

MONSOON CONTINGENCY PLAN 2017



Provincial Disaster Management Authority
Government of Khyber Pakhtunkhwa



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2017



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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
OBFs	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 Programme
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 2017 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 2017.

CHAPTER-1

MONSOON CONTINGENCY PLAN 2017

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 alongwith 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 D.I 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 986 UCs. The total number of Mouzas/villages is 7335 as per 1998 census.

Indus and Kabul are the two major river systems in Khyber Pakhtunkhwa. The Indus River forms the boundary with Punjab and passes from Attock to Dera Ismail Khan in the south, while River Kabul flows down from Afghanistan to join the Indus River. Rainfall in Khyber Pakhtunkhwa generally occurs in two distinct crop-growing seasons: Rabbi (winters, December – March) and Kharif (summers, June – September). Normally the monsoon arrives in the first or second week of June. 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. Chowdhan Zam
3. Jindi River	14. Sheikh Haider Zam
4. Khyali River	15. Kunhar River
5. Kalpani Nullah	16. Siran River
6. Panjkora River	

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	9 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 2017)

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	Upper Kohistan	High	Yes	Yes	No	Yes	Yes	Yes
6	Lower Kohistan	High	Yes	Yes	No	Yes	Yes	Yes
7	Nowshera	High	Yes	Yes	Yes	Yes	No	No
8	Swat	High	Yes	Yes	No	Yes	Yes	Yes

S/N	DISTRICT	FLOOD HAZARD	RIVERINE FLOOD	FLASH FLOOD	URBAN FLOOD	LAND SLIDE	AVALANCHE	GLOF
9	Tank	High	Yes	Yes	No	No	No	No
10	Upper Dir	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	Lower Dir	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	Abbotabad	Low	No	Yes	No	Yes	No	No
20	Bannu	Low	Yes	No	No	No	No	No
21	Batagram	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	LakkiMarwat	Low	Yes	No	No	No	No	No

FLOOD VULNERABILITY CATEGORIZATION OF THE DISTRICTS

Based on the data of super flood 2010 and past experiences in subsequent years of 2011,12,13,14 and 15, PDMA has categorized the districts based on their vulnerability for the year 2017 as under.

MONSOON 2010			MONSOON 2017		
MOST VULNERABLE	MODERATE VULNERABLE	LOW VULNERABLE	MOST VULNERABLE	MODERATE VULNERABLE	LOW VULNERABLE
Charsada	Bannu	Bunair	Peshawar	Lakki Marwat	Batagram
D.I.Khan	Batagram	Hangu	Charsadda	Karak	Tor Ghar
Dir Lower	Chitral	Haripur	Nowshera	Haripur	Abbottabad
Dir Upper	Karak	Mardan	DI Khan	Kohat	Manshera
Nowshera	Kohat	Abbottabad	Chitral	Malakand	Mardan
Peshawar	Lakki	Tor Ghar	Swat	Tank	Hangu
Shangla	Malakand	Kohistan	Shangla	Bannu	Buner
Swat	Mansehra		Dir Lower		Swabi
Tank	Swabi		Dir Upper		
			Kohistan (Upper & Lower)		-

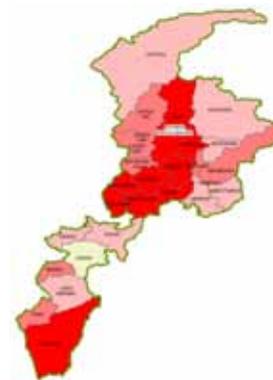
Below is the glimpse of vulnerable Union Councils and population at risk, as mapped in the district contingency plans. (based on information received from DDMOs)

S/N	DISTRICT	NO. OF UCS	AT RISK POPULATION
1	Abbottabad	2	250
2	Battagram	8	142250
3	Buner	3	37454
4	Bannu	21	305037
5	Charsadda	24	527434
6	Chitral	5	277321
7	D.I Khan	12	62715
8	Hangu	6	90648
9	Haripur	7	155299
10	Karak	12	NA
11	Kohat	11	227301
12	Kohistan	19	225765
13	Lakki Marwat	11	13890
14	Dir Lower	7	145204
15	Malakand	5	192000
16	Mansehra	18	306321
17	Mardan	5	96216
18	Nowshera	28	450584
19	Peshawar	24	858098
20	Shangla	19	291062
21	Swabi	10	196000
22	Swat	45	1015198
23	Tank	11	169218
24	Torghar	9	NA
25	Upper Dir	5	154569
Total		327	5939834

1.3 LESSONS LEARNT FROM PREVIOUS FLOODS

1.3.1 INADEQUATE FLOOD PROTECTION ARRANGEMENTS

Except for protection arrangements to protect DI 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	LENGHT (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.

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 2011-12.

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 PROJECTION FOR MONSOON 2017 (JUNE - SEPTEMBER 2017)

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 alert for information and necessary action.

As per weather advisory of PMD, "keeping in view the global climatic conditions and Sea Surface Temperature (SST) of all three oceans and low pressure systems of central India and south Pakistan, trade winds and upper atmospheric winds of 200 millibars, it is supposed that monsoon rains will remain normal initially, and a little below normal during the season over north Pakistan. However, few weather systems with erratic behavior cannot be ruled out during the season".

2.2 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:

- 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.

Furthermore, a new feature of matrix ranking of districts has been developed in coordination with Centre for Disaster Preparedness & Mitigation, University of Peshawar, based on indicators i-e likelihood of flood event, impact on population and livelihood, physical infrastructure and accessibility to the area. District ranked high on the matrix will be allocated resources accordingly in addition to the baseline data of caseloads from 2010 floods.

**MATRIX RANKING EXERCISE FOR DISTRICT WISE RESOURCE
ALLOCATION FOR MONSOON SEASON 2017**

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

Name of district	A Likelihood of flood event	B Impact on population	C Impact on livelihood	D Impact on physical infrastructure	E Accessibility of the area	Risk ranking of a district (A,b,c,d,e)
	0=None 1- Rare 2- Occasional 3- Frequent event	0-No impact 1-Limited 2-Substantial 3-Major impact	0=No impact 1-Limited 2-Substantial 3-Major impact	0=No impact 1-Limited 2-Substantial 3-Major impact	0=Very close 1-Close 2-Medium 3-Remote	
Abbottabad	2	1	1	1	1	6
Bannu	1	1	1	1	1	5
Battagram	1	1	1	1	1	5
Buner	1	1	1	1	1	5
Charsadda	3	3	3	3	2	14
Chitral	3	3	3	3	3	15
D.I.Khan	3	2	2	2	3	12
Hangu	1	1	1	1	1	5
Haripur	0	0	0	0	0	0
Karak	2	1	1	1	1	6
Kohat	2	1	1	1	1	6
Kohistan	3	2	2	3	3	13
Laki Marwat	2	1	1	1	1	6
Lower Dir	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	3	15
Peshawar	3	2	2	2	2	11
Shangla	3	2	2	3	2	12
Swabi	1	1	1	1	1	5
Swat	3	2	2	2	2	11
Tank	3	2	2	1	2	10
Upper Dir	3	2	2	3	3	13
Tor Ghar	1	1	1	1	1	5

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

2.2.1 THE HIGH IMPACT SCENARIO

The High Impact scenario corresponds to Floods 2010 with similar caseloads though its realization seems improbable as per PMD PMD's 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 2017

S/N	Districts	Anticipated Affected House Hold (HH)	FOOD		Shelter and NFIs							WASH	
			3 Months FOOD HH	Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kits	Jerry Cane	Buckets	Tarpaulin	Stoves	Drinking water Population
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	
			3 Months FOOD HH		Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kits	Jerry Cane	Buckets	Tarpaulin	Stoves	Drinking water Population
12	Kohistan	8526	173418840	3211	3211	4817	9634	9634	19269	19269	9634	9634	9634	57806
13	Lakki Marwat	5729	109309320	2024	2024	3036	6073	6073	12145	12145	6073	6073	6073	36436
14	Lower Dir	17394	347532120	6436	6436	9654	19307	19307	38615	38615	19307	19307	19307	115844
15	Malakand	7041	140679180	2605	2605	3908	7816	7816	15631	15631	7816	7816	7816	46893
16	Mansehra	4193	81511920	1509	1509	2264	4528	4528	9057	9057	4528	4528	4528	27171
17	Mardan	5643	106652700	1975	1975	2963	5925	5925	11850	11850	5925	5925	5925	35551
18	Nowshera	8670	179469000	3324	3324	4985	9971	9971	19941	19941	9971	9971	9971	59823
19	Peshawar	64220	1283115600	23761	23761	35642	71284	71284	142568	142568	71284	71284	71284	427705
20	Shangla	39099	788235840	14597	14597	21895	43791	43791	87582	87582	43791	43791	43791	262745
21	Swabi	8992	169948800	3147	3147	4721	9442	9442	18883	18883	9442	9442	9442	56650
22	Swat	1646	32887080	609	609	914	1827	1827	3654	3654	1827	1827	1827	10962
23	Tank	7523	148955400	2758	2758	4138	8275	8275	16551	16551	8275	8275	8275	49652
24	Upper Dir	9504	193311360	3580	3580	5370	10740	10740	21479	21479	10740	10740	10740	64437
25	Torghar	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		363766	7117547760	131806	131806	197710	395419	395419	790839	790839	395419	395419	395419	2372516

2.2.2 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 2017

S/N	Districts	Anticipated Affected House Hold (HH)	FOOD	Shelter and NFIs							WASH		
			3 Months FOOD HH	Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kits	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		
			3 Months FOOD HH		Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kits	Jerry Cane	Buckets	Tarpaulin	Stoves	Drinking water Population	
12	Kohistan	2843	57806280		1070	1070	1606	3211	3211	6423	6423	3211	3211	3211	19269
13	Lakki Marwat	1909	36436440		675	675	1012	2024	2024	4048	4048	2024	2024	2024	12145
14	Lower Dir	5798	115844040		2145	2145	3218	6436	6436	12872	12872	6436	6436	6436	38615
15	Malakand	2347	46893060		868	868	1303	2605	2605	5210	5210	2605	2605	2605	15631
16	Mansehra	1398	27170640		503	503	755	1509	1509	3019	3019	1509	1509	1509	9057
17	Mardan	1881	35550900		658	658	988	1975	1975	3950	3950	1975	1975	1975	11850
18	Nowshera	2890	59823000		1108	1108	1662	3324	3324	6647	6647	3324	3324	3324	19941
19	Peshawar	21407	427705200		7920	7920	11881	23761	23761	47523	47523	23761	23761	23761	142568
20	Shangla	13032	262745280		4866	4866	7298	14597	14597	29194	29194	14597	14597	14597	87582
21	Swabi	2998	56649600		1049	1049	1574	3147	3147	6294	6294	3147	3147	3147	18883
22	Swat	548	10962360		203	203	305	609	609	1218	1218	609	609	609	3654
23	Tank	2508	49651800		919	919	1379	2758	2758	5517	5517	2758	2758	2758	16551
24	Upper Dir	3168	64437120		1193	1193	1790	3580	3580	7160	7160	3580	3580	3580	21479
25	Torghar	0	0		0	0	0	0	0	0	0	0	0	0	0
Total		121258	2372515920		43935	43935	65903	131806	131806	263613	263613	131806	131806	131806	790839

2.2.3 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 normal. 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 2017

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

S/N	Districts	Anticipated Affected House Hold (HH)	FOOD		Shelter and NFIs								WASH	
			3 Months FOOD HH		Tents	Plastic Sheet	Blanket	Kitchen Set	Hygiene Kits	Jerry Cane	Buckets	Tarpaulin	Stoves	Drinking water Population
12	Kohistan	948	19268760	357	357	535	1070	1070	2141	2141	1070	1070	1070	6423
13	Lakki Marwat	637	12145480	225	225	337	675	675	1349	1349	675	675	675	4048
14	Lower Dir	1933	38614680	715	715	1073	2145	2145	4291	4291	2145	2145	2145	12872
15	Malakand	782	15631020	289	289	434	868	868	1737	1737	868	868	868	5210
16	Mansehra	466	9056880	168	168	252	503	503	1006	1006	503	503	503	3019
17	Mardan	627	11850300	219	219	329	658	658	1317	1317	658	658	658	3950
18	Nowshera	963	19941000	369	369	554	1108	1108	2216	2216	1108	1108	1108	6647
19	Peshawar	7136	142568400	2640	2640	3960	7920	7920	15841	15841	7920	7920	7920	47523
20	Shangla	4344	87581760	1622	1622	2433	4866	4866	9731	9731	4866	4866	4866	29194
21	Swabi	999	18883200	350	350	525	1049	1049	2098	2098	1049	1049	1049	6294
22	Swat	183	3654120	68	68	102	203	203	406	406	203	203	203	1218
23	Tank	836	16550600	306	306	460	919	919	1839	1839	919	919	919	5517
24	Upper Dir	1056	21479040	398	398	597	1193	1193	2387	2387	1193	1193	1193	7160
25	Torghar	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		40421	790838640	14645	14645	21968	43935	43935	87871	87871	43935	43935	43935	263613

2.3 DISTRICT-WISE RELIEF CASELOAD

(BASED ON 2010 DATA, SUPPLEMENTED BY SCORE FROM MATRIX INDEX) FOR MONSOON 2017 (JUNE - SEPTEMBER 2017)

S/N	Districts	Affected HH High Impact floods (Assumed for 2017)	Affected HH Medium impact floods (Assumed for 2017)	Affected HH Low impact Floods (Assumed for 2017)
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	Lower Dir	17394	5798	1933
15	Malakand	7041	2344	782
16	Mansehra	4193	1399	466
17	Mardan	5643	1881	627
18	Nowshera ¹	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	Upper Dir	9504	3168	1056
25	Torghar	0	0	0
Total		363766	121258	40421

2.4 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

2.5 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 WAPSAK	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 KHAWAZA KHELHA	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

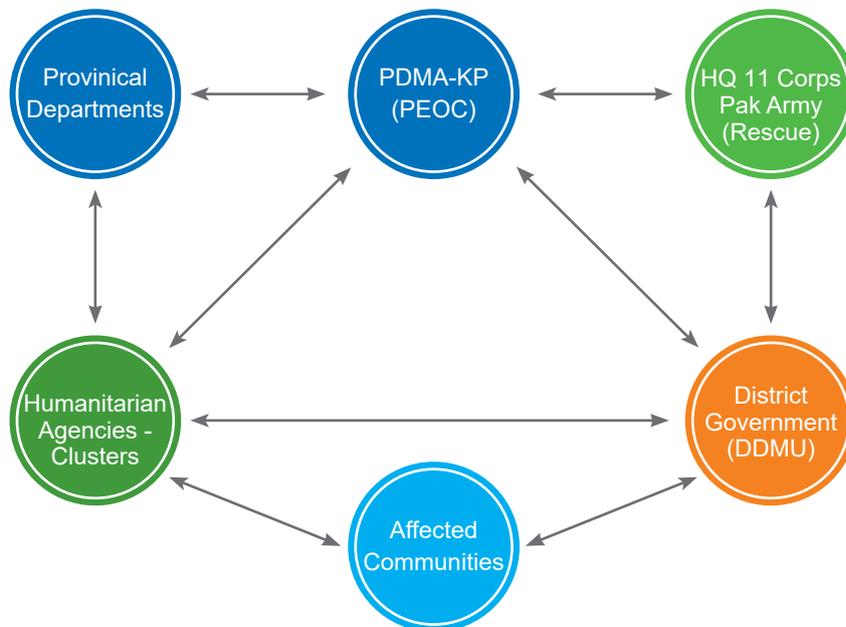
S/N	NAME OF RIVER, KHAWARS & NULLAH	FLOW STATUS							DATE
		LOW	MED	HIGH	V.HIGH	HISTORICAL			
18	SIRAN River at Daryal	5000	15000	30000	45000	55181		1992	
19	HARO River at Jabori	5000	8000	25000	40000	82876		1992	
20	KUNHAR River at Balakot	10000	20000	40000	55000	92000		1992	
21	GAMBILA River at Gambila Lakki	5000	15000	25000	40000	64024		7/4/2003	
22	BARA River at Chamikani	8000	17000	25000	35000	48000		8/12/1970	
23	KURRAM River at K. garhi HW	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 Rajpota	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	

CHAPTER-3

PROVINCIAL PREPAREDNESS AND
PLANNING-COORDINATION MECHANISM

3.1 COORDINATION MECHANISM FOR MONSOON 2017

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.



3.2 CONSULTATIVE MEETINGS

In order to enhance preparedness level for coping with flood disaster, PDMA has conducted a series of consultative meetings with 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.

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.

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 is struggling hard to ensure timely procurement of major NFIs in bulk. 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 102 Boats along with other essential rescue equipment have been provided to Pak-Army since 2010 and onwards. The procurement of updated 50 OBMs of 40 HP and 6 fiber glass boats has recently been completed and have been handed over to Pak-Army.

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	PICKAXES	SHAWELS	GLOVES (LEATHER)	FIRE BUCKETS	HELMET	ELECTRIC SEARCH LIGHT	MANILA ROPE	RUBBER TUBE	LIFE JACKETS
1	Charsadda	42	42	85	42	85	42	17	42	34
2	Nowshera	42	42	85	42	85	42	17	42	34
3	Swat	42	42	85	42	85	42	17	42	34
4	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 PROVISION TO DISTRICTS AND OTHER DEPARTMENTS

In Monsoon season power generators play a pivotal role in running dewatering pumps and specifically in evacuation/relief camps. PDMA has provided Generators to various districts and key stakeholder departments/offices as per detail given below:

S/N	District Name	Generators provided
1	Nowshehra	13
2	Swat	13
3	Shangla	11
4	Tank	10
5	DI Khan	10
6	Dir Upper	10
7	Dir Lower	10
8	Bannu	09
9	Chitral	18
10	Malakand	04
11	Peshawar	11
12	Tor Ghar	06
13	Kohistan	13
14	Rescue 1122	10
15	FDMA	02
16	Director Civil Defense	01
17	NADRA, HQ Peshawar	10
18	Camp Coordinator	03
19	PMU, PaRRSA Swat	02
Total		166

3.8 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. Based on the district resource mapping the corresponding caseloads were developed for 2016.

Detail of the district resource mapping is as follow.

3.9 RESCUE ITEMS STOCK HELD BY THE DISTRICTS

S/N	District	Pambula / Vehicle	Excavator	Dumper / loader	Tractor	Trolley	Road Ruler	Truck	Dozer	Boats	OBMs	Life Saving Jackets	Rubber Tube	Ropes	Search Lights	Fire Brigade / Extinguishers	Ladders	Water Tanks	Screw Driver Sets & Hammer	Life Rings	Walkie Talkie	Bailers	
1	Abbottabad	-	-	-	5	12	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Bannu	-	2	-	6	-	-	1	5	-	-	-	-	-	-	4	-	-	-	-	-	-	-
3	Battagram	-	-	-	2	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
4	Buner	-	-	1	1	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Charsadda	-	-	-	4	3	-	-	-	4	-	60	20	20	-	20	2	-	5	-	-	-	-
6	Chitral	-	-	5	3	1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	DIKhan	3	-	-	-	-	-	2	-	-	-	20	33	5	-	2	-	3	-	-	-	-	-
8	Dir Lower	-	1	1	-	-	-	-	1	-	-	50	10	15	20	-	-	-	-	-	-	-	-
9	Dir Upper	-	-	-	5	1	-	-	-	-	-	4	10	2	20	4	2	-	4	-	-	-	-
10	Hangu	-	-	-	4	-	-	-	-	-	-	40	40	210	36	3	1	-	200	-	-	-	-
11	Haripur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Karak	-	-	-	-	-	-	-	-	-	-	-	-	1	4	3	2	-	-	-	-	-	-
13	Kohat	8	29	28	28	28	-	-	-	-	-	50	6	2	5	12	7	-	-	-	-	-	-
14	Kohistan Upper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

S/N	District	Pambula / Vehicle	Excavator	Dumper / loader	Tractor	Trolley	Road Ruler	Truck	Dozer	Boats	OBMs	Life Saving Jackets	Rubber Tube	Ropes	Search Lights	Fire Brigade / Extinguishers	Ladders	Water Tanks	Screw Driver Sets & Hammer	Life Rings	Waikie Talkie	Bailers	
15	Kohistan Lower																						
16	Lakki Marwat	-	-	-	4	4	-	-	-	-	-	59	-	-	-	4	1	-	12	-	-	-	
17	Malakand	-	-	1	3	1	-	-	-	-	-	8	40	4	7	3	5	1	1	-	-	-	
18	Mansehra	-	8	-	4	4	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	97	
19	Mardan	30	-	9	7	7	-	-	-	1	-	-	2	-	-	13	-	-	-	-	-	-	
20	Nowshera				6	6				2		110	49	3	10	9	1	1					
21	Peshawar	16	8	3	23	23		1	10						1	9							
22	Shangla	12	11	3	14				4							5							
23	Swabi																						
24	Swat	23	-	-	-	-	-	-	-	5	-	170	3	2	8	3	-	-	1	-	-	-	
25	Tank	-	6	1	9	9	-	-	2	-	-	-	-	-	-	-	-	2	-	-	-	-	
26	Torghar	-	-	-	-	-	-	-	-	1	-	23	5	-	19	-	-	-	-	-	-	-	
	Total	84	44	53	128	101	5	25	23	23	594	218	264	264	130	96	14	14	223			97	

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

S/N	District	Tents/Quilts	Blankets	Mattresses/ Sleeping bags	Plastic		Jerry Cans/coolers	Buckets	Kitchen sets	Stoves	Hygiene Kits	Net Mosquitoes	Life Jackets /	Dewatering Pumps	Generators	Sand Bags
					Plastic	Sheets/ Tarpol										
1	Abbottabad	79/84	-	187	-	-	-	-	-	-	-	-	-	-	-	-
2	Bannu	50	-	-	-	-	-	-	-	-	-	50	1	5	-	-
3	Battagram	84	2000	200	-	-	-	-	500	-	-	-	-	-	-	-
4	Buner	180	2200	-	-	-	-	-	-	-	-	-	-	9	1	-
5	Charsadda	448	-	120	-	-	-	-	-	-	-	-	-	9	-	1500
6	Chitral	129	582	31	424	100	-	-	-	-	-	-	-	-	12	-
7	DIKhan	402	750	-	550	30	130	30	400	400	3	3	3	3	3	1000
8	Dir Lower	100	-	-	-	-	90	40	-	-	-	-	-	-	6	-
9	Dir Upper	40	-	5	-	6	-	3	-	-	3	98	-	-	-	-
10	Hangu	372	3400	-	1200	200	15	201	-	201	-	500	-	1	1	-
11	Haripur	7793	12905	-	18767	6368	-	10635	2639	12236	42770	-	-	-	-	-
12	Karak	105	139	-	-	10	-	-	-	188	9	-	-	-	-	-
13	Kohat	208	251	51	-	8	51	-	-	300	2	-	-	-	-	300
14	Kohistan Upper	189	945	100	100/398	378	-	189	-	189	-	6	-	-	-	-

S/N	District	Tents/Quilts	Blankets	Mattresses/ Sleeping bags	Plastic		Jerry Cans/coolers	Buckets	Kitchen sets	Stoves	Hygiene Kits	Net Mosquitoes	Life Jackets /	Dewatering Pumps	Generators	Sand Bags
					Sheets/ Tarpol											
15	Kohistan Lower	189/400	945	100	100/398	378	189	189	6							
16	Lakki Marwat	120	-	200	6	-	50	-	-	-	-	-	-	2	6	-
17	Malakand	140/270	9	-	6	65	40	-	-	-	-	1	-	2	4	-
18	Mansehra	170/535	1344	-	12126	5	-	-	-	5	-	-	-	-	-	-
19	Mardan	500		430										17		
20	Nowshera	120	-	-	9	-	80	4	-	-	-	190	-	11	4	100
21	Peshawar	-	-	-	-	-	-	-	-	-	-	-	-	7	1	-
22	Shangla	171	72	141	25	-	-	-	3	-	-	-	-	-	-	-
23	Swabi															
24	Swat	44/622	295	435					10			2		4	20	
25	Tank	443	-	-	-	-	-	-	-	-	-	-	-	4	-	-
26	Torghar	140	900	200	-	-	-	-	-	-	-	70	-	-	-	-
	Total	14127	24737	2200	33113	7494	329	11439	3160	12815	44531	9	72	60	2900	

NFIs to district Peshawar are provided from HRF Jalozaï.

3.11 RESCUE ITEMS NEEDS & GAPS OF DISTRICT

S/N	District	Ambulance/ Vehicle	Excavator	Loader/ Dumper/		Fire Brigade /extinguishers	Tractor	Trolley	Truck	Dozer	Boats	OBMs	Life Saving jackets	Rubber Tube	Ropes	Search Lights	Ladders	Water Tanks	Screw Driver Sets & Hammer	Life Rings	Walkie Talkie	Ballers	
				Leader	Dumper/																		
1	Abbottabad	-	-	4	-	3	3	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Bannu	-	4	-	10	5	5	5	5	3	5	10	50	100	-	-	50	200	50	100	2	50	50
3	Battagram	-	-	-	1	2	4	-	2	2	5	-	10	20	-	10	10	20	50	5	-	-	-
4	Bunier	-	-	3	-	4	4	4	4	3	5	-	500	1000	-	1000	200	500	500	50	29	50	50
5	Charsadda	-	-	6	50	8	3	4	10	20	20	20	200	250	50	350	25	300	25	100	8	-	-
6	Chitral	-	-	5	-	5	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	DIKhan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Dir Lower	-	5	4	-	-	4	-	-	4	4	4	50	100	15	250	10	50	10	-	-	-	-
9	Dir Upper	-	1	2	-	12	2	3	3	3	3	3	25	50	4	110	10	10	20	10	10	5	5
10	Hangu	-	4	-	5	10	10	-	-	-	-	-	50	40	10	550	10	20	10	-	-	-	-
11	Haripur	-	-	-	-	-	-	-	-	-	-	-	200	-	50	70	5	10	10	-	-	-	-
12	Karak	-	3	6	-	3	3	6	3	3	-	-	200	1000	10	1000	100	500	-	1000	10	-	-
13	Kohat	-	-	-	30	-	-	-	-	-	-	-	270	50	5	70	-	50	-	-	-	-	-
14	Kohistan Upper	-	-	4	-	4	4	4	4	4	4	-	100	100	-	200	100	100	100	-	-	-	-

S/N	District	Ambulance/ Vehicle	Excavator	Loader		Fire Brigade /extinguishers	Tractor	Trolley	Truck	Dozer	Boats	OBMs	Life Saving Jackets	Rubber Tube	Ropes	Search Lights	Ladders	Water Tanks	Screw Driver Sets & Hammer	Life Rings	Walkie Talkie	Ballers	
				Dumper/	Loader																		
15	Kohistan Lower				3	4	3	3	4	4	6		100	100	100	200	100	100	100	100			
16	Lakki Marwat																						
17	Malakand															6							
18	Mansehra		4						1														
19	Mardan										20	10	500	1500	200	50	15	200	50				
20	Nowshera		10		12	13	13									20	4						
21	Peshawar	2											5000	500	5000	800	10	50	100				
22	Shangla		6		4		5	5	4				50			750	20	50	100				
23	Swabi																						
24	Swat																						
25	Tank												100	100		100	50	50	100				
26	Torghar				3	3	3		3	1	2	20	20	10		50	10	100	10	10	10	5	
	Total	2	37	41	114	81	66	33	44	59	49	7425	4920	5344	5586	729	2310	1235	1275	69	110		

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

3.12 SUMMARY OF NFI'S NEEDS & GAPS IDENTIFIED BY DISTRICTS

S/N	District	Tents/Quilts		Mattresses	Plastic		Jerry Cans/coolers	Buckets	Kitchen sets	Stoves	Hygiene Kits	Net Mosquitoes	Dewatering Pumps	Generators	Blankets	Sand Bags
					Sheets/ Tarpaulin	Sleeping bags										
1	Abbottabad	300/220	120	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Bannu	500	500	150/200	200	500	500	100	1000	1000	1000	1000	10	10	500	500
3	Battagram	200	1000	500/1000	100	200	200	200	500	500	200	500	2	2	500	20
4	Buner	500	1000	1500/1500	1000	1500	2000	500	5000	500	5000	2000	15	15	500	3000
5	Charsadda	5000	5000	5000/2000	5000	5000	5000	5000	5000	5000	5000	10000	49	20	-	10000
6	Chitral	500	31	-	-	-	-	-	-	-	-	-	5	-	-	-
7	DIKhan															
8	Dir Lower	500	50	1000	1000	100	1000	1000	2000	1000	2000	1000	5	5		
9	Dir Upper	150	80	50/100	300	300	100	100	50	50	200	30	4	4	300	500
10	Hangu	1000	500	1000/500	400	400	500	500	400	400	500	500	4	4	-	-
11	Haripur	200	200	500/500	500	300	500	500	500	500	500	1000	5	5	-	-
12	Karak	1500	1000	1500/1000	2000	3000	5000	5000	5000	5000	5000	2500	10	6	2500	10000
13	Kohat	292	449	500	500	1000	199		2000	700	20					
14	Kohistan Upper	200	100	100/500	200	100	200	150	200	100	200	100	8	10	600	

S/N	District	Tents/Quilts		Mattresses	Plastic		Jerry Cans/coolers	Buckets	Kitchen sets	Stoves	Hygiene Kits	Net Mosquitoes	Dewatering Pumps	Generators	Blankets	Sand Bags
					Sheets/ Tarpaulin											
15	Kohistan Lower	200	100	100	100/500	200	100	200	150	200	100	5	6	600		
16	Lakki Marwat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Malakand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Mansehra	500/500	50	50	1100	100	-	297	-	10	-	10	-	3000	-	-
19	Mardan	500	500	500	1500/500	500	500	500	500	500	500	50	50	500	500	-
20	Nowshera	-	-	-	50	-	140	196	-	200	10	4	-	-	-	-
21	Peshawar	1000	5000	5000/5000	5000	5000	5000	5000	5000	1000	1000	50	50	10	500	-
22	Shangla	500	500	1000/500	1000	500	500	100	1000	1000	1000	10	10	2000	-	-
23	Swabi															
24	Swat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Tank	1000	1000	1000/1000	5000	1000	1000	1000	1000	5000	750	-	-	1000	-	-
26	Torghar	160	200	200	100	100	100	100	100	100	100	2	2	2	10	-
	Total	14922	17380	37550	22900	19240	22595	19247	29100	26790	258	109	12000	24030		

3.13 LIST OF NFI STOCK AVAILABLE WITH PDMA

S/N	ITEMS	QUANTITY
1	Tents Shelter Box (Tents)	5800 49
2	Kitchen Sets	5002
3	Jerry Can	9500
4	Plastic Buckets	5000
5	Plastic Mats	5853
6	Gas Cylinder	4711
7	Mosquito Nets	6121
8	Water Cooler	962
9	Fire Blankets	160
10	Transformers	15
11	Bricks	20000
12	Saw Cutter	52
13	Sleeping Bags	102
14	Life Jackets	379
15	Blankets	1035
16	Stoves	437
17	Folding Bed	236
18	Bed Sheet	1206 pcs
19	Gift Packs	4968
20	Crockery Tea Cups + Glasses	36 CTN
21	Ceiling Fan	422
22	China Small Boat	13
23	Cotton Metris	599
24	Generator	103
25	Prayer Mat	381
26	Quilts	19938
27	Room Air Cooler	34
28	Shovel Wooden	685
29	Pedestal Fan	205
30	Food Mat	255
31	Koica Silver Mats	46 CTN
32	Water Bags	1700
33	Water Purification Unit	01
34	Soap Dispensers	132
35	Electric Sprayer	187
36	Radio Sets	270
37	Jica Water Filters	10
38	Sand Bags (Empty)	2700

3.14 OVERVIEW OF NFIS 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. 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, Metrological 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 2017 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 2017 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 Defence 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. 36 – 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)

4.4 COMMUNICATION AND WORKS DEPARTMENT

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

4.5 HEALTH DEPARTMENT

- i. Establish a Health Emergency Preparedness and Response Cell- HEPR
- ii. Carry out detailed planning with district officials (EDOs) and formulate district level health plans for execution

- iii. Carry out need and gap analysis for medicines and required stocks
- iv. Availability of segregated health staff figures (No of female and no of male doctors)
- v. Coordinate with humanitarian agencies i.e. INGOs, NGOs and UN agencies to make up the short falls

4.6 FOOD DEPARTMENT

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

4.7 INFORMATION DEPARTMENT

- i. Establishment of a flood emergency control room/unit
- ii. Broadcast advance warnings to sensitize the public
- iii. Guide the public about the nearby safer places, routes and other precautionary measures
- iv. 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

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 equipments and machinaries
- 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 centres in coordination with education department

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 DC"s/ 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 centres in coordination with education department

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 centres in schools /colleges
- iv. Identification of all schools/ colleges earmarked for evacuation centres
- 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

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

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 centres.

4.14 CIVIL DEFENSE

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

4.15 EMERGENCY RESCUE SERVICE (RESCUE 1122)

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

4.16 PROVINCIAL POLICE

- i. Maintain law and order situation in the districts and assist district administration for an orderly evacuation if such situation arise
- ii. Facilitate DCs through Police Wireless network in case of communication failure of other networks.
- iii. 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)

- i. Establishment of Flood Emergency Control Cell
- ii. Provide reliable and in-time weather forecasts for Khyber Pakhtunkhwa and its catchment areas
- iii. 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

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

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)

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: COMMISSIONERS CONTACT LIST

Name	Division	Office	Fax	Mobile
	Bannu	0928-9270044	0928-9270041	
Dr. Akhtar Nazeer Warraich	D I Khan	0966-9280351	0966-9280352	0300-5866532
Muhammad Akbar Khan	Hazara	0992-9310111/9310222/9310444	0992-9310467	0333-4487989
Mr. Musarat Hussain	Kohat	0922-9260002	0922-9260105	0300-5615965
Capt [®] Usman Gul	Malakand	0946-9240225,0946-9240185	0946-9240229-178, 0946-9240223(house)	0300-9598383
Mr. Zakir Hussian Afridi	Mardan	0937-9230572-74	0937-9230578	
Dr. Fakhr-e-Alam	Peshawar	091- 9211334	091-9214085	0343-9008888

ANNEXURE 2: DEPUTY COMMISSIONERS CONTACT LIST

District	Name of Officer	Office	Residence	Fax	Mobile
Abbottabad	Capt. Rtd Aurangzeb Haider	0992-9310200	0992-9310204	0992-9310202	0333-5480 546
Bannu	Mr. Fazal Akbar	0928-9270032	0928-9270032	0928-9270079	0345-9003 428
Battagram	Sardar Asad Haroon	0997-310030/310136	0997-311421	0997-310051	0345-956 5235
Buner	Mr. Zarif ul Maani	0939-510450	0939-510454	0939-510427	0333-950 6649
Charsadda	Capt. Tahir Zafar Abbasi	091-9220021/9220024	091-9220024	091-9220021	0334-8514188
Chitral	Mr. Hamid Shahab Yousafzai	0943-412055/412519	0943-412519	0943-412421	0300-5733755
D.I.Khan	Mian Adil Iqbal	0966-9280116	0966-9280022	0966-9280110	0312-0595703
Dir Lower	Mr. Attau Rahman	0945-9250001/ 0945-9250003	0945-9250002	0945-9250001	0333-9611133
Dir Upper	Mr. Muhammad Usman	0944-880394	0944-880104	0944-881130	
Hangu	Mr. Ahsan Ullah khan	0925-621175	0925-623968	0925-620050	0300-5990819
Haripur	Mr. Tasleem khan	0995-613391	0995-611149	0995-615412	0300-5644558
Karak	Muhammad Abid Khan Wazir	0927-210825	0927-210600	0927-210925	0300-9597523
Kohat	Mr. Akmal Khan	0922-9260268	0922-9260031	0922-9260031	-
Kohistan Upper	Mr. Muhammad Asif	0998-407002	0998-407193	0998-407001	0301-5971237
Kohistan Lower	Mr. Khuda Bakhsh	0998-405091	0998-405113	0998-405092	0307-8058 631
Lakki Marwat	Mr. Bakhtiar khan	0969-538330-31	0969-538331	0969-538333	0345-4999977
Malakand	Syed Zafar Ali Shah	0932-414880	0932-411002	0932-413199	0332-5187886
Mansehra	Mr. Iqbal Hussain	0997-304148	0997-920174	0997-305513	0345-8822930
Mardan	Dr. Imran Hameed	0937-9230048	0937-9230477	0937-9230303	0300-9669334
Nowshera	Khawaja Muhammad Sikandar Zishan	0923-9220099/98	0923-9220098	0923-9220159	0334-9718697
Peshawar	Mr. Saqib Raza Aslam	091-9212302	091-9211338	091-9212303	0345-1288888
Shangla	Mr. Abdul Kabir Khan	0996-850005-6	0996-850008	0996-850002	0345-5200 365
Swabi	Mohtassim Billah Shah	0938-221300	0938-221220	0938-221917	0344-9229860
Swat	Mr. Amer Afaq	0946-9240340	0946-9240338	0946-9240329	0346-9072848
Tank	Mr. Barkat Ullah Khan	0963-511326	0963-511326	0963-510300	0335-9961 600
Tor Ghar	Mr. Parwaiz Sabat Khel	0997-239879	0997-214762	0997-580188	0333-9118803

ANNEXURE 3: CONTACT LIST OF DDMOs

S.No.	Name	District	Mobile Phone	PTCL	Office Fax
1.	Rooman Burana	Abbottabad	0300-3400 592	0992-9310203	0992-9310202
2.	Mr. Khalid Qayum	BANNU	0300-5150 582	0928-9270039	0928-9270079
3.	Hafiz Javed Iqbal	Battagram	0334-5343 856	0997-312189,310136	0997-310051
4.	Mr. Asad Sarwar	Buner	0344-9028877	0939-510234/510450	0939-510427
5.	Mr. Noor Wali Khan Wazir	CHARSADDA	0347-5000002	091-9220137/ 0333-9319906 (Haroon)	091-9220026
6.	Mr. Fida ul Karim	CHITRAL	0303-3921 428		0943-412421
7.	Mr.Zahid Pervaiz Warraich	D I KHAN	0346-6875767	0966-9280117	0966-9280110
8.	Mr. Obaidullah	DIR LOWER	0333-9327929	0945-9250029	0945-9250001
9.	Mr. Ihsan ur Rehman	DIR UPPER	0302-5541823		0944-881130
10.	Mr. Shahid Khan	Hangu	0344-8100001	0925-622682	0925-622682
11.	Mr. Muhammad Arif Khan	Haripur	0345-5056262	0995-610455	0995-615412
12.	Mr. Irfan Ullah Mehsood	KARAK	0342-1114589	0927-210710	0927-210925
13.	Mr. Mehmood Ahmed	KOHAT	0333-9174118	0922-9260046	0922-926245
14.	Mr. Afsar Khan	Kohistan Lower		0998-405091	998405092
15.	Mr. Muhammad Abid	Kohistan Upper	0333-5056348	0998-407003	0998-407001
16.	Mr. Obaid Ullah Shah	Lakki Marwat	0332-5865566	0969-538332	0969-538333
17.	Mr. Sohail Ahmed Khan	Malakand	0344-9758646	0932-412254	0932-412254
18.	Mr. Tariq Hussain	MANSEHRA	0336-9957653	0997-300751	997305513
19.	Mr. Khan Muhammad	Mardan	0333-9362836	0937-9230701	0937-9230303
20.	Mr. Mohammad Zahid	NOWSHERA	0313-9807770/0331-9036050	0923-9220104	0923-9220220
21.	Mr. Moghees	PESHAWAR	0321-467 1595	091-9212304	091-9212303, 091-9214025
22.	Mr. Muhammad Qamar	SHANGLA	0345-933 6847		0996-850006
23.	Mr. Gohar Khan	Swabi	0345-8881 645	0938-221401	0938-221917
24.	Mr.Abdul Nasir Khan	SWAT	0345-9088004	0946-9240341 -9240008	0946-9240329
25.	Mr. Khaliq Dad	TANK	0335-9590 995	0963-512290	0963-510300
26.	Mr. Umar Arshad	Tor Ghar	0345-5929819		0997-580188

ANNEXURE 4: PS TO COMMISSIONER CONTACT LIST

S. No	Division	Name	Office No	Mobile No
1	Malakand	Mohammad Hanan	0946-9240225	0345-9010044
2	Hazara	Jehan Zeb	0992-9310444	0343-9862478
3	Mardan	Ihsanullah	0937-9230572	0347-8931775
4	Bannu	Ikramullah Khan	0928-920220	0300-5764942
5	DI Khan	Syed Iftikhar Hussain Shah	0966-9280351	0331-7860566
6	Peshawar	Ziar	091-9211337	0344-9112105

ANNEXURE 5: FLOOD EMERGENCY DIRECTORY OF IRRIGATION DEPARTMENT FOR THE YEAR, 2017

S. No.	District	Appointment	Name	Contact No.		E-Mail
				Office/ Residence & Fax No.	Mobile	
Chief Engineer (South)						
1.	Peshawar	Chief Engineer (South)	Engr: Syed Zahid Abbas	9212116	03339055123	chiefoffice@yahoo.com
2.	-do-	Superintending Engineer, South (H/Q)	Engr: Saeed-ur-Rehman	9212174	03339233643	
3.	-do-	Technical Officer	Muhammad Naeem	9212122	03005712432	
4.	-do-	Deputy Director (Planning)	Engr: Nawab Ali	9112119	03008582071	
5.	-do-	Deputy Director (Design)	Engr: Pir Wajid Ali Shah	9212119	03467847040	
6.	-do-	Canal Collector	Mr. Gohar Ali	9210659	03005963979	
7.	-do-	Administrative Officer	Mr. Khitab Gul	9212118	03339732322	
Executive Engineer, Hydrology Irr: Divn: Peshawar						
1.	Peshawar	Executive Engineer	Engr: Musrim Khan	9212114	03018305400	
2.	-do-	SDO Irr: Sub Divn: Peshawar	Mr. Jehanzeb Khan	9111907	03348800705	
3.	Abbottabad	SDO Abbottabad	Mr. Muhammad Sadiq	0922-9310354 09929310354 (Residence)	03459637939	
4.	Bannu	SDO Bannu	Mr. Fatihullah	0928-9271997	03339748548	
Project Director Remodeling of Warsak Canal System						
1.	Peshawar	Project Director	Engr: Arbab Zulfiqar	9222774	03339142040	
2.	-do-	Project Manager	Engr: Niaz Sarwar Baloch	9222775	03339102489	
1	Peshawar	Project Director	Engr. Malik Mazhar	5200703	03009155450	
2	Peshawar	Deputy Director (MIC)	Engr. Walyat Khan	5200710		
3	Peshawar	Deputy Director (NIC)	Engr. Amjad Khan	5200710	03005953830	
4	Peshawar	Deputy Director (CIC)	Engr. Qabil Shah	5200710	03005927622	
5	Peshawar	Deputy Director (SIC)	Mr. Sohail	5200710	03339161619	
6	Peshawar	Assistant Engineer	Farman Ullah	5200710	03469277092	
7	Peshawar	Assistant Engineer	Shafqat Fahim	5200710	03018896238	
8	Peshawar	Assistant Engineer	Syed Muhammad Younas	5200710	03469304228	
9	Peshawar	Assistant Engineer	Habib-ur-Rehman	5200710	03449077000	
10	Peshawar	Assistant Engineer	Hayat Ullah	5200710	03467876818	
11	Peshawar	Assistant Engineer	Mr. Parwish	5200710	03335898591	
12	Peshawar	Assistant Engineer	Amir Muhammad	5200710	03438962080	
13	Peshawar	Assistant Engineer	Waheed Ullah	5200710	03449520323	
14	Peshawar	Assistant Engineer	Rajab Ali	5200710	03469817708	
15	Peshawar	Assistant Engineer	Fazle Mula	5200710	03469755526	
I).	S.E Peshawar Irr: Circle Peshawar.		Engr. Shahibzada Muhammad Shabir	091-9212115	03339331123	
a)	Peshawar Canal Divn: Peshawar					
1.	Peshawar	Executive Engineer	Engr: Asad Zaman Khan	9210102	03339101405	
2.	-do-	SDO KRC	Engr: Saifullah Khan	9210113	034490355864	
3.	-do-	SDO Civil Canal	Engr: Niaz Badshah	-	03005844790	
4.	-do-	SDO Drainage	Engr: Sabir Hussain	-	03339276745	
5.	-do-	Deputy Collector	Mr. Rasool Shah	-	0320888995	
b)	Warsak Canal Division Peshawar					
1.	Peshawar	Executive Engineer	Engr. Sami Ullah Kundi	9212502	03038173125	
2	-do-	SDO	Mr. Sherin Jan	9212502	03339102279	
3	-do-	SDO	Engr. Taimour Zahid	9212502	03059685529	
c)	Tube Well Irr: Divn: Peshawar					
6.	Peshawar	Executive Engineer	Engr: Sher Zaman	9222731	03339154350	
7.	-do-	SDO T/W SDivn: Pesh:	Engr: Imtiaz	9222731		
8.	-do-	SDO T/W Pabbi	Mr. Hazrat Hassan	-	03149014952	
d)	Xen Charsadda Irr Divn:					
1.	Charsadda	XEN	Engr. Rooh-ul-Mohsin	6514641	03149838169	charsaddairr@yahoo.com
2.	-do-	SDO Charsadda	Engr. Amanullah		03154681435	
3.	-do-	SDO Tangi	Muhammad Iqbal	6181144	03339130739	
4.	-do-	SDO Zaim	Abdul Sadiq		03429646180	
II)	SE Bannu Irr: Circle Bannu					
a)	Bannu SE Bannu					
1	-do-	XEN: Marwat Canal	Engr: Muhammad Shoaib	0928-9270061	03339216239	sebicbannu@gmail.com
2	-do-	SDO Civil Canal	Engr: Anawat Kamal	0928-9270063	03005904181	
3	-do-	SDO Sarai Nourang	Engr. Faridullah	0928-9270063	03339743899	
3	-do-	SDO Sarai Nourang	Engr. Akbar Khan	0928-9270063	03459797456	
b)	Bannu XEN: Bannu Canal					
1	-do-	SDO Head Work	Engr: Aurangzeb	0928-9270056	03339615173	
2	-do-	SDO Jani Khel	Engr. Shoukat Badshah	0928-9270056	03469322058	
3	-do-	SDO Tajori	Mr. Nora Jan	0928-9270056	03348805591	
3	-do-	SDO Tajori	Muhammad Ismail	0928-9270056	03455044165	
c)	Kohat XEN: Kohat					
1	-do-	SDO Tanda Dam	Engr: Abdul Sattar	0922-9260173	03330564039	kohatirrigation@gmail.com
2	-do-	SDO Project	Engr. Mustafa Ali	0922-9260173	03339310931	
2	-do-	SDO Project	Mr. Riaz Ahmed	0922-9260173	03065669504	

S. No.	District	Appointment	Name	Contact No.		E-Mail
				Office/ Residence & Fax No.	Mobile	
3	-do-	SDO Irr: S/Divn:	Mr. Shahbaz Khan	0922-9260173	03469777505	
4	-do-	SDO Karak S/Divn"	Mr. Khurshid	0922-9260173	03322472644	
III)	SE DIKhan Irr: Circle DIKhan					
a)	DIKhan	SE DIKhan	Engr: Sheikh Jalil	0966-9280238	03339962522	sedikcircle@gmail.com
b)	Pharapur	XEN: Pharapur	Engr: Misal Khan	0966-9280127	03367761949	pharapurdivision@gmail.com
1	Pharapur	SDO	Jamshid Ahmed Raees	0966-9280127	03339971908	
2	Pharapur	SDO	Muhammad Tahir	0966-9280127	03329811986	
c)	CRBC	XEN CRBC	Engr: Aqil Asghar	0966-9280237	03005792686	xencrbcir@yahoo.com
1	CRBC	SDO	Hassan Zulqarnain Haider Shah	0966-9280237	03459870590	
2	CRBC	SDO	Hidayatullah	0966-9280237	03467991786	
d)	DIKhan	XEN: Flood	Engr: Farooq Ahmed	0966-740259	03459130833	xenflooddik@gmail.com
1	DIKhan	SDO	Saeed Ullah	0966-740259	03459806595	
2	DIKhan	SDO	Khushal Khan	0966-740259	03459240065	
3	DIKhan	SDO	Ghulam Rasool Barki	0966-740259	03459888802	
e)	DIKhan	XEN: Gomal Zam	Engr: Tariq Ali	0966-9280336	03367761949	xengomalzamdik@gmail.com
1	DIKhan	SDO	Ashraf Khan	0966-9280336	03339091119	
2	DIKhan	SDO	Ghulam Rasool Barki	0966-9280336	03459888802	
3	DIKhan	SDO	Shahid Khan	0966-9280336	03018021941	

ANNEXURE 6: EMERGENCY CONTROL ROOM CONTACT LIST

S. No	Stakeholder/Department/Distt	Emergency Control room Contact No	Focal Person	Designation	Contact No
1	Buner	0939-510450	DDMO/	DDMO	NA
		0939-510427	AC Daggar	AC	NA
		0939-510200	AC Gagra	AC	NA
		0939-530023	AC Mandanr	AC	NA
2	Dir Lower	0945-9250002/9250029,Fax: 0945-9250001/9250004	DDMO	DDMO	NA
		0945-885652	AC Ialqilla	AC	NA
		0945-761051	AC Adenzai	AC	NA
3	Dir Upper	NA	Asif Ali Khan	AC/DDMO	0944-880506-880104
			Bakht Rawan	Computer Operator	0312-4766444
			Tariq Ali Khan	Computer Operator	0300-9133151
			Ijaz Ahmad	Junior Clerk	0333-9997982
4	Malakand	0932-414880 and 0932-413199	Sadat Shah, Iftikhar, Razaq	Phone Operator	0932-411002
		0932-412254	Gohar Rehman	Phone Operator	0932-412254
		0932-331035 and 0932-333455	Imran and Ayaz	Phone Operator	NA
		0932-412473	Ahmad Hussain	Steno	NA
		0932-410317 and 0932-411482	Fazal Wadan	Phone Operator	NA
5	Swat	0946-9240324	Mr. Ghulam Saeed	Additional DC	03446663338
			Major Faheem Khalid	BM 315	3105777167
			Bakhtiyar Khan	SDO Irrigation	3453978855
			Farman Ullah	SDO Building	3009399626
			Saood Khan	SDO Highway	3335826969
			Noor Rehman	SDO BPS 17	3339503388
			Ali Rehman	SDO PESCO	3339331636
			Fazal Khaliq	ADEO P&D	33493143031
			Akhtar Ayub	Admin Officer	3339481471
			Raza Shah	Office Assistant	3469488744
			Sardar Ali	Office Assistant	3005740677
Khan Bacha	Sub Engineer	3432212333			
Dr. Tariq Khan	Public Heath Coordinator	3459287967			
6	Abbottabad	0992-9310326	M. Tariq	Assistant Food Controller PRC Havelian	0321-9040409
			Shad Muhammad	DFC	0300-3641619
7	Kohistan	998407002 and 0998407193	....	DC	
		998407003	....	AC/ DDMO Dassu	
		998405130	....	AC Pattan	
		0998-405031	....	AC Pallas	
8	Mansehra		Mr. Abdul Majid	Superintendent	0302-5611041
9	Torghar		Muhammad Iqbal	AC/DDMO	0334-8318383
			Umar Arshad	AAC	0345-5929819
10	Swabi	0938-221402	Sajjad ahmad	Stenographer	0345-4559815

		0938-300043	Ali Baswar	Reader Incharge	0333-9434235
		0938-310567	Muhammad Khalid	Reader & Incharge	0345-95054433
11	Hangu	0925-621175, 623968, 0925-622682	....	DDMO	3000193777
12	Lakki Marwat	0969-538330-31	....	DC	.....
13	Kohat	0922-9260268	....	DC	.....
14	Peshawar	091-9211338	....	MoD	0300 9567069
15	Karak	210825, 210600	....	AC Karak	.....
		210710	....	AC Karak	.....
		927304831	....	AC T/Nasrati	.....
		0927-333100	....	AC B. D. Shah	.....
16	Bannu	0928-9270032 & 0928-9270081	....	DC	.....
		0928-9270039 & 0928-621395	....	AC/DDMO	.....
17	Nowshera	0923-9220098 – 99	Abdul Hameed Khan	AC/DDMO	0313-9154632
		0923-9220102	Bashir Dad	DSP HQ	0300-9591537
18	PKHA	091-9213522			
19	PMD	091-9212410	DR. M. FAHIM AHMAD	DY. DIRECTOR	0333-5224566
20	PHED	0946-721799	Mr. Noor Rehman	Sub.Divisional Officer	0333-9196724
21	Home & Tribal Affairs Department	0912-9210036	.....	SO PCMC	.....
22	Communication & Works Deptt	0923-644003	.....	.....	0342-9565278
23	Agriculture, Livestock & cooperation Department	091-9224223	Mr. Iqbal Hissain	DG Agri. Extention	0303-8506491
		091-9210276	Dr. Sher Mohammad	DG Livestock & Dairy Development	0333-9124018

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

Incharge Name	Telephone Number	Fax Number
Mr. Nadeem Khan	091-9213845	
	091-9213959	091-9212059
	091-5274625	
	091-5274339	

ANNEXURE 8: PDMA CONTACT LIST

S.No	Name	Designation	Mobile Phone
1	Mr.Ahmad Haneef Orakzai	Secretary (RRS)	
2	Mr. Muhammad Khalid	Director General	0334-9373333
3	Mr. Abdul Basit	Director Relief, Ops & Coordination	0300-5732224
4	Mr. Kabir Afridi	Director (HR/Administration)	0333-4487989
5	Sahibzada Najeeb Ullah	Deputy Director (T&A)/ (Relief)	0300-4276763
6	Mr. Jan Israr	Deputy Director (F&A)	0347-5095507
7	Mr. Mohammad Ilyas	DD (Relief Rehabilitations)	
8	Mr. Faheem Khalil	Assistant Director (Admn)	0342-0899176
9	Mr. Saif ul Islam	Assistant Director (Proc.)	0333-8583330
10	Mr. Ejaz Khan	Assistant Director (Estt)	0334-9099810
11	Mr. Shehzad Ameer	Assistant Director (B&R)	0343-9840046
12	Mr. Shahab Muhammad Khan	Assistant Director (DRM-I)	0313-9531283 0342-9160206
13	Mr. Abid Ali	AD(B&R)	0333-1588811
14	Mr. Muhammad Kashif	Assistant Director (internal Audit)	0321-9169636

ANNEXURE 9: SUMMARY OF HEALTH FOCAL PERSONS AND CONTACT NUMBERS

S. No	District	Focal Person	Contact Number
1	Abbottabad	Dr. Shah Faisal	03038035716
2	Bannu	Dr. Mohammad Daraz	03339643283
3	Battagram	Dr. M Saleem	0333 505 1120
4	Buner	Dr. Abdul Wahid	0342 962 4269
5	Charsadda	Dr. Akhunzada Zafar Ali	0345 940 6902
6	Chitral	Dr. Israr Ullah	0305 960 9474
7	D I Khan	Dr. Aziz Ullah	0345 982 1128
8	Dir Upper	Dr. Nazar Mohammad	0336 937 2230
9	Dir Lower	Dr. Tanvir	0333 900 1234
10	Hangu	Dr. Shakoor Rahman	0302 565 4556
11	Haripur	Dr. M. Bilal Khan	03135906896
12	Kohat	Dr. Tariq Aziz	03005842358
13	Karak	Dr. Qudrat Ullah	03319150554
14	Kohistan	Dr. Taj Mohammad	0302 350 9804
15	Lakki Marwat	Dr. Abdur Rahman	0345 985 6667
16	Mansehra	Dr. Shezad Gul	03345018718
17	Malakand	Dr. Tanveer Inam	0333 900 1234
18	Mardan	Dr. Zahoor	0307 572 6912
19	Nowshera	Dr. Abu Zar	0300 588 2054
20	Peshawar	Dr. Arshad Amir	0333 911 9465
21	Swat	Dr. Ijaz Ahmad	03339498811
22	Swabi	Dr. Fida Mohammad	0300 5687817
23	Shangla	Mr. Kamal Zada	0308 818 2857
24	Tank	Dr. Tahir Javed And Dr. Kashif	03005793733 03005944123
25	Torghar	Dr. Fazale Wadood	0333 969 6872

ANNEXURE 10: HOUSEHOLD CASELOAD FOR MONSOON CONTINGENCY PLAN 2016

HH caseload (High Impact)	HH damages in 2010 x Annual Growth Rate in Housing Sector (i.e. 2.72% taken from research conducted by Ministry of Commerce Govt. of Pakistan) 1 HH comprises of approx. 6 persons
HH caseload (Medium Impact)	1/3 rd of High Impact
HH caseload (Low Impact)	1/3 rd of Medium Impact

ANNEXURE 11: 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 12: 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 13: STANDARD HYGIENCE 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 14: 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 15: 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 16: LIST OF TRAINED (EWS, EVACUATION, FIRST AID, SEARCH AND RESCUE COMMUNITIES):

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

S #	Village Council	Union Council	Name	F. Name	Contact Number	Designation
1	Choki Mamrez	Choki Mamrez	Mehar Zaman	Gul Zaman	3005940903	Chairperson
2	Choki Mamrez	Choki Mamrez	Bukhat Jamal	Saad Ullah	3013033816	General Secretary (M)
3	Chand Bibi	Choki Mamrez	Hayan Ullah	Shahulazir	0333-9012937	Chairperson
4	Chand Bibi	Choki Mamrez	Faheem Ullah	Yar Muhammad	0332-9004232	General Secretary (M)
5	Kandi Taza Din	Choki Mamrez	Sher Ahmad	Abdul Jabbar	0308-8309909	Chairperson
6	Kandi Taza Din	Choki Mamrez	Shah Mehmood	Bostan Khan	0300-5854473	General Secretary (M)
7	Khush Makam	Choki Mamrez	Masid	M. Kamal	0301-8094305	Chairperson
8	Khush Makam	Choki Mamrez	M. Ayaz	Ghulam Mustafa	0320-5009524	General Secretary (M)
9	Camp Korona	Muhib Banda	Fiza Hussain	Ghulam Hussain	0302-4987233	Chairperson
10	Camp Korona	Muhib Banda	Malang Shah	Abdullah Shah	0302-2921886, 0301-8825921	General Secretary (M)
11	Banda Sheikh Ismail	Muhib Banda	Arbab Ali Akbar	Arbab Noor Hussain	0313-7584000	Chairperson
12	Banda Sheikh Ismail	Muhib Banda	Zakir Ullah	Shakir Ullah	0300-9363561	General Secretary (M)
13	Muhib Banda	Muhib Banda	Imran Khan	Bakhtyar Ul Haq	0333-9037412	Chairperson
14	Muhib Banda	Muhib Banda	Wahid Zaman	Shams ur Rehman	0300-5919879	General Secretary (M)
15	Ghari Momin	Muhib Banda	Ahmad Khan	Abdul Razik	0302-8810690, 0302-5775556	Chairperson
16	Ghari Momin	Muhib Banda	Faheem	Siraj Muhammad	0345-9097181	General Secretary (M)
17	Aman Kot-1	Aman Kot	Ijaz Ahmad	Adul Ghaffar	0300-9355507	Chairperson
18	Aman Kot-1	Aman Kot	Wasim Zeb Khan	Farhad Ali	0334-9093046	General Secretary (M)
19	Aman Kot-2	Aman Kot	Fazal Nabi	Mohammad Akram	0321-9008190	Chairperson
20	Aman Kot-2	Aman Kot	Ibrar Hussain	Khalid Khan	0321-9749636	General Secretary (M)
21	Choki Drab	Aman Kot	Farhad Khan	Khalid Khan	0300-5850089	Chairperson
22	Choki Drab	Aman Kot	Khalid Shah	Rasool Shah	0334-5337128	General Secretary (M)
23	Dheri Mian Ishaq	Aman Kot	Bahadar Khan	Akbar Khan	0333-9197687	Chairperson
24	Dheri Mian Ishaq	Aman Kot	Arshad Ali	Moqadar Shah	0333-9129434	General Secretary (M)
25	Gujar Basti	Aman Garh	Gul Hassan	Mahmood Shah	0300-5777890	Chairperson
26	Gujar Basti	Aman Garh	Umar Hayat	Umara Khan	0342-9291608	General Secretary (M)
27	Zia ud Din Koroan	Aman Garh	Jan Afzal	Said Afzal	0302-8809408	Chairperson
28	Zia ud Din Koroan	Aman Garh	Fazal Karim	Khaista Gul	0343-9149021	General Secretary (M)
29	Khalil Abad	Aman Garh	Asghar Khan	Bahadar Khan	0345-9321936	Chairperson

30	Khalil Abad	Aman Garh	Imran Yousaf	Yousaf Khan	0346-2403361	General Secretary (M)
31	Sheikh Abdul Ghafor	Aman Garh	Arshid Khan	Sahar Gul	0307-8091408	Chairperson
32	Sheikh Abdul Ghafor	Aman Garh	Anwar Ali	Khan Kheil	0300-9365404	General Secretary (M)
33	Adam Abad	Aza Kheil Payan	Israim Khan	Ibrahim Khan	0310-9769238	Chairperson
34	Adam Abad	Aza Kheil Payan	Kifayat ullah	Zaka Ullah	0312-5161804	General Secretary (M)
35	Shah Baz Garh (Aman Kheil)	Aza Kheil Payan	Gul Bahadar	Sher Bahadar	0315-3946399	Chairperson
36	Shah Baz Garh (Aman Kheil)	Aza Kheil Payan	Safdar Iqbal	Haji Mozarib Shah	0345-9316377	General Secretary (M)
37	Tarkanan	Aza Kheil Payan	Mohammad Amir	Anwar Sher	0311-1928112	Chairperson
38	Tarkanan	Aza Kheil Payan	Abdullah	Shamshad Anwar	0310-9374269	General Secretary (M)
39	Tekadaran	Aza Kheil Payan	tahir	qamarzaman	0345-9131901	Chairperson
40	Tekadaran	Aza Kheil Payan	Shahid	Musanif shah	0333-3161040	General Secretary (M)
41	Muslim Abad (Ghareeb Abad)	Aza Kheil Bala	Tahir Iqbal	Askar Khan	3453018221	Chairperson
42	Muslim Abad (Ghareeb Abad)	Aza Kheil Bala	Gul Nawaz Khan	Lal Badasha	3068787987	General Secretary (M)
43	Daud Zai	Aza Kheil Bala	Shah Saud	Hassan Khan	3219013063	Chairperson
44	Daud Zai	Aza Kheil Bala	Ihsan Akbar	Meer Akbar	3439135604	General Secretary (M)
45	Ada	Aza Kheil Bala	Noor ul Azeem	mukaram khan	3002669898	Chairperson
46	Ada	Aza Kheil Bala	Abbas Khan	Dil faraz	3478486326	General Secretary (M)
47	Alu Kheil Miangan	Aza Kheil Bala	Mian Shafiq-ur-Rehman	Mian Habib-u-Rehman	3412977976	Chairperson
48	Alu Kheil Miangan	Aza Kheil Bala	Fazal Qayoom	Meher Qayoom	3025779664	General Secretary (M)

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	Muhammad Usman	Muhammad Kamran	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

44	Micheal	Micheal Inayet	BS	6th	Peshawar	0348-0019468
45	Owais Afridi	Naveed Akhter	BS	6th	Jamrud Khyber Agency	0306-9666471
46	M Ayub	Shereen Khan	BS	6th	Bara Khyber Agency	0320-9801016
47	Saad Salman	Zulfiqar Ahmad	BS	6th	Peshawar	0341-1212521
48	M Umair	Farman Ali	BS	6th	Dir Lower	0308-8858820
49	Ahmad Farhan	Gulab Khan	BS	6th	Hangu	0306-5686200
50	Naeem Jan	Sultan Zeb	BS	6th	Bajaur Agency	0306-5002299
51	Anil Saleem	Saleem	BS	6th	Peshawar	0347-1950781
52	Rafeeq Shah	Mastan shah	BS	6th	Khyber Agency	0313-9288249
53	M Tauseef	M Rafiq	BS	4th	Peshawar	0313-3778104
54	Hashmat ullah	Asad ullah	BS	3rd	Peshawar	03349033881
55	Khalid	Shan wali	BS	3rd	Peshawar	03038270559
56	Abbas Shareef	M Shareef	BS	3rd	Swabi	03159288517



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