
8	Buner		DI Khan	Buner

Vulnerability Risk Ranking Matrix (05 variables)

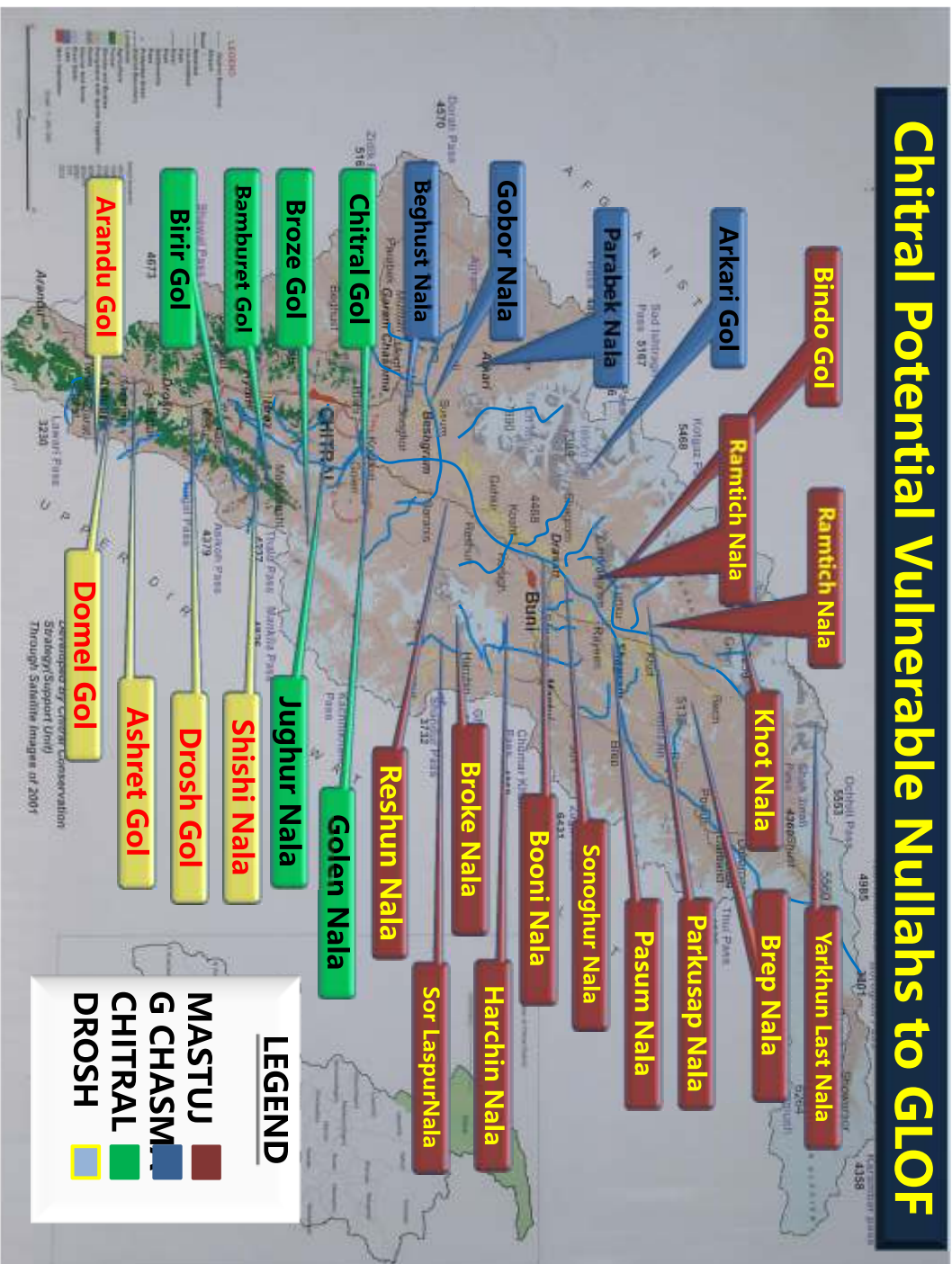
FLOOD VULNERABILITY CATEGORIZATION OF THE DISTRICTS

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 2018 as under:

MONSOON 2010			MONSOON 2018		
MOST VULNERABLE	MODERATE VULNERABLE	LOW VULNERABLE	MOST VULNERABLE	MODERATE VULNERABLE	LOW VULNERABLE
Charsada	Bannu	Buner	Peshawar	Shangla	Bannu
D.I.Khan	Battagram	Hangu	Charsadda	Dir Upper	Lakki Marwat
Dir Lower	Chitral	Haripur	Nowshera	Dir Lower	Karak
Dir Upper	Karak	Mardan	Swat	Kohistan (Upper, Lower and Palai)	Battagram
Nowshera	Kohat	Abbottabad	Chitral	Haripur	Torghar
Peshawar	Lakki	Torghar		Tank	Abbottabad
Shangla	Malakand			D.I Khan	Mardan
Swat	Mansehra			Mansehra	Hangu
Tank	Swabi			Swabi	Buner
	Kohistan				Kohat

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	NO. OF UCs	AT RISK POPULATION	Vulnerable population at risk index %
1	Swat	66	1,015,198	15.6743
2	Peshawar	24	897,232	13.8529
3	Shangla	28	726,203	11.2123
4	Charsadda	24	527,434	8.1434
5	Nowshera	28	463,101	6.9568
6	Swabi	19	394,000	6.0832
7	Mansehra	18	306,321	4.7295
8	Bannu	21	305,037	4.7097
9	Chitral	5	277,321	4.2817
10	Kohat	11	227,301	3.5094
11	Kohistan (Upper, Lower and Palai)	19	225,765	3.4857
12	Malakand	5	192,000	2.9644
13	Haripur	8	171,946	2.6548
14	Tank	11	169,218	2.6127
15	Dir Upper	5	154,569	2.3865
16	Dir Lower	7	145,204	2.2419
17	Buner	3	104,000	1.6057
18	Hangu	6	906,48	1.3996
19	D.I Khan	12	627,15	0.9683
20	Lakki Marwat	10	176,00	0.2717
21	Battagram	13	163,00	0.2517
22	Abbottabad	2	250	0.0039
23	Karak	17	NA	0.0000
24	Mardan	NA	NA	0.0000
25	Torghar	6	NA	0.0000
Total		344	6,026,262	



1.3 LESSONS LEARNT FROM PREVIOUS FLOODS

1.3.1 INADEQUATE FLOOD PROTECTION ARRANGEMENTS

Except for protection arrangements to protect D.I Khan city along Indus, the protective arrangements across KP and FATA are not adequate in terms of extending safeguards to vulnerable populations against the flood hazard. The table below shows the limited existing flood protection arrangements in the province.

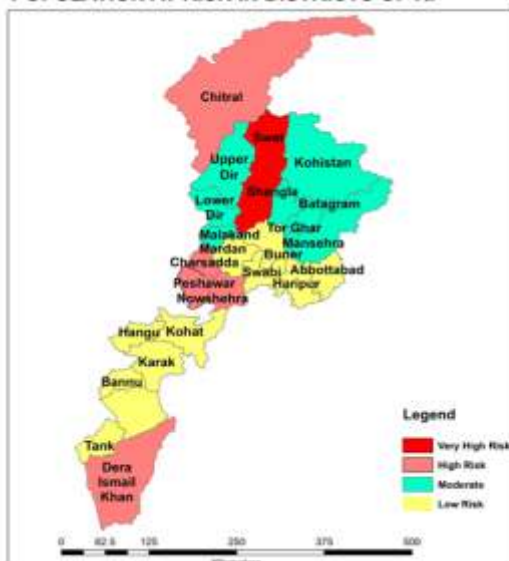
FLOOD PROTECTION ARRANGEMENTS

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.

Joint Reconnaissance of Flood Protection Structure with the help of Pak Army

POPULATION AT RISK IN DISTRICTS OF KP



AREAS WITH POTENTIALLY CUT-OFF VALLEYS (Access Vulnerabilities)



**Cut-off / Isolated Population - 150,000
People - 25,000 HHs**



1.3.2 INADEQUATE FLOOD EARLY WARNING ARRANGEMENTS

Owing to non-existence of floods early warning radars, the existing arrangements rely on flood gauging through telemetry system of WAPDA and some basic system of gauges deployed by the Irrigation Department Khyber Pakhtunkhwa. Limited capacity of forecasting through the existing arrangements provided less time to prepare for floods. As a consequence of Floods 2010, Irrigation Department has rehabilitated 105 numbers of old flow gauges and 16 new rain gauges. Besides, installation of 80 new flow gauges has also been completed during FY 2011-2012.

1.3.3 ENCROACHMENTS

Encroachment on river banks was one of the major causes of losses (both life and property) during floods of 2010 & afterwards. Intrusion of population along Panjkora, Swat and Kabul rivers, partly along Indus and the flood prone hill torrents in the North were mainly responsible for the loss of life and property. Similarly, blocked and heavily encroached drainage systems of settled areas especially in Peshawar valley played major role in inundation, resultant damages and destruction.

1.3.4 LACK OF PREPAREDNESS

It was noted that there was lack of monsoon preparedness and coordination mechanism at the district and provincial level. The said factor along with inadequate resources undermined 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 affectees to large extent, however, extraordinary efforts were required.

1.3.5 NON OBSERVANCE OF EARLY WARNINGS BY GENERAL PUBLIC

An important aspect witnessed specially in Charsadda, Nowshera and Peshawar was the lack of seriousness to observe the flood early warning(s) by general public. People had tendency to stay in their home and resisted to evacuate till flood water completely overwhelmed and marooned them. Consequently, scarce rescue resources (boats and helicopters) were over burdened by salvage missions.

1.3.6 INSUFFICIENT WATER STORAGE AND REGULATION CAPACITY

The water storage facilities in Khyber Pakhtunkhwa have been reduced drastically 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



CHAPTER-2

WEATHER FORECAST AND
CORRESPONDING FLOOD IMPACT
SCENARIOS



2.1 PAKISTAN METEOROLOGICAL DEPARTMENT'S WEATHER OUTLOOK FOR MONSOON 2018 (JULY – SEPTEMBER 2018)

Pakistan Meteorological Department (PMD) is an autonomous and independent institution tasked with providing weather forecast and public warning, for the purposes of protection, safety, and general information. Apart from meteorology, it is also involved in monitoring as well as investigating weather phenomena, events, hydrology, and research in climate changes, and studies on aeronautical engineering.

PDMA coordinates with PMD regional office for the weather forecast and general weather advisory. Normally PDMA contacts PMD regional office twice a day at 6 am and 6 pm, for weather updates. The same is disseminated among the stakeholders through SMS/Whatsapp alert for information and necessary action.

As per weather advisory of PMD, “keeping in view the global, regional and local metrological indicators, the seasonal outlook for Pakistan summer monsoon 2018 has been prepared. It is evident from the model output that monsoon is expected to be more active during the first half than the second one. However, the most likely salient features are stated below:

- In northern Pakistan, rainfall is expected to remain “normal to slightly above normal of long term average” during first half of the season, and below normal during second half.
- In southern Pakistan, rainfall is expected to remain “near normal of long term averages” during first half of the season, and largely below normal during the second half.
- The prevailing temperatures trend in Pakistan indicates high probability of few “Extreme rainfall events” in Punjab, and “GLOF events” in Gilgit-Baltistan/Chitral regions during monsoon season.

In light of “Outlook of Summer Monsoon 2018” and already prevailing water shortage in the country, the water managers should take measures for water storages accordingly.

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.

(Source: Pak Met Dept)

2.2 CLIMATE CHANGE IMPACTS ON KHYBER PAKHTUNKHWA

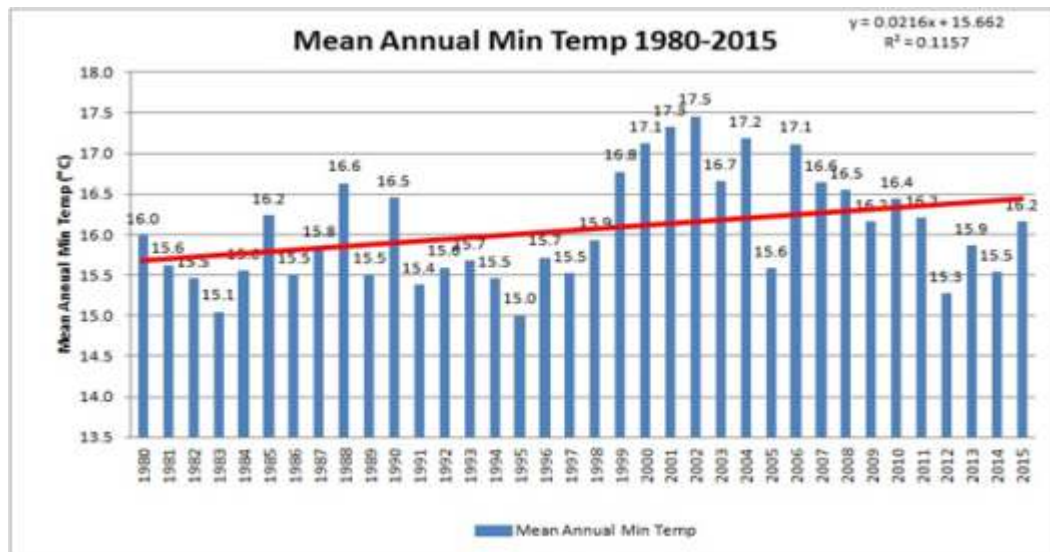
Khyber Pakhtunkhwa (KP) is a topographically diverse province of Pakistan situated in the northwest region of the Pakistan. The province (KP) has extreme weather conditions due to its climatic variations; the northern areas are cold in winter and mild during summer, while, the temperature becomes warmer in the southern and Peshawar valley during summer season. Heat waves are expected due to below normal rainfall, furthermore, it also reduces the availability of fresh water and lesser inflows of water into the rivers and dams.

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

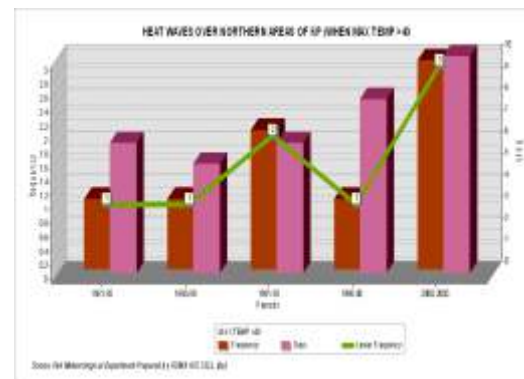
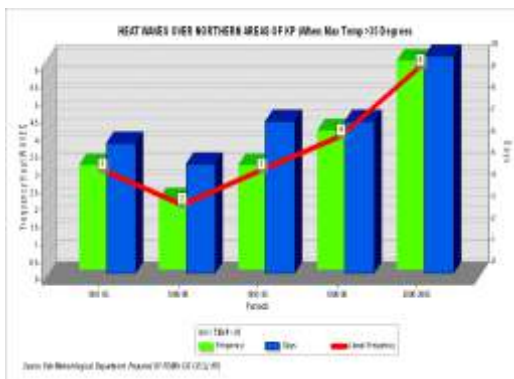
- 1901-2000 0.6 °C
- 1960-2007 0.24 °C

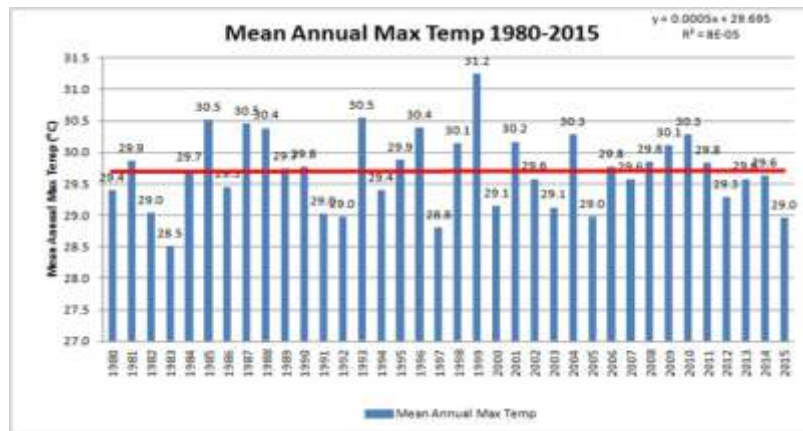
(The rate of increase is higher than the global average slope of 0.17 °C)

The temperature of KP has drastically changed due to climate change, as 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.



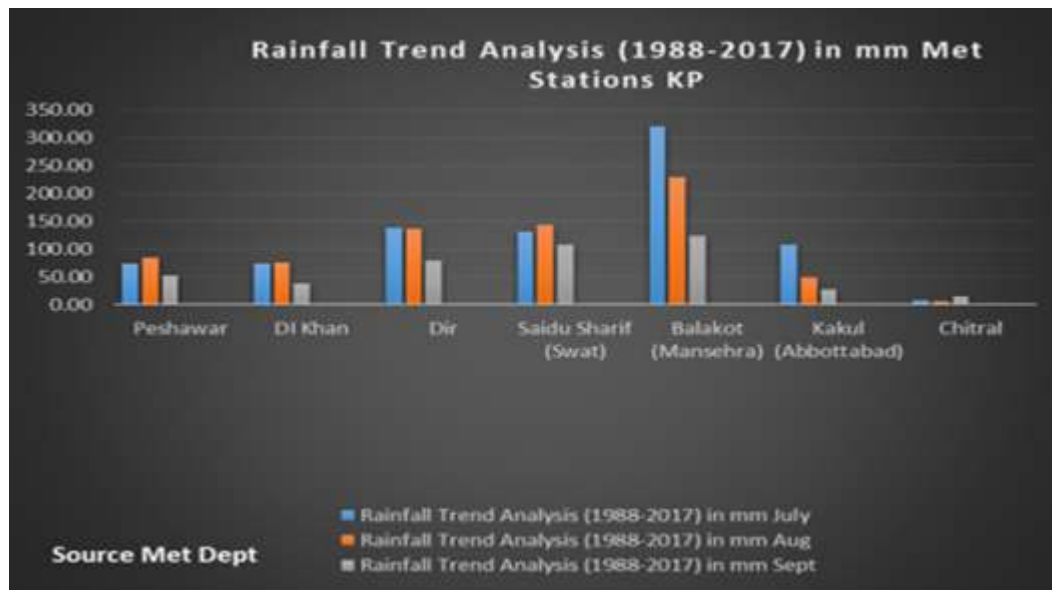
The rising temperatures in the northern part have increased the chances of GLOF (Glacial Lake Outburst Flood). As a result severe to minor GLOF incidents have occurred in District Chitral, thereby inflicting damages to human lives and infrastructure in the district. The Upper areas become cutoff and create challenge for relief activities in the affected areas. Valleys nearby glacial lakes in the Hazara and Malakand region 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 and therefore, there is need of adaptation like construction of small dams and reservoirs, to store water before it escapes to the Indian Ocean. It has been observed that irregularity in the precipitation and seasonal shift and weather pattern, 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 enormous 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 SCENARIOS AND CORRESPONDING CASELOADS

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

Flood – 2010 Historical Comparison

Rainfall

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

The Worst Case Scenario - 2010 Floods with similar caseload

Rivers	Max Flow Recorded before 2010	2010 Floods Levels (Assumed High Impact Flow Level for 2018)
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

- 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

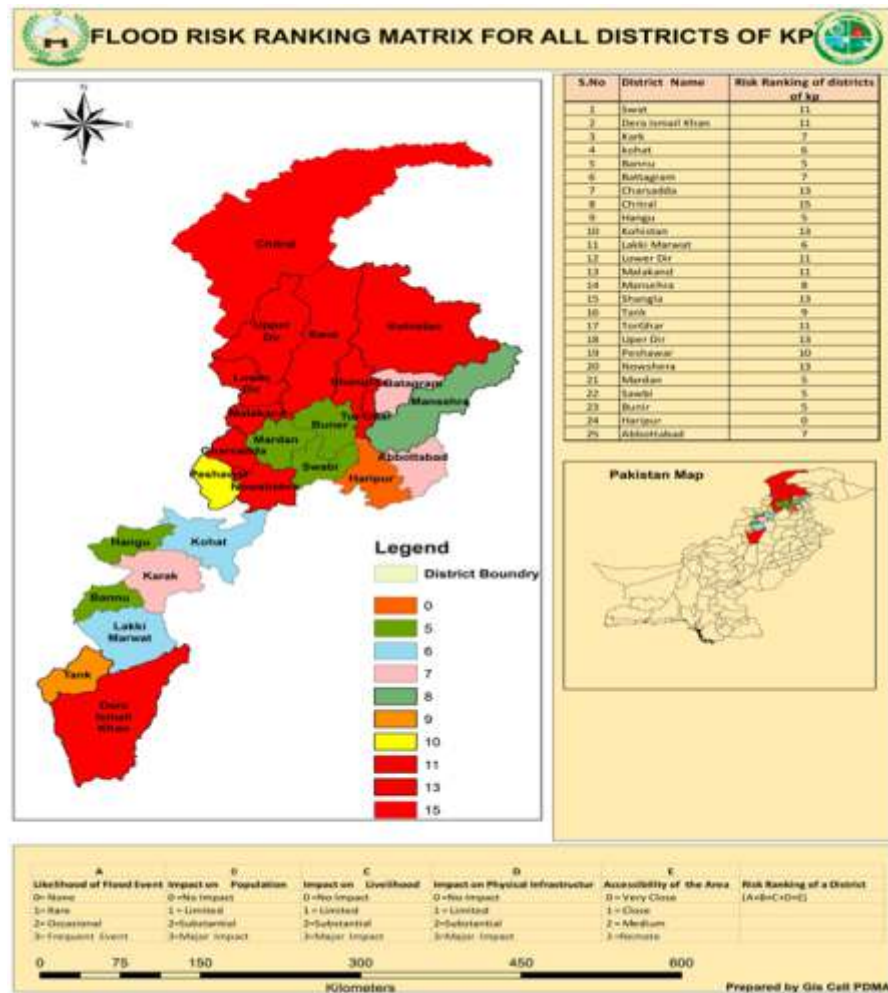
There are two main dimensions of flood impacts on the community in general i.e. physical and social. Casualties and property damages are the physical impacts of flood which can be measured, noticed and reported immediately to the response authorities. However, social impacts, which include psychosocial, 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.

Partial input in this scenario planning section is taken from the contingency plan of 2016. However, the corresponding caseloads to the scenario are the result of extensive consultation with district governments and mathematical calculation of the expected population.

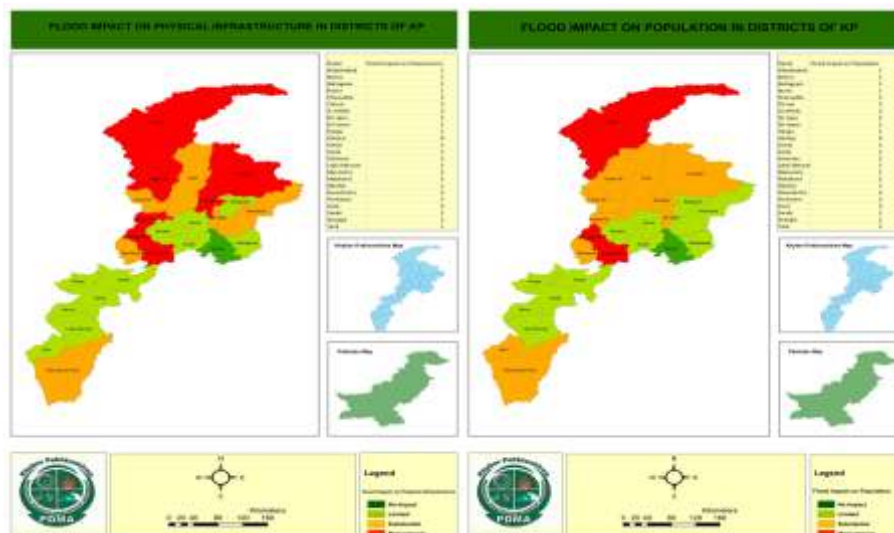
**MATRIX RANKING EXERCISES FOR DISTRICT WISE RESOURCE
ALLOCATION FOR MONSOON SEASON 2018**

Name of District	A Likelihood of flood event 0- None 1- Rare 2- Occasional 3-Frequent event	B Impact on Population 0- No Impact 1- Limited 2- Substantial 3- Major Impact	C Impact on Livelihood 0- No Impact 1- Limited 2- Substantial 3-Major Impact	D Impact on Physical Infrastructure 0- No Impact 1- Limited 2- Substantial 3=Major Impact	E Accessibility of the Area 0=Very Close 1 = Close 2 = Medium 3 = Remote	Risk Ranking of a district (A+B+C+D+E)
Abbottabad	2	1	1	1	2	7
Bannu	1	1	1	1	1	5
Battagram	1	1	1	1	3	7
Buner	1	1	1	1	1	5
Charsadda	3	3	3	3	1	13
Chitral	3	3	3	3	3	15
D.I Khan	3	2	2	2	2	11
Hangu	1	1	1	1	1	5
Haripur	0	0	0	0	0	0
Karak	2	1	1	1	2	7
Kohat	2	1	1	1	1	6
Kohistan	3	2	2	3	3	13
Lakki Marwat	2	1	1	1	1	6
Dir Lower	3	2	2	2	2	11
Malakand	2	2	2	3	2	11
Mansehra	2	1	1	2	2	8
Mardan	1	1	1	1	1	5
Nowshera	3	3	3	3	1	13
Peshawar	3	2	2	2	1	10
Shangla	3	2	2	3	3	13
Swabi	1	1	1	1	1	5
Swat	3	2	2	2	2	11
Tank	2	2	2	2	2	12
Dir Upper	3	2	2	3	3	13
Torghar	2	2	2	2	3	11

(BASED ON DATA OF PEOC FOR THE LAST THREE YEARS)



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



2.3.1 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.

ESTIMATED HUMANITARIAN RESPONSE (RELIEF ITEMS) HIGH IMPACT SCENARIO 2018

S/N	Districts	Anticipated Affected House hold (HH)	Food	Shelter and NFIs								WASH	
				Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kit	Jerry cane	Buckets	Tarpaulin		Stoves
1	Abbottabad	4420	84333600	1562	1562	2343	4685	4685	9370	9370	4685	4685	28111
2	Bannu	8645	163390500	3026	3026	4539	9077	9077	18155	18155	9077	9077	54464
3	Battagram	1781	33660900	623	623	935	1870	1870	3740	3740	1870	1870	11220
4	Buner	1425	26932500	499	499	748	1496	1496	2993	2993	1496	1496	8978
5	Charsadda	67335	1381714200	25587	25587	38381	76762	76762	153524	153524	76762	76762	460571
6	Chitral	871	18029700	334	334	501	1002	1002	2003	2003	1002	1002	6010
7	D.I Khan	655	13204800	245	245	367	734	734	1467	1467	734	734	4402
8	Hangu	1768	33415200	619	619	928	1856	1856	3713	3713	1856	1856	11138
9	Haripur	78046	1404828000	26015	26015	39023	78046	78046	156092	156092	78046	78046	468276
10	Karak	2961	56495880	1046	1046	1569	3139	3139	6277	6277	3139	3139	18832
11	Kohat	7679	146515320	2713	2713	4070	8140	8140	16279	16279	8140	8140	48838

S/N	Districts	Anticipated Affected House hold (HH)	Food	Shelter and NFIs								WASH	
				Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kit	Jerry cane	Buckets	Tarpaulin		Stoves
12	Kohistan	8526	173418840	3211	3211	4817	9634	9634	19269	19269	9634	9634	57806
13	Lakki Marwat	5729	109309320	2024	2024	3036	6073	6073	12145	12145	6073	6073	36436
14	Dir Lower	17394	347532120	6436	6436	9654	19307	19307	38615	38615	19307	19307	115844
15	Malakand	7041	140679180	2605	2605	3908	7816	7816	15631	15631	7816	7816	46893
16	Mansehra	4193	81511920	1509	1509	2264	4528	4528	9057	9057	4528	4528	27171
17	Mardan	5643	106652700	1975	1975	2963	5925	5925	11850	11850	5925	5925	35551
18	Nowshera	8670	179469000	3324	3324	4985	9971	9971	19941	19941	9971	9971	59823
19	Peshawar	64220	1283115600	23761	23761	35642	71284	71284	142568	142568	71284	71284	427705
20	Shangla	39099	788235840	14597	14597	21895	43791	43791	87582	87582	43791	43791	262745
21	Swabi	8992	169948800	3147	3147	4721	9442	9442	18883	18883	9442	9442	56650
22	Swat	1646	32887080	609	609	914	1827	1827	3654	3654	1827	1827	10962
23	Tank	7523	148955400	2758	2758	4138	8275	8275	16551	16551	8275	8275	49652
24	Dir Upper	9504	193311360	3580	3580	5370	10740	10740	21479	21479	10740	10740	64437
25	Torghar	0	0	0	0	0	0	0	0	0	0	0	0
Total		363,766	7117547760	131806	131806	197710	395419	395419	790839	790839	395419	395419	2372516

2.3.2 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 2018

S/N	Districts	Anticipated Affected House hold (HH)	Food	Shelter and NFIs									WASH
			3 months Food HH	Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kit	Jerry cane	Buckets	Tarpaulin	Stoves	Drinking water population
1	Abbottabad	1474	28111200	521	521	781	1562	1562	3123	3123	1562	1562	9370
2	Bannu	2882	54463500	1009	1009	1513	3026	3026	6052	6052	3026	3026	18155
3	Battagram	594	11220300	208	208	312	623	623	1247	1247	623	623	3740
4	Buner	476	8977500	166	166	249	499	499	998	998	499	499	2993
5	Charsadda	22445	460571400	8529	8529	12794	25587	25587	51175	51175	25587	25587	153524
6	Chitral	291	6009900	111	111	167	334	334	668	668	334	334	2003
7	D.I Khan	219	4401600	82	82	122	245	245	489	489	245	245	1467
8	Hangu	589	11138400	206	206	309	619	619	1238	1238	619	619	3713
9	Haripur	26015	468276000	8672	8672	13008	26015	26015	52031	52031	26015	26015	156092
10	Karak	987	18831960	349	349	523	1046	1046	2092	2092	1046	1046	6277
11	Kohat	2559	48838440	904	904	1357	2713	2713	5426	5426	2713	2713	16279

S/N	Districts	Anticipated Affected House hold (HH)	Food	Shelter and NFIs							WASH	
				Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kit	Jerry cane	Buckets	Tarpaulin	Stoves
12	Kohistan	2843	57806280	1070	1070	1606	3211	3211	6423	6423	3211	3211
13	Lakki Marwat	1909	36436440	675	675	1012	2024	2024	4048	4048	2024	2024
14	Dir Lower	5798	115844040	2145	2145	3218	6436	6436	12872	12872	6436	6436
15	Malakand	2347	46893060	868	868	1303	2605	2605	5210	5210	2605	2605
16	Mansehra	1398	27170640	503	503	755	1509	1509	3019	3019	1509	1509
17	Mardan	1881	35550900	658	658	988	1975	1975	3950	3950	1975	1975
18	Nowshera	2890	59823000	1108	1108	1662	3324	3324	6647	6647	3324	3324
19	Peshawar	21407	427705200	7920	7920	11881	23761	23761	47523	47523	23761	23761
20	Shangla	13032	262745280	4866	4866	7298	14597	14597	29194	29194	14597	14597
21	Swabi	2998	56649600	1049	1049	1574	3147	3147	6294	6294	3147	3147
22	Swat	548	10962360	203	203	305	609	609	1218	1218	609	609
23	Tank	2508	49651800	919	919	1379	2758	2758	5517	5517	2758	2758
24	Dir Upper	3168	64437120	1193	1193	1790	3580	3580	7160	7160	3580	3580
25	Torghar	0	0	0	0	0	0	0	0	0	0	0
Total		121,258	2372515920	43935	43935	65903	131806	131806	263613	263613	131806	131806
												790839

2.3.4 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 2018

S/N	Districts	Anticipated Affected House hold (HH)	Food	Shelter and NFIs									WASH
			3 months Food HH	Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kit	Jerry cane	Buckets	Tarpaulin	Stoves	Drinking water population
1	Abbottabad	491	9370400	174	174	260	521	521	1041	1041	521	521	3123
2	Bannu	961	18154500	336	336	504	1009	1009	2017	2017	1009	1009	6052
3	Battagram	198	3740100	69	69	104	208	208	416	416	208	208	1247
4	Buner	159	2992500	55	55	83	166	166	333	333	166	166	998
5	Charsadda	7482	153523800	2843	2843	4265	8529	8529	17058	17058	8529	8529	51175
6	Chitral	97	2003300	37	37	56	111	111	223	223	111	111	668
7	D.I Khan	73	1467200	27	27	41	82	82	163	163	82	82	489
8	Hangu	196	3712800	69	69	103	206	206	413	413	206	206	1238
9	Haripur	8672	156092000	2891	2891	4336	8672	8672	17344	17344	8672	8672	52031
10	Karak	329	6277320	116	116	174	349	349	697	697	349	349	2092
11	Kohat	853	16279480	301	301	452	904	904	1809	1809	904	904	5426

S/N	Districts	Anticipated Affected House hold (HH)	Food	Shelter and NFIs									WASH
				Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kit	Jerry cane	Buckets	Tarpaulin	Stoves	
12	Kohistan	948	19268760	357	357	535	1070	1070	2141	2141	1070	1070	6423
13	Lakki Marwat	637	12145480	225	225	337	675	675	1349	1349	675	675	4048
14	Dir Lower	1933	38614680	715	715	1073	2145	2145	4291	4291	2145	2145	12872
15	Malakand	782	15631020	289	289	434	868	868	1737	1737	868	868	5210
16	Mansehra	466	9056880	168	168	252	503	503	1006	1006	503	503	3019
17	Mardan	627	11850300	219	219	329	658	658	1317	1317	658	658	3950
18	Nowshera	963	19941000	369	369	554	1108	1108	2216	2216	1108	1108	6647
19	Peshawar	7136	142568400	2640	2640	3960	7920	7920	15841	15841	7920	7920	47523
20	Shangla	4344	87581760	1622	1622	2433	4866	4866	9731	9731	4866	4866	29194
21	Swabi	999	18883200	350	350	525	1049	1049	2098	2098	1049	1049	6294
22	Swat	183	3654120	68	68	102	203	203	406	406	203	203	1218
23	Tank	836	16550600	306	306	460	919	919	1839	1839	919	919	5517
24	Dir Upper	1056	21479040	398	398	597	1193	1193	2387	2387	1193	1193	7160
25	Torghar	0	0	0	0	0	0	0	0	0	0	0	0
Total													

2.4 DISTRICT-WISE RELIEF CASELOAD

(BASED ON 2010 DATA, SUPPLEMENTED BY SCORE FROM MATRIX INDEX) FOR MONSOON 2018 (JUNE – SEPTEMBER 2018)

S/N	Districts	Affected HH High Impact Floods (Assumed for 2018)	Affected HH Medium Impact Floods (Assumed for 2018)	Affected HH Low Impact Floods (Assumed for 2018)
1	Abbottabad	4420	1473	491
2	Bannu	8645	2882	961
3	Battagram	1781	594	198
4	Buner	1425	475	159
5	Charsadda	67335	22445	7482
6	Chitral	871	290	97
7	D.I Khan	655	218	73
8	Hangu	1768	589	196
9	Haripur	78046	26015	8672
10	Karak	2961	987	329
11	Kohat	7679	2560	853
12	Kohistan	8526	2919	948
13	Lakki Marwat	5729	191	637
14	Dir Lower	17394	5798	1933
15	Malakand	7041	2344	782
16	Mansehra	4193	1399	466
17	Mardan	5643	1881	627
18	Nowshera	8670	2890	963
19	Peshawar	64220	21407	7136
20	Shangla	39099	13033	4344
21	Swabi	8992	2997	999
22	Swat	1646	549	183
23	Tank	7523	2508	836
24	Dir Upper	9504	3168	1056
25	Torghar	0	0	0
Total		363,766	121,258	40,421

2.5 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.

Item/Cost	High Impact Scenario (in Millions)	Medium Impact Scenario (in Millions)	Low Impact Scenario (in Millions)
Estimated Affected Population	363766 HH	121258 HH	40421 HH
NFIs	4846.81 million	1615.64 million	538.56 million
FIs	6547.78 million	2128.26 million	727.57 million
Media Campaign	5 million	5 million	5 million
Total	11399.59 million	3748.9 million	1271.13 million

2.6 PLANNING ASSUMPTIONS

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

RIVER WATER FLOW ASSUMPTION
(SOURCE: IRRIGATION DEPARTMENT)

S/N	NAME OF RIVER, KHAWARS & NULLAH	FLOW STATUS					DATE
		LOW	MED	HIGH	V. HIGH	HISTORICAL	
1	Kabul River at WARSAK	30000	50000	100000	200000	157000	Jul-78
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

S/N	NAME OF RIVER, KHAWARS & NULLAH	FLOW STATUS					DATE
		LOW	MED	HIGH	V. HIGH	HISTORICAL	
18	SIRAN River at Daryal	5000	15000	30000	45000	55181	1992
19	HARO River at Jabori	5000	8000	25000	40000	82876	1992
20	KUNHAR River at Balakot	10000	20000	40000	55000	92000	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 Rajoja	5000	15000	25000	45000	75970	Aug-92
33	MUQAM Nullah at Shahbaz garhi	2000	5000	10000	20000	38155	12/11/1986
34	RUSTAM Khwar	700	2000	6000	9800	17934	8/11/1988
35	TAKHTA BAIG Khwar at Khyber Agency	3000	9000	26500	80500	123000	8/4/2008
36	BALAR KHWAR at Mardan	2000	6000	13000	20000	42000	7/29/2010
37	KOHAT TOI	2000	9000	12000	17000	50000	7/28/2010
38	JINDI KHWAR at Utmanzai	6000	9000	16000	21000	25000	7/29/2010
39	DAGI NULLAH at Pabbi	500	1000	2000	4000	5000	7/30/2010
40	KHUDRIZAI NULLAH at Pabbi	200	500	1000	2000	2500	7/30/2010



مون سون خصوصی آگاہی مہم

موسم برسات۔۔۔ بہت احتیاط

ہنگامی صورت حال سے نمٹنے اور آمدنی کاروائیوں سے متعلق معلومات کے لئے اپنی مقامی انتظامیہ کے دفتر یا پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی، خیبر پختونخوا کے کنٹرول روم سے

091-9213867, 1700

کسی بھی وقت رابطہ کریں

پراونشل ڈیزاسٹر مینجمنٹ اتھارٹی


حکومت خیبر پختونخوا





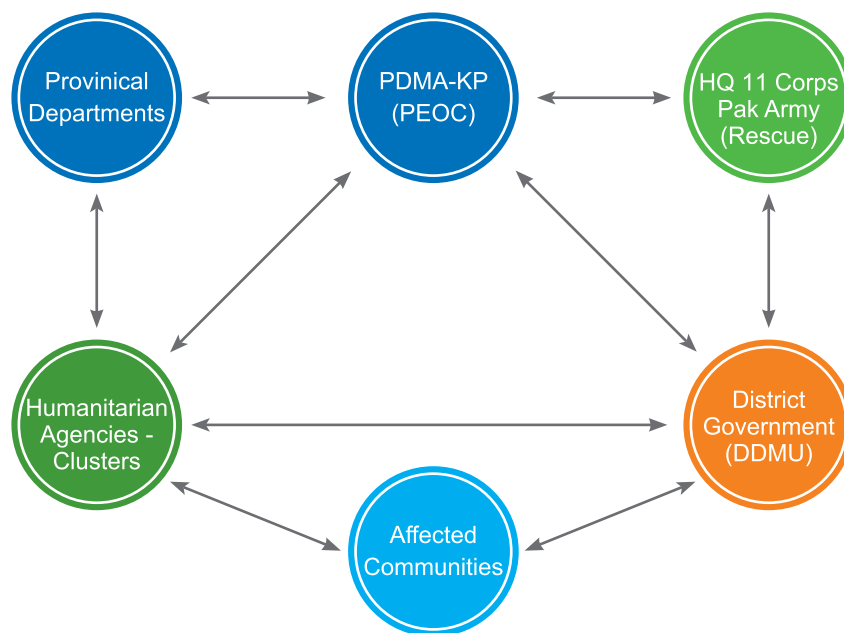
CHAPTER-3

PROVINCIAL PREPAREDNESS AND PLANNING-COORDINATION MECHANISM



3.1 COORDINATION MECHANISM FOR MONSOON 2018

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, Azad Jammu & Kashmir, and FATA.



3.2 CONSULTATIVE MEETINGS

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 Metrological 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.

Timeline for Monsoon Preparatory Sessions with All Stakeholders

S#	Meetings with All Stakeholders	Dates
1	Reconnaissance of Flood Protection Structures with the help of Pak Army Engineering Core	23-Jan-2018
2	Meetings with Provincial Line Departments	19-20-Feb-2018
3	Meetings with District Administrations	20-23-Feb-2018
4	Meetings with Federal Line Departments/Agencies	26-27-Feb-2018
5	Meeting with Humanitarian Partners (UN Agencies/INGOS)	28-Feb-2018
6	Meetings in 07 Divisional Headquarters on Monsoon Plans of the respective Districts	01 Mar 2018 to 30 Mar 2018
7	Meetings on Monsoon Preparedness and Progress on Flood Protection Structures in Federal Flood Commission	28-Mar-2018 26 -April-2018 15-May-2018
8	Meetings with Army Engineering Core for Flood Protection	07/26-Apr-2018, 15-May-2018
9	National Monsoon Conference (At NDMA, Prime Minister Secretariat)	07-06-2018



3.3 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 26 districts formulated contingency plans of their respective districts for the upcoming Monsoon season. District contingency plans include general profile of the district, resource mapping, and identification of vulnerable UCs/location, identification of evacuation centers, establishment of control rooms and nomination of focal persons along with contact lists. All districts mapped their resources and identified needs and gaps in rescue equipment and NFIs.

DRM Measures

- All concerned departments and district administrations were requested to ensure the removal of encroachments from all water ways by mid of May 2018 .
- To enlist buildings (Public/Private) and suitable Open Places for shelter camps as per guidelines of PDMA.
- To enlist private boats and swimmers in river bound districts
- To enlist major transporters, heavy machinery owners
- To enlist private hospitals and their owners
- To enlist volunteers and philanthropists
- To sensitize the vulnerable communities
- To ensure the prompt transportation mechanism of relief items
- To conduct Mock Exercises for search & rescue, first aid and evacuation
- To constitute relevant committees and assigned duties from top to bottom at district level
- To ensure well defined early warning system
- Formulation of Medical Teams and pre arrangements for stocking of medicines required for monsoon season
- Police Deployment plan for emergency response

3.4 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.

3.5 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.

3.6 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/N	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	Nowshehra	42	42	85	42	85	42	17	42	34
3	Swat	42	42	85	42	85	42	17	42	34
4	DI 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

3.7 RESOURCE MAPPING OF DISTRICTS

The rescue equipment and NFI can play vital role in the emergency situation to provide immediate assistance to the effected population to avoid primary as well as secondary hazards. The major NFIs includes(Tent, Blanket, Mattress, Plastic or Tarpaulin sheet, Jerry cane or Cooler, Bucket, Kitchen set, Stove, Hygiene Kit, Mosquito net, Lifesaving Jacket and Generator).

All districts concerned were engaged for district resource mapping. The agreed district profile format was shared with each district to identify their needs and gaps of the rescue equipment and NFIs.

Detail of the district resource mapping is as follow.

3.8 RESCUE ITEMS' STOCK HELD BY THE DISTRICTS

S.No	Districts	Dozers	Tractors	Dumpers/ loaders	OBM/Boats	Ambulances	Life Jackets	Generators	Search Lights	Sand Bags	De-Watering Pumps	Life Rings	Walkie Talkie	Boiler	Excavators	Road rollers	Ropes	Rubber tubes	Fire extinguisher	Trolleys
1	Peshawar	1	26	1	15	29	250	6	50		8	10	30							
2	Mardan		7		7	43	20	7	7		21		30							
3	Nowshera				4	5	12	4	5		2		10							
4	Abbottabad	2	5		1	5	7	2	5		1	2	12						3	12
5	D.I.khan				9	4	26	5	11		8	2	12							
6	Swat		13	4	7	4	15	6	7			2	12							
7	Haripur	2	11			4	2	1	4				3							11
8	Charsadda				6	2	69	3	8	150	13	2								
9	Kohat		15	2	27	2	55	2	9	300	7	1	3							
10	Chitral	29	8		1	2	6	2	6			2	2							
11	Dir Lower			1				5	4					1						
12	Dir Upper		5			24													1	
13	Buner	2	7	1											3				7	
14	Torghar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

S.No	Districts	Dozers	Tractors	Dumpers/ loaders	OBM/Boats	Ambulances	Life Jackets	Generators	Search Lights	Sand Bags	De-Watering Pumps	Life Rings	Walkie Talkie	Boiler	Excavators	Road rollers	Ropes	Rubber tubes	Fire extinguisher	Trolleys
15	Mansehra	6	4																	
16	Shangla	4	2			10														
17	Bannu	5	13			8	50	5			4								2	
18	Hangu		4			3	33	1			1									
19	Tank	2	5					4			5									2
20	Karak	3	3	3				6			10	9								4
21	Kohistan Upper																			
22	Kohistan Lower																			
23	Malakand		4												21	1				
24	Battagram		9			4	20		1									2		8
25	Swabi		27	1				3			15									6
26	Lakki Marwat		6			3	100													
		19	94	13	77	103	495	53	112	300	87	21	114		22	1		7		27

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.

3.9 RESCUE ITEMS' NEEDS & GAPS OF DISTRICTS

S.No	Districts	Dozers	Tractors	Dumpers/ loaders	OBM/Boats	Ambulances	Life Jackets	Generators	Search Lights	Sand Bags	De-Watering Pumps	Life Rings	Walkie Talkie	Boiler	Excavators	Road rollers	Ropes	Rubber tubes	Fire extinguisher	Trolleys
1	Peshawar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Mardan				30		500		50								200	500		
3	Nowshera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Abbottabad	3	3	4							3								1	3
5	D.I.khan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Swat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Haripur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Charsadda	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Kohat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Chitral	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Dir Lower	3	3	3			50	5	50		5				3				3	3
12	Dir Upper	1	10	2	3					500		10	10		1					2
13	Torghar	3	3	3	2			2		10	2	10	10							3
14	Mansehra	1													4					

S.No	Districts	Dozers	Tractors	Dumpers/ loaders	OBM/Boats	Ambulances	Life Jackets	Generators	Search Lights	Sand Bags	De-Watering Pumps	Life Rings	Walkie Talkie	Boiler	Excavators	Road rollers	Ropes	Rubber tubes	Fire extinguisher	Trolleys
15	Shangla	4	5	4																5
16	Bannu	5	6	10	5	10					10				5				6	10
17	Hangu	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Tank	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Karak	3	3	3	6	5000	10								3					
20	Buner	2	2	3	15						15				1				5	2
21	Kohistan Upper	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Kohistan Lower	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Malakand	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Battagram	3	6	2	5			2			2		2						1	4
25	Swabi						100	5	250		10									
26	Lakki Marwat		3	4				12			11									5
		28	44	28	20		650	52	350	5510	118	20	22		17		200	500	16	37

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.

3.10 SUMMARY OF NFI's STOCK POSITION HELD BY DISTRICTS

Sr. No	Name of district	Tents/Quilts	Blankets	Mattresses/Sleeping bags	Plastic/ Tarpaulin	Jerry cans/coolers	Buckets	Kitchen sets	stoves/wooden burning stove	Cylinders	Hygiene kits	Net mosquitoes	Life jackets	Dewatering pumps	Generators	Sand bags
1	Kohat	207	251	51				51				300	30			300
2	Dir lower	180/70	180			100	40	140							5	
3	Charsada	410		225		60										
4	Torghar	140	900	200		100	0	100			0	70	15			
5	Shangla	167/1919	122	50	204/25	96		96	10	52	422		101			
6	Swabi	140/470														
7	Swat	351/851	198	57/27		170		140		130		3	140		2	
8	Dir Upper	15/1531	340			110/50		30	90			98				
9	Hangu	372	2010									100				
10	Bannu	140/197	67			100		87		47		100	50			
11	Chitral	1030	2730													
12	Mardan	481														
13	Battagram	184	400			400		100	100	200	100	200				
14	Buner	150	2200			50		50	45	45						

Sr. No	Name of district	Tents/Quilts	Blankets	Mattresses/Sleeping bags	Plastic/ Tarpaulin	Jerry cans/coolers	Buckets	Kitchen sets	stoves/wooden burning stove	Cylinders	Hygiene kits	Net mosquitoes	Life jackets	Dewatering pumps	Generators	Sand bags
15	Tank	438														
16	Lakki Marwat	171	129	300	6	165	50	100		50			50			
17	D.I Khan	325						125				450				
18	Haripur															
19	Mansehra	60			4800/10		42			5			32			1
20	Karak	105	139				10			2		188				
21	Kohistan	714	1065	100	200/20	478		289		50	189	6				
22	Malakand	40			60	70	30	60		40						
23	Abbottabad	150/63	12	150				100		50		100	140			
24	Peshawar															
25	Nowshera															
		1143/8928	10743	57/1103	5204/121110/1839		172	1468	245	671	711	1615	558		8	300

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

S/N	Name of district	Quilts/Tents/	Blankets	Mattresses/Sleeping 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	500	180			1000	500	1000	1000	1000	2000		50	5	5		
3	Charsada	5000		5000	500/2000	5000	5000	5000	5000	5000	5000	10000	200	49			300
4	Torghar				0/200	50		50	50	50	100	100	20				100
5	Shangla	3000	3000	50	1000/1000	500	1000	1000	500	500	3000	3000	50				100
6	Swabi	250		500	500/500	500	500	500		250	500	500		10	5		500
7	Swat																
8	Dir Upper	75/500	300	50	50/100	50/100	300	100	50	50	200	100	25				10
9	Hangu																
10	Bannu	500/500	500	500	150/200	100		500		100	1000	1000	50				
11	Chitral	500		31										5			
12	Mardan			500	500/500	500/500		500	500	500		500	500	30			200
13	Battagram	450/200	1000	100	100/1000	100	200	200	500	600		500					50
14	Buner	500	500	1000	1500/1500	1000	1500	2000	200	300	5000	2000	500				500

S/N	Name of district	Quilts/Tents/	Blankets	Mattresses/Sleeping 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
15	Tank																
16	Lakki Marwat																
17	D.I Khan	300	1000		1000/1000	500	500	500		200	1000	10000	500	20	10		
18	Haripur	200		200	500/500	500	300	500	500		500	1000		5	5		
19	Mansehra	500		200	5000/100	100	300	100	100	100	200	200	50	6	30		50
20	Karak	105	139				10			2		188					
21	Kohistan Upper	200	600	100	100/500	200	100	200	150		200	100		8	10		
22	Malakand																
23	Abbottabad	300/300		300				200		50		200					200
24	Peshawar	1000	500	5000	5000/5000	5000	5000	5000	5000		1000	5000		50	10		
25	Nowshera				50		140	196			200	10		4			
26	Kohistan Lower	200	600	100	100/500	200	100	200	150		200	100		5	6		
Total		1325/12950	8319	13631	10900/14650	550/15350	15450	17746	13700	8702	20100	34498	1945	197	81		2010

3.12 LIST OF NFI STOCK AVAILABLE WITH PDMA

S. NO	ITEMS	QUANTITY
1.	TENTS	6125
2.	Quilts	19038
3.	KITCHEN SETS	3602
4.	JERRY CAN	8100
5.	PLASTIC BUCKETS	5000
6.	PLASTIC MATS	4403
7.	GAS CYLINDER	3491
8.	MOSQUITO NETS	5821
9.	WATER COOLER	762
10.	FIRE BLANKETS	160
11.	Transformers	13
12.	Bricks	20000
13.	Saw Cutter	32
14.	Sleeping Bags	102
15.	Life Jackets	379
16.	Blankets	35
17.	Stoves	437
18.	Folding bed	236
19.	Bed Sheet	1206 pcs
20.	Gift Packs	4968
21.	Crockery Tea Cups + Glasses	36 CTN
22.	Ceiling Fan	422
23.	Cotton Metris	599
24.	Generator	102
25.	Prayer Mat	381
26.	Room Air Cooler	34
27.	Shovel wooden	685
28.	Pedestal Fan	205
29.	Food Mat	255
30.	Koica Silver Mats	46 CTN
31.	Water Bags	1700
32.	Water Purification Unit	01
33.	Soap Dispensers	132
34.	Electric Sprayer	187
35.	Radio Sets	270
36.	Jica Water Filters	10
37.	Sand Bags (Empty)	2700

3.13 OVERVIEW OF NFI's STOCK POSITION AND GAP ANALYSIS

S/N	Item	PDMA Stock	Pakistan Red Crescent Society (PRCS) Stock	Districts Stock	Total Stock	High Impact Scenario			Deficiency/Gap		
						High Impact Scenario	Medium Impact Scenario	Low Impact Scenario	High Impact Scenario	Medium Impact Scenario	Low Impact Scenario
1	Tents	5800	2965	6511	15276	118063	39354	13118	102787	24078	-2158
2	Plastic Sheet/Tarpaulin	1578	13751	14210	28011	118063	39354	13118	90052	11343	-14893
3	Quilts/Blankets	20973	24778	7135	52886	236134	78711	26237	183248	25825	-26649
4	Water Cooler	810	3642	804	5542	708402	236134	78711	702860	230592	73169
5	Buckets	5000	346	500	5846	708702	236234	78745	702856	230388	72899
6	Kitchen Sets	5002		435	5437	354201	118067	39356	348764	11630	33919
7	Gas Stoves	437	1547	433	2417	354201	118067	39356	351784	115650	36939
8	hygiene Kits	24	4111	200	3003	354201	118067	39356	351198	115064	36353
9	Mosquito Nets	6121	3907	2241	12269	33605	11202	3734	21336	1067	-8535
Total		44911	55047	32469	130687	2985572	995190	331731	2854885	765637	201044



CHAPTER-4

DISASTER MANAGEMENT STRATEGIES



PDMA has devised/planned 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 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 with relevant supporting staff in the end of March, 2018. The roles and responsibilities are given below:-

ROLES AND RESPONSIBILITIES

4.1 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:-

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.

PROVINCIAL EMERGENCY OPERATION CENTRE (PEOC)

Established and recently revamped, shall receive and transmit flood / water level information thrice in flood season and on hourly basis during an emergency.

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.

FINANCIAL RESOURCES AT DISTRICT LEVEL

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 2018 monsoon season.

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 2018 monsoon season.

4.2 DISTRICT ADMINISTRATIONS:

- i. Formulation of District level contingency plans
- ii. Ensure gender balance in the need assessment
- iii. Development and availability of sex disaggregated data
- iv. Establishment of control rooms and dissemination of contact details
- v. Arrangements for Quick dissemination of flood warning and establishment of Observation Posts (OPs) on the likely flood affected areas.
- vi. Activation of Civil Defense staff and volunteers for rescue and relief operations
- vii. Identification of flood disaster prone areas and threatening water channels
- viii. Earmarking evacuation arrangements routes, building and guidance etc.
- ix. District level food stock (wheat) and NFIs quantities and locations
- x. Coordination with humanitarian agencies i.e. INGOs, NGOs and UN agencies
- xi. Need and gap analysis of funds and stores.
- xii. Formulation of comprehensive health response plans in coordination with DHO.
- xiii. Carry out necessary liaison with Pak Army, Frontier Constabulary and Scouts for initiation of rescue operations.
- xiv. Tasking of police authorities in evacuation and keep law and order
- xv. Identification and removal of encroached areas along with BOR staff and municipalities.
- xvi. Excavation work of threatening water channels
- xvii. Maintenance of flood protection works in respective district with sand bags and locally available material.
- xviii. The training of human resource, especially for operating rescue boats
- xix. Coordination and tasking of all relevant departments for putting in place requisite preparedness measures before the monsoons

4.3 IRRIGATION DEPARTMENT

- i. Establishment of Provincial and district level Flood Emergency Cells
- ii. Formulate and execute flood emergency response plan
- iii. Establishment of Flood/water Monitoring Network
- iv. Provide early warning:
 - a. 16–24 hours warning along Swat River
 - b. 5-7 hours along Kabul
 - c. 6–48 hours along Indus at DI Khan
- v. Removal of encroached areas with the assistance of DCs, TMA and C&W
- vi. Necessary liaison with Pak Army, Frontier Constabulary and Scouts for initiation of flood fighting operations (DI Khan Only)

Department	Name and Designation	Office No.	Cell No.	Fax No.
Irrigation	Zahoor, XEN Hydrology	9212114	03009152983	9212114

4.4 COMMUNICATION AND WORKS DEPARTMENT

- Establishment of Provincial Flood Emergency Cell
- Formulate and execute flood emergency response plan
- Identification of vulnerable infrastructure (buildings, roads and bridges)
- Preposition available machinery/ plants at vulnerable areas
- Restore severed land communication
- Liaison with local Army Authorities

Department	Name and Designation	Office No.	Cell No.	Fax No.
C&W Department	Habib ur Rehman, Executive Engineer North	9210456	03018531961	9212429
C&W Department	Engr. Shafiq ur Rehman, Chief Engr. East	09929310272	03139900017 03345168811	0992330630

4.5 HEALTH DEPARTMENT

- Establish a Health Emergency Preparedness and Response Cell- HEPR
- Carry out detailed planning with district officials (EDOs) and formulate district level health plans for execution
- Carry out need and gap analysis for medicines and required stocks
- Availability of segregated health staff figures (No of female and no of male doctors)
- Coordinate with humanitarian agencies i.e. INGOs, NGOs and UN agencies to make up the short falls

Department	Name and Designation	Office No.	Cell No.	Fax No.
Health	Zohra Nigar, DS Admin	9210575	03329339957	9210574

4.6 FOOD DEPARTMENT

- Keeping stock of wheat available as per the requirement at various places in the province
- Ensuring availability of other food items in the disaster prone as well as disaster affected areas.
- Arrangement of safe warehouse/ storage facility for food/wheat, where required.
- Ensure food provision for people in those areas, which are expected to be cut off due to roads/ routes wash out.

Department	Name and Designation	Office No.	Cell No.	Fax No.
Food	Riaz Kareem, DD Admin	9225380	03000344709	9225383

4.7 INFORMATION DEPARTMENT

- Establishment of a flood emergency control room/unit
- Broadcast advance warnings to sensitize the public
- Guide the public about the nearby safer places, routes and other precautionary measures
- Publication of the flood-related reports on daily-basis in the local, regional and national

- newspapers
- v. Advocating for responsible and ethical reporting
- vi. Arrange press briefings/press conferences for any officer/official
- vii. Awareness raising on the needs of vulnerable groups in disasters

Department	Name and Designation	Office No.	Cell No.	Fax No.
Information	Masood Shah, SO Admin	9223526	03009031200	9210387

4.8 LOCAL GOVERNMENT & RURAL DEVELOPMENT DEPARTMENT

- i. Establishment of a provincial flood emergency control room/unit
- ii. Arrange potable drinking water and sanitation facilities for flood affected areas
- iii. Preparation of municipality-wise list/stock position of flood emergency response equipment and machineries
- iv. Removal of carcasses and debris after floods
- v. Contingency plans for immediate restoration of water supply, sanitation, cause ways, culverts, links roads, street lights and public latrines
- vi. Coordinate with humanitarian agencies i.e. INGOs, NGOs and UN agencies to make up the short falls
- vii. Arrange for requisite Water and Sanitation in all the earmarked evacuation centers in coordination with education department

Department	Name and Designation	Office No.	Cell No.	Fax No.
Local Govt.	Mirza Ali, DS Admin	9210523	03348834005	9210323

4.9 MUNICIPALITIES

- i. Chief Municipal Officers (CMO) to be declared as focal person.
- ii. Removal of encroachments through close coordination with Revenue, Irrigation and other relevant departments
- iii. Keep close liaison and coordination with respective DC?s and DDMU?s round the clock during the emergency
- iv. TMOs and their staff should be trained/sensitized by the respective DCs/ DDMU for monsoon emergency response and role and responsibilities
- v. Cleanliness of sewerage and Nullah by the respective municipalities.

4.10 PUBLIC HEALTH ENGINEERING DEPARTMENT

- i. Establishment of a provincial flood emergency control room/unit
- ii. Arrange potable drinking water and sanitation facilities for affected areas
- iii. Contingency plans for immediate restoration of water supply, sanitation, cause ways, culverts, links roads, street lights and public latrines
- iv. Removal of carcasses and debris after floods
- v. Coordinate with humanitarian agencies i.e. INGOs, NGOs and UN agencies to make up the short falls

- vi. Arrange for requisite Water and Sanitation in all the earmarked evacuation centers in coordination with education department

Department	Name and Designation	Office No.	Cell No.	Fax No.
PHE	M. Amjad Shamsher, DS Technical	9214213	03005760508	9213922

4.11 EDUCATION (E&SE) DEPARTMENT

- i. Establishment of a provincial flood emergency control room/unit
- ii. Provide segregated data on no of enrolled children in a specific district
- iii. Provide support to the District Admin for establishing evacuation centers in schools /colleges
- iv. Identification of all schools/ colleges earmarked for evacuation centers
- v. Arrange continuation of education in flood affected areas
- vi. Coordinate with humanitarian agencies i.e. INGOs, NGOs and UN agencies to make up for the short falls
- vii. Initiate activities to ensure safeguarding children in emergencies

Department	Name and Designation	Office No.	Cell No.	Fax No.
E&SE	Imran, Planning Officer III	9210480	03005892122	9211419

4.12 AGRICULTURE DEPARTMENT

- i. Establishment of a provincial flood emergency control room/unit
- ii. Arrange for livestock fodder and vaccination cover of live stock
- iii. Arrange for provision of seeds and agriculture inputs after floods
- iv. Arrange for de-silting of channels and leveling of Agriculture- land
- v. Coordinate with humanitarian agencies i.e. INGOs, NGOs and UN agencies to make up the short falls

Department	Name and Designation	Office No.	Cell No.	Fax No.
Agriculture	Syed Ibrar Shah, Progress Officer	9212920	03339746651	9210033

4.13 HOME AND TRIBAL AFFAIRS DEPARTMENT

- i. Facilitate DCs through Police Wireless Net in case of communication failure of other networks i.e. provision of necessary hardware and a dedicated frequency for emergency use of DCs before during and after floods/monsoon.
- ii. Facilitate the irrigation department flood monitoring / gauging persons in communication and transmitting of water flow and discharge information through Police Wireless Network, wherever wireless equipped police station or post exists in vicinity of irrigation department gauge.
- iii. Security arrangements for camps and evacuation centers

Department	Name and Designation	Office No.	Cell No.	Fax No.
Home	Tayyab Abdullah, DS Admin	9210046	03339103510	9210201

4.14 CIVIL DEFENSE

- Establishment of Flood Emergency Control Cell in respective districts
- Keeping the volunteers on alert
- Performance of rescue operations
- Assist in the performance of relief activities.

4.15 EMERGENCY RESCUE SERVICE (RESCUE 1122)

- Establishment of Flood Emergency Control Cell in respective districts.
- Performance of rescue operations

4.16 PROVINCIAL POLICE

- Maintain law and order situation in the districts and assist district administration for an orderly evacuation if such situation arise
- Facilitate DCs through Police Wireless network in case of communication failure of other networks.
- Facilitate the Irrigation Department flood monitoring / gauging persons in communication and transmitting of water flow and discharge information through Police Wireless Network, wherever wireless equipped police station or post exists in vicinity of Irrigation Department gauge.

4.17 PAKISTAN METEOROLOGICAL DEPARTMENT (REGIONAL OFFICE PESHAWAR)

- Establishment of Flood Emergency Control Cell
- Provide reliable and in-time weather forecasts for Khyber Pakhtunkhwa and its catchment areas
- Coordinate, liaison and exchange (credible and comprehensible) information with Irrigation Department and PDMA for early warning as agreed

4.18 FORESTRY, WILDLIFE AND ENVIRONMENT DEPARTMENT

- Undertake assessment of vulnerabilities of the natural resources
- Minimize the cutting of trees before and during monsoons
- Arrange for removal the logs from Nullah and stock them at safe places.

Department	Name and Designation	Office No.	Cell No.	Fax No.
E&F	Tariq Jamal, DS Admin	9210414	03439995043	9210536

4.19 SOCIAL WELFARE DEPARTMENT

- i. Formulate Flood Contingency and Response Plans, catering for the needs of women, children and other socially vulnerable groups
- ii. Keep the flood response stocks available and carry out need and gap analysis
- iii. Provide support to the Provincial / District Governments to cover the needs of socially vulnerable groups
- iv. Share data regarding vulnerable population in a particular district (persons with disabilities, women headed households, orphan children etc.)

Department	Name and Designation	Office No.	Cell No.	Fax No.
Zakat	Azhar, DS Admin	9211732	03344110511	9211938

4.20 HUMANITARIAN COMMUNITY- UN AGENCIES, PAKISTAN RED CRESCENT SOCIETY PRCS, INGO'S & NGO'S

- i. Formulate their organizational Flood Contingency and Response Plans consistent with provincial and national policies, to cater for the unmet response needs.
- ii. Ensure that contingency plans are meeting the needs of vulnerable segment of the population in a more targeted manner
- iii. Coordination of Contingency and Response Plans with PDMA.
- iv. Deployment of humanitarian assistance and flood response consistent with provincial plan. Special attention shall be given to:
 - a. The immediate relief needs of the affected communities such as food & water, shelter, health and NFIs during and after the monsoon season.
 - b. Follow-up relief measures should preferably include support for repair of houses, repair/replacement of health infrastructure, repair/replacement of community damaged infrastructure, replanting of Rabi crops, education and to immediately recover main source of income to support in meeting their needs.
 - c. Special emphasis will be placed on the identification of the weaker and vulnerable groups in society that suffer worst from of floods, especially, the young and the very old, women, the disabled and certain occupational groups. Identification and extension of appropriate relief packages for such groups will also be a priority.

The humanitarian community will report progress on a regular basis.

4.21 PAKISTAN ARMY (HQ 11 CORPS)

- i. Establishment of Flood Coordination Centers.
- ii. Assist provincial government in search, rescue and response operations when called in aid of civil administration.
- iii. Coordinate with PDMA and other departments to make up for the short falls.



ANNEXURES



ANNEXURE 1: CONTACT LIST OF NDMA AND OTHER PDMAS

S.No	Name and designation	Office no/ fax no	Cell no
1	General Umar Mehmood Hayat, 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	Mr. Akhtar Hussain Bugti, Secretary/ DG, PDMA, Sindh.	021-99332701	0300-2628505
		99251458-9	
		99266004	
4	Mr. Mudassar Malik, DG PDMA, Punjab.	042-99203164-5	0322-8064444
		Fax no: 042-99204405	
5	Mr. Muhammad Tariq, DG, PDMA, Balochistan.	081-9241118	0333-4507773
6	Mr. Zaheeruddin Qureshi, Secretary/DG, SDMA, Muzaffarabad, Kashmir.	05822-921536	0300-5356441
		921643	
7	Farid Ahmad, DG, Gilgit Baltistan Disaster Management Authority (GBDMA).	05811-922030	0341-9823306
		920874	
		Fax no: 05811-920875	
8	Mr. Siraj-ul-haq, DG, FDMA.	091-9216532	0346-9555577
		Fax no: 0919216520	

ANNEXURE 2: COMMISSIONERS CONTACT LIST

Division	Office	Fax
Malakand	0946-9240226,0946-9240185	0946-9240229-178,0946-9240223(House)
Hazara	0992-9310111/9310222/9310444	0992-9310500
Mardan	0937-9230572-73	0937-9230578
Peshawar	091- 9211337	091-9214085
Kohat	0922-9260002	0922-9260105
Bannu	0928-9270044	0928-9270041
D.I Khan	0966-9280351	0966-9280352

ANNEXURE 3: DEPUTY COMMISSIONERS CONTACT LIST

District	Office	Residence	Fax
Abbottabad	0992-9310200/01-24	0992-9310464	0992-9310202
Bannu	0928-9270032	0928-9270032	0928-9270079
Battagram	0997-310030/310136	0997-311421	0997-310051
Buner	0939-510450	0939-510888	0939-510427
Charsadda	091-9220024	091-9220020	091-9220021
Chitral	0943-412055/412519/412368	0943-412519	0943-412421
D.I.Khan	0966-9280116	0966-9280022	0996-9280110
Dir Lower	0945-9250003/09459250031	0945-9250002	0945-9250001
Dir Upper	0944-880394	0944-880104	0944-881130
Hangu	0925-621175	0925-623968	0925-620050
Haripur	0995-613391	0995-611149	0995-615412
Karak	0927-210825/828, 0333-9713050 Ishtiaq	0927-210600	0927-210925
Kohat	0922-9260268	0922-9260031	0922-9260031
Kohistan Upper	0998-407002	0998-407193	0998-407001
Kohistan Lower	0998-405091	0998-405113	0998-405092
Lakki Marwat	0969-538330-1	0969-538331	0969-538333
Malakand	0932-452080	0932-452043	0932-452105
Mansehra	0997-304148	0997-920174	0997-305513
Mardan	0937-9230048/45	0937-9230457	0937-9230303
Nowshera	0923-9220099/98/9220098/99	0923-9220098	0923-9220159
Peshawar	091-9212302	091-9211338	091-9212303
Shangla	0996-850005	0996-850008	0996-850006
Swabi	0938-221300/332	0938-221220	0938-221917
Swat	0946-9240340/337	0946-9240338	0946-9240329
Tank	0963-511326	0963-511326	0963-510300
Torghar	(SAQIB)0345-5133993	997214762	0997-580188

ANNEXURE 4: CONTACT LIST OF DDMOs

S.No	District	PTCL	Office Fax
1	Abbottabad	0992-9310203	0992-9310202
2	BANNU	0928-9270039	0334-8651652
3	Battagram	0997-312189,310136/310391(AC)	0997-310051
4	Buner	0939-511444/0939510234	0939-510427
5	CHARSADDA	091-9220137/Haroon 0333-9319906	091-9220026
6	CHITRAL	0943-413686,0943-412368	
7	CHITRAL	0943-413686,0943-412368	0943-413686
8	D I KHAN	0966-9280117	0966-9280110
9	DIR LOWER	0945-9250029/03329359434	0945-9250001
10	DIR UPPER	0944-880506/880594/880278	0944-881130
11	Hangu	0925-622682/623782-	0925-621175
		Shahid Munawar P.A to DDMO	
		0336-5821996	
		0333-9677749	
12	Haripur	0995-610455	0995-615412
13	KARAK	0927-210710	0927-210825
14	KOHAT	0922-9260046	922926245
15	Kohistan Lower	0998-405091	0346-8867840
16	Kohistan Upper	0998-407029	0998-407001
17	Lakki Marwat	0343-9660966	0969-350955
18	Malakand	0932-412254/0342-8281294 Relief Asst	0932-413199
19	MANSEHRA	0997-300751	997305513
20	Mardan	0937-9230701/ 0341-5376622 Islam	0937-9230303
21	NOWSHERA	0923-9220104	0923-9220220
22	PESHAWAR	091-9212304-9210077/ Haseeb 03329085616	091-9212303/ 091-9214025
23	Swabi	0938-221401	938221917
24	SHANGLA	0996-850007/3337/850793	0996-850006
25	SWAT	0946-9240341 -9240008/ 0333-9488321 M. Saleem	0946-9240329
26	TANK	0963-512290/510835	0963-510300

ANNEXURE 5: FLOOD EMERGENCY DIRECTORY OF IRRIGATION DEPARTMENT FOR THE YEAR, 2018

DIRECTOR GENERAL (SMALL DAMS)

Designation	Name	Office No.	Cell No.
D G Small Dams	Muhammad Iqbal	9219555	0333-9236201
Director	Amir Iqbal	9219555	0345-9553087
Dy. Director Peshawar	Pir Wajid	9219535	0346-7847040
Dy. Director	Roohul Mohsin		0344-9838169
Dy. Director Kohat	Abdul Sattar Khan		0333-0564039

PROJECT DIRECTOR (REHABILITATION)

Designation	Name	Office No.	Cell No.
P D (Rehabilitation)	Malik Mazhar	2617053	0300-9155450
Dy. Director	Qabil Shah		0300-5927622

PROJECT DIRECTOR WARSAK REMODELING/DG FDRD FAX: 9222775

Designation	Name	Office No.	Cell No.
DG FDRD / Project Director WR	Arbab Zulfiqar Ahmad	9222774	0333-9142040
Project Manager	Niaz Sarwar Baloch	9222775	0333-9102489

PROJECT DIRECTOR SIRAN RIGHT BANK CANAL

Designation	Name	Office No.	Cell No.
PD SRBC Mansehra	Shafiq ur Rehman		0300-9007893
Deputy Director	Wasim Malik		0300-9116321
Deputy Director			0300-5623304

PROJECT DIRECTOR PHLC

Designation	Name	Office No.	Cell No.
PD PHLC Swabi	Atta ur Rehman	0938-530103	0300-9393720
Deputy Director			
Dy. Director	Akhtar Rashid		0300-5980475

LIST OF TELEPHONE DIRECTORY OF CHIEF ENGINEER (SOUTH) IRRIGATION

Designation	Name	Office No.	Cell No.
Chief Engineer (South)	Zahid Abbas	212116	0333-9055123 Fax 9212652
S.E (H/Qtrs.) South	Saeed ur Rehman	9212174	0333-9233643
XEN Hydrology	Zahoor Khan	9212114	3009152983
Technical Officer		9212122	
Dy. Director Planning		9212119	
S.E Peshawar Circle	S.M.Shabir	9212115	0333-9331123
XEN Peshawar Canal	Asad Zaman	9210102	0333-9101405
XEN Warsak Canal	Samiullah Kundi	9212502	0303-8173125
XEN Tube well	Sher Zaman	9222731	0320-8889995
XEN Charsadda	Baatur Zaman	6514641	0300-8591803
XEN Mechanical	Misal Khan	9212120	0312-5871195
S.E Bannu	Shoaib	0928-9270061	0333-9216239
XEN Bannu Canal	Zar Gul	0928-9270056	0316-8066666
XEN Marwat Canal	Muslihud Din	0928-9270063	0334-8831172
XEN Kohat	Khushal Khan	0922-9260173	0345-9240065
S.E D.I Khan	Farooq Ahmad	0966-9280238	0345-9130833
XEN PID	Muhammad Tahir	0966-928 0127	0332-9811986
XEN CRBC	Sharifullah	0966-9280237	0333-4977987
XEN Gomal Zam	Tariq Ali	0966-9280336	0336-7761949
XEN Flood	Ghulam Rasool Barki	0966-713303	
Collector Peshawar	Gohar Khan		0300-5963979

LIST OF TELEPHONE DIRECTORY OF CHIEF ENGINEER (NORTH) IRRIGATION

Designation	Name	Office No.	Cell No.
Chief Engineer (North)	Mujahid Saeed	9212123	0333-9101017
S.E (H/Qtrs.) North		9212113	
Technical Officer		9222719	
S.E Mardan	Nawab Ali	0937-9230194	0315-905774 – 0300-8582071
XEN Mardan	Javid Iqbal	0937-9230195	0302-4478228
XEN Malakand	Aftab Ahmad	0932-410492	0300-5877907
SE Swat		0946-9240164	
XEN Swat	Ghulam Ishaq	0946-9240165	0308-8885566
XEN Dir	Jawad Khan	0945-9250068	0346-9577518
XEN Chitral	Ali Ahmad	0943-412641	0344-9709816
SE Swabi	Noor Kamal	0938-224204	0300-5840064
XEN Swabi-I	Sajjad Ahmad	0938-530484	0345-9359728
XEN Swabi-II	Sardar Zafar	0938-221392	0300-5689899
XEN Abbottabad	S. Shaukat Shah	0992-9310246	0300-5623304

ANNEXURE 6: DISTRICT EMERGENCY CONTROL ROOM CONTACT LIST

Peshawar Division Emergency Control Room Contacts			
Peshawar District		091-9211338	
Charsadda District	091-9220024	091-9220021	
DENGUE CONTROL ROOM PESHAWAR	9210851		
Nowshera District	0923-9220099	0923-9220098	
Malakand Division Emergency Control Room Contacts			
Buner District	0939-510450		Abdul Salam
Shangla District	0996-850005	0996-850008	
Swat District	0946-9240008	0946-9240338	0946-9240339
Chitral District	0943-412519	0943-413858	
Dir Lower District	0945-9250029	0945-9250002/1	0333-9327929 Obaid
Dir Upper District	0944-880104	0333-9864338	
Malakand District	0932-414880		
Hazara Division Emergency Control Room Contacts			
Mansehra	0997-300115	0311-5539346	
Abbottabad District	0992-9310200	0992-9310464	
Haripur District	0995-611149	0995-614115	
Battagram District	0997-310136	0997-310071	
Kohistan District	0998-4070002	0998-407193	0998-407029
Mardan Division Emergency Control Room Contacts			
Mardan District	0937-9230701	Rescue 1122	0937-9230770/71
Swabi District	0938-221300	0938-221505	
Kohat Division Emergency Control Room Contacts			
Kohat District	091-9260304	0922-9260268	
Hangu District	0925-623968	0925-621175	
Karak District	0927-210825	0927-210600	
D.I.Khan Division Emergency Control Room Contacts			
D.I.Khan District	(DC) 9280116	(AC) 9280117	0342-9479768 Liaquat Laghari
Tank District	(DC) 0963-511326	(AC) 0963-512290	
Bannu Division Emergency Control Room Contacts			
Bannu District	0928-9270032	0928-9270039	0333-5365275 Sharafat
lakki Marwat District	0969-538330	(AC) 0969-510548	0334-8651652 Sabir

ANNEXURE 7: PROVINCIAL EMERGENCY OPERATION CENTRE (PEOC) IN PDMA

Incharge Name	Telephone Number	Fax Number
Mr. Fahad Tahir	091-9213845	091-9214025
	091-9213867	
	091-9223662	
	091-9212059	
	091-5274625	
	091-5274339	
	1700	

ANNEXURE 8: PDMA CONTACT LIST

Provincial Disaster Management Authority Peshawar						
Ph: (091) 9213867, 9213959, 9211854 Fax: (091) 9214025						
Relief, Rehabilitation & Settlement Department						
S #	Designation	Name	Office No	Mobile No	Intercom	Email Address
1	Secretary	Mr. Zulfiqar Ali Shah	091-9212058		222	secretary@pdma.gov.pk
2	PS to Secretary	Mr. Sher Nawab	091-9212058	0336-9112105	119	snawab2009@gmail.com
3	Addl: Secretary	Mr. Barkat Ullah	091-9213250	0335-9961600	139	barkatullah2@gmail.com
4	Deputy Secretary	Mr. Fazal Akbar	091-9223641	0345-9003428	132	fazalakbar50@yahoo.com
5	Section Officer(Estt)	Mr. Obaid Ullah	091-9223639	0333-9327929	107	sectionofficerpdma@gmail.com
6	Section Officer(Admn)	Mr. Muhammad Islam	091-9223640	0334-9173298	115	-
7	Planning Staff	Mr. Ihsan	091-9213959		229	-
Provincial Disaster Management Authority						
1	Director General	Mr. Motasim Billah Shah	091-9213855	0303-8955955	105	dg@pdma.gov.pk
2	Director HR & Administration		091-9211805		110	director.hr@pdma.gov.pk
3	Director (Relief, Ops & Coord)	Mr. Iftikhar Ahmed	091-9213890	0333-9399925	120	director.relief@pdma.gov.pk
4	Deputy Director(Relief, Ops & Coord)		091-9213250		171	dd.relief@pdma.gov.pk
5	Deputy Director (A&F)	Mian Adeel ud Deen	091-9213959	0333-9154366	141	adeeluddinmian@hotmail.com
6	Deputy Director (O&C)		091-9213959		137	ddoc@pdma.gov.pk
7	Deputy Director (T&A)	Mr. Shakeel Khan	091-9213959	0348-9290244	145	dd.mis@pdma.gov.pk
8	Deputy Director(Procurement)	Mr. Muhammad Ilyas	091-9213959	0334-9024113	130	dd.porurement@pdma.gov.pk
9	Deputy Director (M&E)	Mr. Askar Khan	091-9213959	0300-9156909	121	-
10	Deputy Director (MIS)	Mr. Waqas Elahi	091-9213959	0333-9399840	400	-
11	Assistant Director (Estab)		091-9213959		113	ad.establishment@pdma.gov.pk
12	Assistant Director (DRM-I)	Mr. Tajdar Khan	091-9213959	0345-9045841	116	ad.drm@pdma.gov.pk tajdar@pdma.gov.pk
13	Assistant Director (Warehouse)		091-9213959			ad.warehouse@pdma.gov.pk
14	Assistant Director (Procurement)	Mr. Qasim	091-9213959	0345-9391393		ad.procurement@pdma.gov.pk
15	Assistant Director (MIS)	Mr. Ishfaq Ahmed	091-9213959	0321-9010438	127	ashfaq@pdma.gov.pk
16	Incharge PEOC	Mr. Fahad Tahir	091-9213959	0333-9844665, 03119281272	127	faadytahir@gmail.com
17	Assistant Director (B&R)		091-9213959		141	ad.br@pdma.gov.pk
18	Assistant Director (Admin)	Mr. Qasim	091-9212060	0345-9391393	111	ad.admin@pdma.gov.pk
19	Assistant Director (Relief)	Ms. Rukhsana Jabeen	091-9213959	0343-9859238	133	rukhsanajabin@yahoo.com
20	Assistant Director (Finance)	Mr. Abid Khan	091-9213959	0333-9323266	102	abidalipdama@gmail.com
21	Assistant Director (Internal Audit)	Mr. Muhammad Kashif	091-9213959	0321-9169636	115	kashifmuhammad5@gmail.com
22	Assistant Director (O&C-I)	Ms. Fozia Naz	091-9213959	0313-9599625	140	ad.operation@pdma.gov.pk
23	Assistant Director (M&E/LIT)	Mr. Shahid Gul	091-9213959	0321-5085092	123	-
	Assistant Director (T&A)	Ms. Sabahat	091-9213959		147	-
24	Focal Person Child Protection	Ms. Zainab Qaiser Khan	091-9213959	0343-5544681	117	cpcoordinator@pdma.gov.pk
25	Focal Person Care International	Ms. Uzma Elahi	091-9213959	0333-7192124	147	Uzmielahi@gmail.com

27	PA to DG PDMA	Mr. Tila Muhammad	091-9213867	0333-9101485	106	-
28	PA to Director HR		091-9213250			-
29	PA to Director Relief	Mr. Jehangir Khan	091-9213890	0340-9810246	112	-
30	PA to AD Relief	Mr. Ijaz Ul Hassan	091-9213959	0333-3000198	123	-
31	PA to D-Director Relief	Mr. Tariq Khattak	091-9213250	0313-9349311		-
32	PA to AD (O&C-I)	Mr. Azmat Ali	091-9213890	0333-9717884	279	azmy655@gmail.com
33	PA to D-Director(Procurement)	Mr. Saddat	091-9213959	0301-8884204		-
34	Care Taker	Mr. Nadeem Khan	091-9213959	0333-9396336	221	nadeemkhansc@gmail.com
Provincial Reconstruction, Rehabilitation and Settlement Authority						
1	Program Manager	Mr. Sajid Imran	091-9216221	0300-8582395	Fax-9216212	pm.parrsa@pdma.gov.pk
2	Chief Planning Officer	Mr. Waseem Kundi	091-9216221	0332-9126212	Fax-9216212	waseemkundi@pdma.gov.pk
3	Administrator	Mr. Yasir Nisar	091-9216221	0321-5778404	Fax-9216212	adminparrsa@pdma.gov.pk
4	Finance Manager	Mr. Hayat Ullah	091-9216221	0333-1456302	Fax-9216212	-
5	Media Coordinator	Mr. Taimur Ali	091-9213867	0346-4081890	109	mc.parrsa@pdma.gov.pk
6	Chief IT/Media	Mr. Touseef Ur Rehman	091-9213959	0333-9127728	118	tauseef@pdma.gov.pk
7	Project Coordinator	Mr. Qaiser Khan Khattak	091-9213867	0333-9603773	128	kaisarktk@yahoo.com
Reporting Officers						
1	REPORTING STAFF	Mr. Salman Mulk	091-9213867	3349023996		-
2	REPORTING STAFF	Mr. Maqsood Anwar	091-9213867	3459052824		-
3	REPORTING STAFF	Mr. M.Umer Khan	091-9213867	3459373099		-
4	REPORTING STAFF	Mr. Manzoor Abdullah	091-9213867	3355510095		-
5	REPORTING STAFF	Mr. Muzakir Shah	091-9213867	3459500474		-

ANNEXURE 9: HEALTH DEPARTMENT CONTACT LIST

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. Aqeel Bangash	0938/221267	03339194544
MS Nowshera	Dr. Mohd. Arshad	0923/9220023	0345/2767652
MS Charsadda	Dr. Saeed Ahmad Dr. Jamal Akbar DMs	9220157	03339611020
MS DHQ Kohat MS LMH Kohat	Dr. Rahim Khattak Dr. Gul-E-Rana	0922/513250 0922/510381	0300-9157044 0300/5980065
MS Karak	Dr. Fakhre Alam	0927/211213-15	03339714033
M.S Hangu	Dr. Akbar Jan	0925/621508	0333/9988051
MS DHQ Bannu MS Women & Children Hospital.	Dr. Fayyaz Ud Din Dr. Nekmat Ullah	0928/611312 0928/610212, 610312 0928/9270005	03329066110 0335/9749704
MS DHQ Lakki MS City Hospital	Dr. Essa Khan Dr. Ghulam Ali	0969/538008 0969/512349, 510349	03059001715 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	

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 DY: DHO	Dr.Gulman shah	0923/580759 0315-9880680	03350951925
DHO Charsadda Deputy DHO	Dr. Naik Nawaz Dr.Fazal Rabi	9220158/ FAX 9220148	03339207237 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	

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	Dr.	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.	Dr.	0946/730889-98	
MS		-do-	
Prof Noor Ali Aman	Dearn KMC Peshawar	9222162	03339131322
Dr. Rehman	TRF		03339101320
Prof Hakeem Afridi	Forensic Medicine	9221392	03339131334

TELEPHONE NUMBERS OF OFFICERS OF HEALTH DEPARTMENT

Designation	Office
Minister Health PS to M.H.	9223603 -Do-
Secretary Health PS to Secy:Health PA To Secy Health q	9210342 102 9210572 124
Spl. Secy Health PS to SSH	9210870 103
Addl:Secy: (Estt) PA to A.S	104 9210880
Addl:Secy (Dev) PA to AS (Dev)	105 9212073
Dy.Secretary-1	106 9210575
Dy.Secretary-II	108 9210407
Dy Secretary-III- Budget.	9210863
D.S (s)	109 9213840
Legal Advisor	107 9210573
S.O(General)	110 9210863
SO(Health-1) Superintendent	113
SO(Health-II)	114
SO(Health-III)	115
SO(Health-IV) Steno Assistant	116
SO(Health-V) Steno.	117
SO(Drugs)	9211282
SO(Budget-1) Assistant	122
SO(Budget-II)	123
SO(Lit:1) Assistant	120
SO(Litigation-II) Steno	121
SO(Coordination)	118
SO(Secret) Assistant Stenographer	119
CPO HEALTH	9210862
Dy CPO	
SPO-I	9210890

SPO-III	9213461
P O-1	9211486
PO-II	9211485
PO-III	9210890.
PO-IV	9223525
PO-V	9211487
Assistant	-do-
Accountant	9210862
Deputy Director IT	124
Assistant Director	9211814
Comp:Operator	-do-
Internal Audit Cell	
DR. SHAHEEN AFRIDI	

ANNEXURE 10: DISTRIBUTION OF NECESSARY NFIs

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)

ANNEXURE 11: APPROVED NFI AND FI STANDARDS FOOD ITEMS

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

ANNEXURE 12: 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

ANNEXURE 13: 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.

ANNEXURE 14: 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)

ANNEXURE 15: 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.

ANNEXURE 16: MACHINERY AND RESCUE ITEM'S STOCK AVAILABLE WITH DISTRICTS

S.No	Districts	Dozers	Tractors	Dumpers/ loaders	OBM/Boats	Ambulances	Life Jackets	Generators	Search Lights	Sand Bags	De-Watering Pumps	Life Rings	Waikie Talkie	Boiler	Excavators	Road rollers	Ropes	Rubber tubes	Fire extinguisher	Trolleys
1	Peshawar	1	26	1	15	29	250	6	50		8	10	30							
2	Mardan		7		7	43	20	7	7		21		30							
3	Nowshera				4	5	12	4	5		2		10							
4	Abbottabad	2	5		1	5	7	2	5		1	2	12						3	12
5	D.I.khan				9	4	26	5	11		8	2	12							
6	Swat		13	4	7	4	15	6	7			2	12							
7	Haripur	2	11			4	2	1	4				3							11
8	Charsadda				6	2	69	3	8	150	13	2								
9	Kohat		15	2	27	2	55	2	9	300	7	1	3							
10	Chitral	29	8		1	2	6	2	6			2	2							
11	Dir Lower			1				5	4						1					
12	Dir Upper		5			24														1
13	Buner	2	7	1											3					7
14	Torghar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Mansehra	6	4																	
16	Shangla	4	2			10														
17	Bannu	5	13			8	50	5			4								2	
18	Hangu		4			3	33	1			1									
19	Tank	2	5					4			5									2
20	Karak	3	3	3				6			10	9								4
21	Kohistan Upper																			
22	Kohistan Lower																			
23	Malakand		4												21	1				
24	Battagram		9			4	20		1										2	8
25	Swabi		27	1				3			15									6
26	Lakki Marwat		6			3	100													
Total		19	94	13	77	103	495	53	112	300	87	21	114		22	1			7	27

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			0302-	General Secretary (M)
			Malang Shah	Abdullah Shah	2921886,	
					0301-8825921	
11	Banda Sheikh Ismail	Muhib Banda	Arbab Ali Akbar	Arbab Noor Hussain		Chairperson
					0313-7584000	
12	Banda Sheikh Ismail	Muhib Banda				General Secretary (M)
			Zakir Ullah	Shakir Ullah	0300-9363561	
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			0302-	Chairperson
			Ahmad Khan	Abdul Razik	8810690,	
					0302-5775556	
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				Chairperson
			Arshid Khan	Sahar Gul	0307-8091408	
32	Sheikh Abdul Ghafor	Aman Garh				General Secretary (M)
			Anwar Ali	Khan Kheil	0300-9365404	
33	Adam Abad	Aza Khel Payan				Chairperson
			Israim Khan	Ibrahim Khan	0310-9769238	

34	Adam Abad	Aza Kheil Payan				General Secretary (M)
			Kifayat ullah	Zaka Ullah	0312-5161804	
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)

Resource Mapping of Rescue 1122 District Emergency Centers

S.No	Rescue 1122 Center (Districts)	Type of Equipment																		
		Dozers	Tractors	Dumpers	Boats (All Types)						Ambulances	Life Jackets	Generators (All Types)	Search Lights	Sand Bags	De- Watering Pumps (All Types)	Life Rings	Walkie Talkie	Boiler	
					OBM 15 HP	OBM 25 HP	OBM 30 HP	OBM 40 HP	OBM 45 HP	OBM 56 HP	OBM 60 HP									
1	Peshawar			1	5			5			5	29	250	01 50KV ,04 Small	50		5	10	30	
2	Mardan				3							15	20	7	7		2		30	
3	Nowshera				1	1		2				5	12	4	5		2		10	
4	Abottabbad				1							5	7	2	5			2	12	
5	DI khan				1	1		2		1		4	16	5	11			2	12	
6	Swat				1	1		2				4	15	6	7			2	12	
7	Haripur											2	2	1	4				3	
8	Charsadda				1	1		2				2	6	3	3		1	2		
9	Kohat				1							2	5	2	9			1	3	
10	Chitral				1							2	6	2	6			2	2	
Total				1	15	4		13		1	5	70	339	32	107		10	21	114	

ANNEXURE 17: 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	FR 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 Agency	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	Lucky 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 Agency	0310-9623262
24	Muhammad Kamil Afridi	Azmat Khan	BS	6th	Khyber Agency	0340-9176691
25	Jawad Azhar	Azhar Khan	MSc	5th	Peshawar	0332-9141019
26	Haq Nawaz	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 Agency	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 Agency	0331-9898258



**Provincial Disaster Management Authority
Government of Khyber Pakhtunkhwa**

Government of Khyber Pakhtunkhwa, Civil Secretariat,
Peshawar, Pakistan

Ph: (091) 9213867, 9211854

Fax: (091) 9214025

 www.pdma.gov.pk  [pdmakpk](https://twitter.com/pdmakpk)  [pdmamediacell](https://facebook.com/pdmamediacell)