

# DISTRICT DISASTER MANAGEMENT PLAN 2018

Division: Rawalpindi

District: Chakwal

Tehsils: Tehsil Chakwal, Tehsil Talagang, Tehsil Choa  
Saiden Shah, Tehsil Kallar Kahar, Tehsil Lawa

Major Risks: Floods, Hill Torrent, Earthquake,  
Epidemic



Prepared by: Rescue 1122, Chakwal

Approved by: Deputy Commissioner, Chakwal



## TABLE OF CONTENTS

Executive Summary .....	1
Aim and Objectives .....	2
District Profile .....	3
Coordination Mechanism .....	10
Risk Analysis .....	20
Mitigation Strategy .....	26
Early Warning .....	29
Rescue Strategy .....	32
Humanitarian Assistance .....	33
Annex I: Identified sites for displaced persons .....	34
Annex II: List of hazard prone villages/ Revenue Estate (NAMES REquired) .....	35
Annex III: List of Health Facilities and their vulnerability to Hazards .....	36
Annex IV: List of vulnerable Educational institutions .....	41
Annex V: List of Industries with their risk level .....	42
Annex VI: List of NGO working in the District .....	43
Annex VII: Contact list of main stakeholders / departments .....	51
Annex VIII: List of volunteers .....	53
Annex IX: Political Constituencies .....	55
Annex X: Local Government .....	56
Annex XI: Data Collection Performas .....	60
Annex XII: Camp Management SOPs .....	63
Annex XIII: Flood Bunds .....	64
Annex XIV: River Discharge Rates .....	67
Annex XV: List of Basic Terms .....	68

# XX

Estimated number of people at risk of **hill torrent** in 2018



Risk: Low

# XX

Estimated number of people at risk of Hill Torrent in 2018



Risk: Low

# XX

Estimated number of people at risk of earthquake in 2018



Risk: High

# XX

Estimated number of people at risk of epidemic in 2018



Risk: Medium

## EXECUTIVE SUMMARY

Provide a short executive summary outlining the situation and risk analysighds, the response objectives and intended operational delivery.

District Chakwal is arid district with no flood hazards. There is no river situated in district Chakwal. Only in heavy rain season some nullas are flooded but in previous known history no major disaster occured in the district.

In case of any emergency situation all the line departments are fully prepared to such situation. Main departments are Rescue 1122, Civil Defense Department, Health Department, Tehsil / Municipal Administration. All thse departments are equipped with emergency response tools and quite capable with operational delivery.

All the head of departments have already been directed to make suitable arrangements for the rescue and relief operations and effectively coordinate with each other to make an effective effort for rescue.

## AIM AND OBJECTIVES

The plan is aimed to manage emergencies by putting in place requisite mitigation measures and a well-coordinated and integrated response at district level.

The main objectives of the plan include:

- To develop a plan of action for the District Disaster Management Authority and other district stakeholders to set priorities and provide directions for disaster management;
- To define the roles of various stakeholders in disaster management in all the phases pre, during and after disaster;
- To raise awareness of stakeholders about disaster risks and the requirements for disaster management;
- To introduce coordination mechanism for immediate response and rehabilitation at district level;
- To enhance the effectiveness and timeliness of emergency response through the clarification of goals, strategies, roles and responsibilities;
- To strengthen response coordination between government departments and humanitarian organizations (UN agencies, I/NGOs);

# DISTRICT PROFILE

## Socio-Economic Indicators (Average)

S.No.	Particulars	Numbers
1.	Population	1,500,000
2.	No. of Tehsils	5
3.	No. of UCs	71
4.	No. of Revenue Estates	455
5.	Population Density (people per km <sup>2</sup> )	210
6.	Family Size	7
7.	Pop Growth Rate	2.00
8.	PCI	0
9.	District GDP/Annual Income	
10.	Poverty Rate	
11.	Patient/Doctor Ratio	
12.	AMR	
13.	IMR	341,000
14.	MMR	289,100
15.	Literacy Rate	84%
16.	Global Acute Malnutrition (GAM) rate	
17.	Severe Acute Malnutrition (SAM) rate	
18.	Percentage of population having access to clean drinking water	
19.	Annual Crime	

### Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
1319960	411966	432354	221719	253921	

Source/Note: District Population Department

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)

Source/Note: Click here to enter text.

### Area (in acres)

Total Area of District in Km <sup>2</sup>	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
2591	820,020		

### Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
84%	82%	81%	85%	84%	85%	83%

Source/Note: Click here to enter text.

Government Schools				Private Schools			
		Schools	Enrollment			Schools	Enrollment
<b>Total/ Overall</b>		1,201	174,527	<b>Total/ Overall</b>		801	77,245
Boys	Primary	360	26,444	Boys	Primary	0	0
	Middle	88	5,079		Middle	0	0
	High	126	49,893		High	117	19,388
Girls	Primary	385	37,725	Girls	Primary	0	0
	Middle	125	6,497		Middle	0	0
	High	188	48,889		High	161	23,387
Co-Education	Primary	0	0	Co-Education	Primary	156	1,440
	Middle	0	0		Middle	367	33,030
	High	0	0		High	0	0
Special Education				Special Education			

#### Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	66	01		02	2	71
No of Students	16864	350		450	206	17070

#### Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	76	04	0	106	182
Annual OPDs					
No of beds	310	335	00	335	980
Doctors Available	74	62	0	0	136
Paramedical staff	100	263	0	0	363
Ambulances available	13		0	0	9
Mobile Medical Units					

**Livestock:** Small Animals (goats, sheep etc.):

Big Animals (cows, buffalos, camel etc.)

#### Main source of livelihood of the community?(in percentage)

Agriculture	Livestock	Poultry	Fish Farming	Services (Public & Pvt)	Business	Expatriates	Industrial Labor	Skilled Labor	Unskilled Daily Labor	General Labor
60%	17%	6%	0%	4%	3%	1%	2%	1%	4%	2%

#### Disaster History - Floods (since 1970)

S#	Year	No. of people affected	No. of deaths	No. of Revenue Estates affected	Houses Damaged (Partially)	Houses Damaged (Fully)	Compensation Paid (Rs.)	Financial Impact (including infrastructure damaged)
1	1992	500	1	1	300			
2	1997	299		1	25			
3	1997	100		1	25			
4	2013	200	1	1	250			

**Disaster History – Other disasters (since 1970)**

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	2015	Earthquake	1	1	1 child death due earthquake Kalar Kahar

**General Information**

Particulars	Detail
Neighboring districts and their vulnerabilities	Jhelum, Khushab, Mianwali, Rawalpindi
Topographical Features	
Weather/Climate pattern	e.g. max. and min. temperature, annual precipitation, storms, heat waves, snow fall etc. Max. 43 and Min. 10
Major Rivers	Name of river, passing through areas along with length in the district Major Barrages and their Flood levels There is no river passing through District Chakwal area and no Barrage
Major Nullahs / Streams	Name of river, passing through areas along with length in the district Flood levels N/A
Motorway/Highway	Vulnerable points of motorway/highway Kallar Kahar Interchange
Railways	Vulnerable points of Railway N/A
Geological features	e.g. fault line, mountainous areas etc. Mountainous area

**Dams (including small dams)**

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
<b>Khokher Zer Dam</b>	20 Km south-east of Chakwal on Chakwal Choa Saidan Shah Road	X:300004.89 Y: 3632238.73	3212	1924		ok
<b>Dhok Tahlian Dam</b>	27 Km south-east of Chakwal on Chakwal Choa Saidan Shah Road	X: 310752.1 Y: 3628283.7	1805	1947.5	-	Ok

<b>Kot Raja Dam</b>	25 Km south-east of Chakwal on Chakwal Choa Saidan Shah Roa	X: 3125747 Y:3632231.6	2844	1721.5	-	Ok
<b>Dhok Qutab Din Dam</b>	40 Km south-east of Chakwal near Village Dhok Qutab Din	X: 316303.1 Y:3632564.9	1976	1948	-	Ok
<b>Nikka Dam</b>	35 Km south of Chakwal on Khushab Road.	X: 281835.8 Y:3627397	1248	2351	-	Ok
<b>Walana Dam</b>	44 Km south of Chakwal City	X: 277668.1 Y:3640402.7	2193	1712	-	Ok
<b>Gurabh Dam</b>	15 Km from Talagang on Khushab Road	X: 252790.7 Y:3638493.2	922	1756	-	Ok
<b>Pira Fatehial Dam</b>	20 Km South-West of Talagang near Village Jhatla	X: 252446.6 Y:3632030.3	7400	1878.3	-	Ok
<b>Dhuranl Dam</b>	55 Km from Talagang on Mianwali Road near Village Dhurnal	X: 228146.3 Y:3633707	1950	1485	-	Ok
<b>Bhughtal Dam</b>	40 Km South of Talagang City	X: 241018.7 Y:3634325.9	1140	1799	-	Ok
<b>Mial Dam</b>	45 Km from Talagang on Mianwali Road near Village Mial	X: 231088.8 Y:3637711.6	3200	1442	-	Ok
<b>Jamal Dam</b>	8 Km from Mundra Road near Village Jamal Tehsil Gujar Khan District Rawalpindi	X: 325067.1 Y:3684958.2	1860	1661	-	Ok
<b>Khai Dam</b>	25 Km from Chakwal on Khushab Road near Village Khai	X: 290745.94 Y:3633063.57	5921	2050	-	Ok
<b>Ghazial Dam</b>	45 Km from Chakwal on Sohawa Road near Village Ghazial	X: 327739.76 Y:3649778.23	2000	1587	-	Ok

<b>Minwal Dam</b>	35 Km from Chakwal near Village Minwal	X:300911.5 Y:3657664.5	2000	1568	-	Ok
<b>Dharabi Dam</b>	20 Km from Chakwal on Talagang Road near Village Balkassar	X:280934.18 Y:3643113.41	37000	1608	-	Ok
<b>Dhok Hum Dam</b>	Dam Site located near Village Chowkhandi on Mianwali Road	X:244928.8 Y:3636530.7	8000	1724	-	Ok
<b>Mundee Dam</b>	Dam Site located near Village Mundee on Sohawa Road	X:326125.34 Y:3655899.88	450	1545	-	Ok
<b>Dhok Jhang Dam</b>	30 Km from Chakwal on Choa Saidan Shah Road near Village Bhun Amir Khatoon	X:305175.5 Y:3631132	2650	1923	-	Ok
<b>Lakhwal / Uthwal Dam</b>	35 Km from Chakwal on Neela Road near Village Lakhwal	X:291695.9 Y:3656485.9	18000	1478	-	Ok
<b>Arrar Mughlan Dam</b>	Dam site is located near Daman Village	X:730309 Y:325533	5200	1491.5	-	Ok
<b>Surlah Dam</b>	20 KM south of Chakwal on Chakwal-choa Road	X:300306.95 Y:3632165.86	1905	1924	-	Ok

**Major Embankments/Bunds**

Name of Embankment	Length (km)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/vulnerable Points	GPS Location of Critical/Vulnerable Points	Remarks
N/A	0	NIL	NIL	NIL	X:0.00 Y: 0.00	NIL

**Breaching Section**

Name of Bund/ Embankment	Name of Breaching Section	Location with GPS Coordinates	Likely Affected Population			Likely Affected Revenue Estate	Remarks
			Male	Female	Children		
N/A		X: Y:					

## Power Houses/Grid Station/Oil Depot/other sensitive installations

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
132 KV GSS CHAKWAL	122 MVA	X: Y:	132 KV C.S.SHAH	26 MVA	X: Y:
132 KV GSS PADSHAHAN	33.5 MVA	X: Y:	132 KV TALAGANG	38 MVA	X: Y:
132 KV BHAGWAL	28 MVA	X: Y:	132 KV N.P.SETHI	26 MVA	X: Y:
66 KV TAMMAN	26.8 MVA		66 KV D.S.BILAWAL	25.5 MVA	

## Airport / Landing Strips

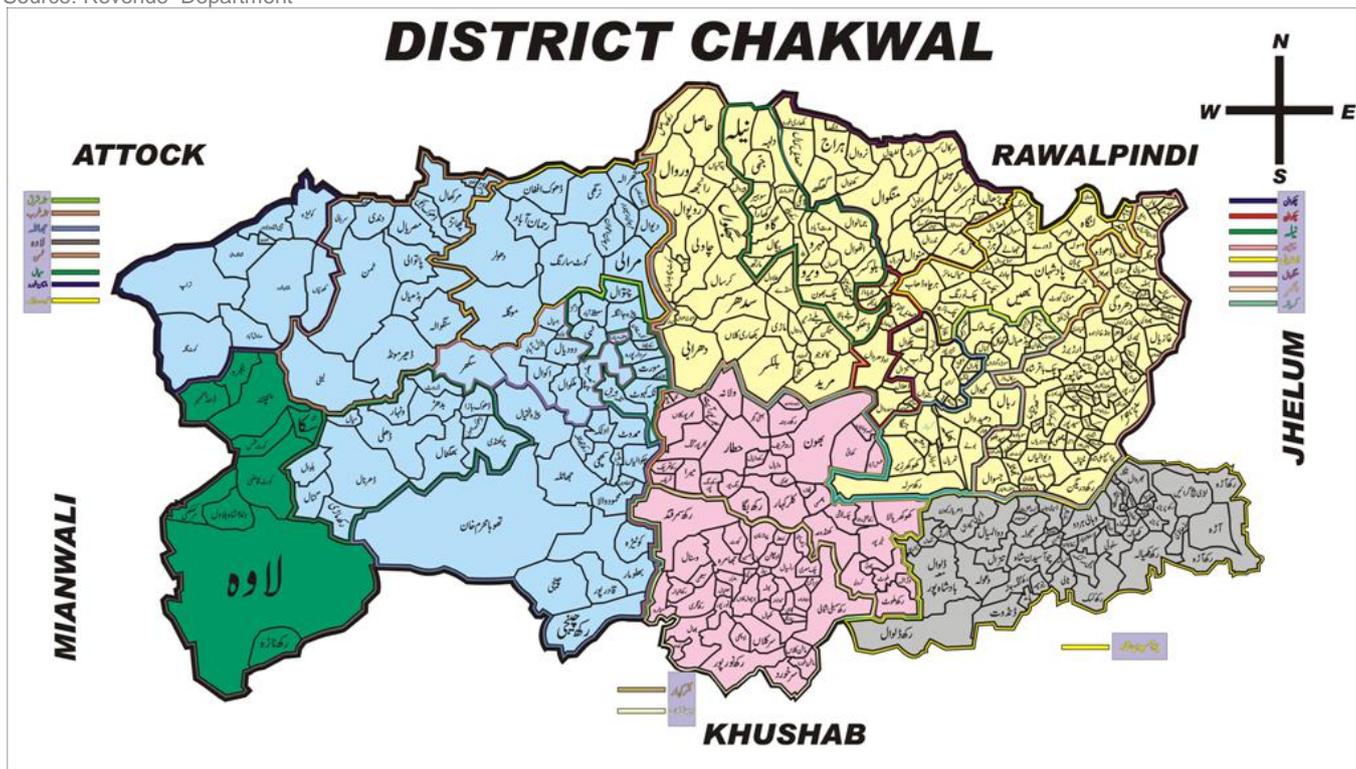
Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
N/A		X: Y:			X: Y:

## Govt. storage facilities/warehouses in the district

Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
Chakwal	11000 MT	X:32.9369189 Y: 72.8569454	Talagang	2000	X:32.9269426 Y: 72.4136916

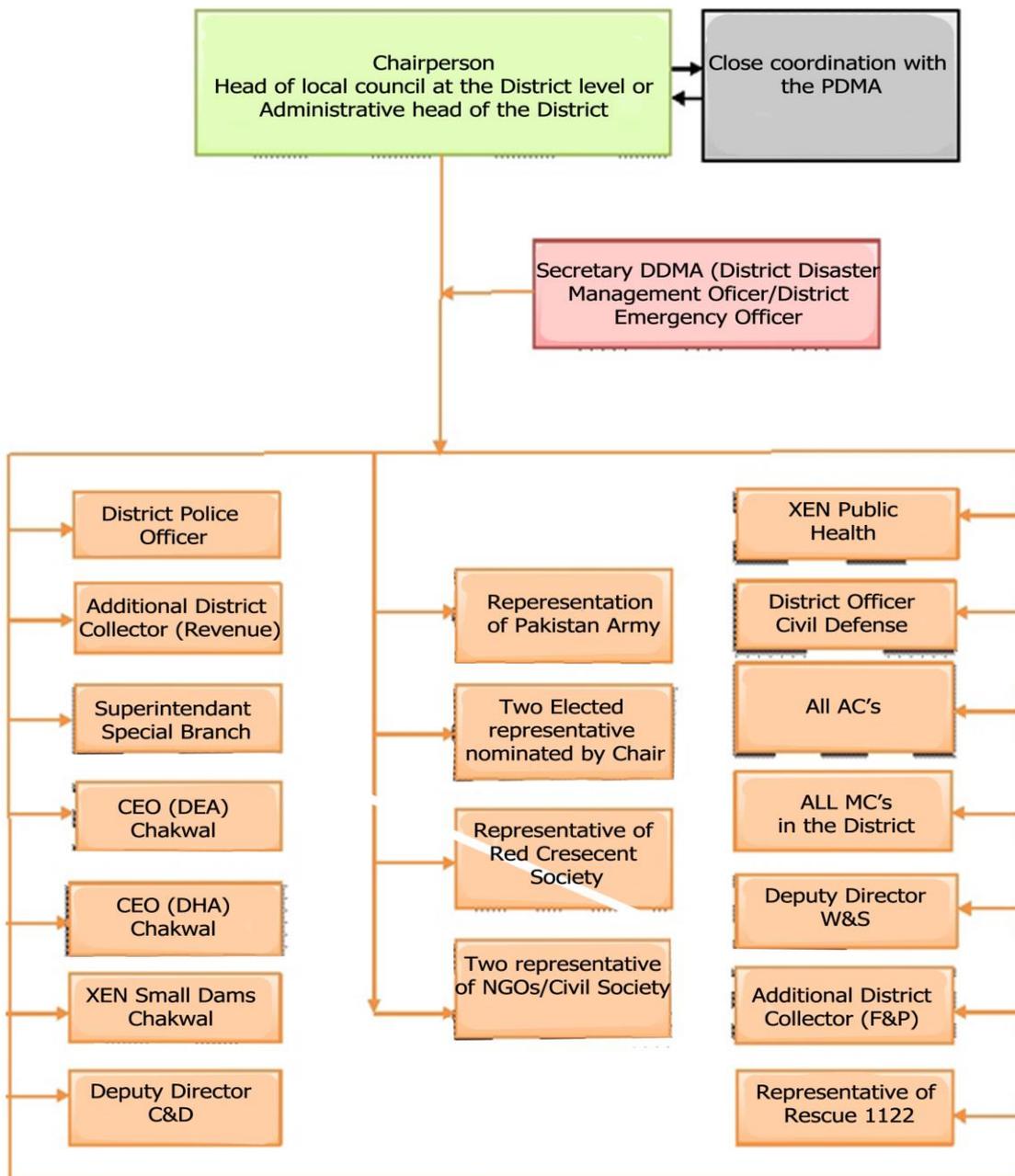
District baseline/reference map

Source: Revenue Department



# COORDINATION MECHANISM

Coordination Organogram (including Sector lead agencies/departments, Military, NGOs and Volunteers)



**Powers and functions of District Disaster Management Authority under NDM Act 2010:**

The District Authority shall be as the district planning; coordinating and implementing body for disaster management and take all measures for the purposes of disaster management in the district in accordance with the guidelines laid down by the National Authority and the Provincial Authority.

Without prejudice to the generality of the foregoing provisions, the District Authority may:

- a) prepare a disaster management plan including district response plan for the district;
- b) coordinate and monitor the implementation of the National Policy, Provincial Policy, National plan, Provincial Plan and District Plan;
- c) ensure that the areas in the district vulnerable to disasters are identified and measures for the prevention of disasters and the mitigation of its effects are undertaken by the departments of the Government at the district level as well as by the local authorities;
- d) ensure that the guidelines for prevention, mitigation, preparedness and response measures as laid down by the National Authority and the Provincial Authority are followed by all departments of the Government at the district level and the local authorities in the district;
- e) give directions to different authorities at the district level and local authorities to take such other measures for the prevention or mitigation of disasters as may be necessary;
- f) lay down guidelines for preparation of disaster management plans by the departments of the Government at the districts level and local authorities in the district;
- g) monitor the implementation of disaster management plans prepared by the departments of the Government at the district level;
- h) lay down guidelines to be followed by the departments of the Government at the district level;
- i) organize and coordinate specialized training programs for different levels of officers, employees and voluntary rescue workers in the district;
- j) facilitate community training and awareness programs for prevention of disaster or mitigation with the support of local authorities, governmental and non-governmental organizations;
- k) set up, maintain, review and upgrade the mechanism for early warnings and dissemination of proper information to public;
- l) prepare, review and update district level response plan and guidelines;
- m) coordinate with, and give guidelines to, local authorities in the district to ensure that pre-disaster and post-disaster management activities in the district are carried out promptly and effectively;
- n) review development plans prepared by the departments of the Government at the district level, statutory authorities or local authorities with a view to make necessary provisions therein for prevention of disaster or mitigation;
- o) identify buildings and places which could, in the event of disaster situation be used as relief centers or camps and make arrangements for water supply and sanitation in such buildings or places;
- p) establish stockpiles of relief and rescue materials or ensure preparedness to make such materials available at a short notice;
- q) provide information to the Provincial Authority relating to different aspects of disaster management;
- r) Encourage the involvement of non-governmental organizations and voluntary social-welfare institutions working at the grass root level in the district for disaster management.
- s) ensure communication systems are in order and disaster management drills are carried out periodically; and
- t) Perform such other functions as the Provincial Government or Provincial Authority may assign to it or as it deems necessary for disaster management in the district.

**District Plan:**

- a) There shall be a plan for disaster management for every district of the Province.
- b) The District Plan shall be prepared by the District Authority having regard to the National Plan and the Provincial Plan.
- c) The District Plan shall be reviewed and updated annually.

**Additional Powers of District Authority:**

For the purpose of assisting, protecting or providing relief to the community, in response to any disaster, the District Authority may:

- a) give directions for the release and use of resources available with any department of the Government and the local authority in the district;
- b) control and restrict vehicular traffic to, from and within, the vulnerable or affected areas;
- c) control and restrict entry of any person into, his movement within and departure from, a vulnerable or affected area;
- d) remove debris, conduct search and carry out rescue operations;
- e) provide shelter, food, drinking water and essential provisions, healthcare and services;
- f) establish emergency communication system in the affected area;
- g) make arrangements for the disposal of the unclaimed dead bodies;
- h) direct any department of the Government of the Province or any authority or body under the Government at the district level to take such measures as are necessary in its opinion;
- i) require experts and consultants in the relevant fields to advise and assist as it may deem necessary;
- j) procure exclusive preferential use of amenities from any authority or person;
- k) construct temporary bridges or other necessary structures and demolish structures which may be hazardous to public or aggravate the effects of the disaster;
- l) ensure that the non-governmental organizations carry out their activities in an equitable and non-discriminatory manner; and
- m) Take such other steps as may be required or warranted to be taken in such a situation.

**Revenue Department (Functions and Responsibilities)**

In case of any disaster or calamity the head of the revenue department in the district i.e. the DC/DC should ensure that the following measures and steps have been taken:

- Taking everyone on board is perhaps the most important thing to do. Regular meetings of DDMA should be held to clearly highlight the roles and duties of DPOs, CEO's, and XENs etc.
- Pre-flood meeting should be held and duties of all concerned officers and departments should be clearly defined and assigned.
- A district disaster management plan should be prepared using the set template and updated regarding any disaster or emergency that may strike the district.
- A focal person for the disaster or calamity should be nominated and his/her number should be communicated to all concerned departments.
- Proper stock taking should be done regarding available stocks of food and rations. Similarly stock regarding machinery and equipment should also be taken and inventories should be prepared. Out of order machinery should be repaired or replaced.
- Committees should be formed and constituted which will deal with various functions during a flood or emergency. Purchasing of food items, food, and machinery should all be done through committees.
- Identification of Low lying, medium and high vulnerability levels with flood level
- In case of evacuation the district administration should be very clear about the places where the relief camps or shelters will be established. Teams should be formulated which will look after these camps and will be in-charge for provision of tents, food, water and maintaining general law and order. Provision of cooked food is also to be ensured.
- Proper ware houses and stores should be made available for storing of aid and donated items that may be received from authorities such as PDMA, WFP etc. A committee should be constituted to look after the record of all the items in the store.
- Proper crop surveys or girdawaris should be conducted through the revenue officials so that crop damage assessment can be made after disaster or flood affects the district. These surveys will also help in determining the identity of the true owners as well.

- Post damage assessment should be carried out by joint teams constituted of patwaris, teachers, and agriculture field assistants. Technology should be involved and android sets should be used to gather accurate data.
- Round the clock active control rooms should be set up and the numbers are circulated to all concerned. The control rooms should be equipped with wireless, telephones and computers. All info gathered or received should be conveyed to the concerned. The control room should have representatives of concerned departments such as police, health, 1122, and revenue.
- Early warning is critical in saving lives. The local revenue officials along with local police should be deployed to warn the people against the oncoming disaster and to urge them to vacate the disaster prone areas and villages. Loudspeakers, mosque speakers and word of mouth should be used. Banners and posters can also be used.
- Data collection is of prime importance and the senior network administrator should be declared as the focal person for collection of relevant information such as number of casualties, damages to infrastructure, injured, perished livestock etc. for onward submission to PDMA etc.
- Mock exercises should be carried out along with all concerned departments specially 1122, Police, civil defence and Pakistan army regarding the action plan during any emergency or flood. This will give a fair idea about the preparedness of the district.
- Availability of vehicles should be ensured for use during any emergency especially off road vehicles like jeeps.
- Suitable locations should be identified for accommodating armed forces like the Pakistan army. Normally schools, colleges or stadiums are allocated for the armed forces

#### **Checklist for Revenue Department:**

- Survey of entire District (Preparation of Village level information by Patwari)
- Identification of Low lying, medium and high: vulnerability levels with flood level
- Liaison of Patwari with Numberdars of their respective villages
- Contacts of all revenue staff posted near river belts and their output in floodprone areas
- List of Numberdars with their contacts, volunteer from low lying settlements with contact numbers
- Prepare list of vulnerable villages and make an estimate of likely affected population in such villages in the event of flood
- Announcement of Flood Warning at settlement level – Patwari responsible Forced evacuation with police
- Rapid assessment for relief goods and ration provision Coordination and reporting
- Carry out survey of entire flood affected areas to assess losses in collaboration with Agriculture, Livestock and Education Department
- Conduct crop damaged/ house damaged surveys

#### **Tehsil / Town Municipal Administration (TMA/MC)**

- Tehsil / Town Municipal Administration (TMA/MC) plays an important role of providing municipal services in the district including clean drinking water, sanitation facilities, maintenance of parks and removal of encroachment etc.
- Tehsil / Town Municipal Administration TMA/MC will provide assistance to the District Government for setting up and management of relief camps/ operations.
- TMAs are responsible for provision & restoration of water and sanitation facilities in their municipalities besides disposal of waste or rain water/sewerage.
- TMAs are equipped with trucks, water bowsers, tractors, dewatering sets, bulldozers, loaders and dump trucks. All of these equipment are utilized to restore proper sanitary facilities, ensure the delivery of clean water and remove debris or excess water.
- TMAs sanitary workers can be employed for cleaning relief camps, or other such areas which has been affected by any disaster.
- TMAs employ de-watering sets to remove excess water. All TMAs are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The TMA maintains a list of all the

choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.

- TMA should ensure supply of clean drinking in overhead reservoirs and ensure supply to the affected areas or relief camps through water bowsers. Clean drinking water is a major issue and requirement during any disaster.
- In case of any disaster that requires people to be relocated, the TMA under the concerned Administrator i.e AC will assist in the migration of the affected people.
- During the relief effort and subsequent rehabilitation effort the local TMAs manpower can be effectively used for the distribution of food and essential commodities among evacuated people or any other relief activity such as provision of cash compensation.

### **District Disaster Management Authority (DDMA)**

- DDMA's are created under the NDMA Act 2010 under Chapter IV Section 18 and the law defines their composition and also outlines their functions, duties and powers.
- District Disaster Management Authorities are the first line of defence and the implementing arm of the government policy and plans. Within the district there are three to four key players/departments that have to put up a joint and coordinated effort in order to fight with and handle any disaster under the leadership and coordination of the DC. The office of the DC fully supported by the DPO and line departments such as Health, Agriculture, Livestock, Civil Defence, 1122, TMAs and the Revenue Department form the main disaster management team within district. This plan is an effort to highlight their sets of responsibilities followed by the role of provincial departments.
- All district administrations had prepared a detailed contingency plan to face any disaster or hazard specially floods which until recently have become an annual affair for some districts.
- The district administration will divide the area as per district division with the Assistant Commissioner as Incharge of his/her tehsil. All disaster related activities in a said tehsil will be coordinated through the concerned AC.
- On receipt of a flood warning, immediate warning will be conveyed to all the concerned officers. Immediate action will be taken in each sector / sub sector for evacuation of the population from risk prone areas to safer places or to Relief Camps. An Assistant Commissioner will ensure that announcements are made through loudspeakers of the mosques utilizing the services of the Revenue department. Each Patwari will inform the Numbardar, Headmaster of the School, Imam Masjid and councillors to make announcements etc.
- The tactical operations would be headed by the Additional District Collector (ADC). The ADC would be responsible for coordinating and supervising the disaster control and relief measures in the district.
- Provincial government had notified the following composition of DDMA's for whole of the province:
  - i. **Deputy Commissioner (Chairperson)**
  - ii. District Police Officer
  - iii. Additional Deputy Commissioner (Revenue)
  - iv. Two Elected Representatives to be nominated by the Chair
  - v. Representative of Pak Army
  - vi. Two Representatives of NGOs/Civil Society to be nominated by the Chair
  - vii. District Officer (Coordination)
  - viii. Additional Deputy Commissioner (F&P)
  - ix. Deputy Director (Works & Services)
  - x. CEO (Health)

- xi. CEO (Education)
- xii. Deputy Director (C&D)
- xiii. SP Special Branch
- xiv. XEN Irrigation / Public Health
- xv. District officer Civil Defence
- xvi. Assistant Commissioners
- xvii. All Municipal Committees
- xviii. District Emergency Officer, Rescue 1122(**Secretary**)
- xix. Representative of Red Crescent
- xx. Such other District level Officers to be appointed by District Government

- District Governments must establish a Disaster / Flood control room at the DC's office, the numbers of which will be circulated to all concerned. The Disaster / Flood Control Room have to maintain updated information regarding the threat of disaster and statistics post disaster. The centre will maintain a regular communication with the Flood Forecasting Division or the dam authorities up stream in case of a flood.
- The District Government would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Governments will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
- CEO (Health) will ensure the availability of adequate medicines for treatment of common issues, particularly for snake and dog bite cases and general vaccines at each relief camp.
- DO (Agriculture) and DO Livestock would arrange fodder and feed supplement for livestock and animals displaced.
- District Regional Transport Authorities (DRTA) are managed by Secretaries who would coordinate with local transporters to arrange transport required for evacuation of people from affected areas. In case of shortfall in transport in a particular district, the adjoining district would mobilize the transporters in his district to assist with the evacuation of people.

#### **Role of Rescue 1122 in districts during disaster**

- The immediate evacuation of people from the disaster prone and vulnerable areas.
- Provision of immediate medical aid during any emergency and at the same time transporting the injured or sick to the nearby hospital through their team of ambulances.
- In flood situations rescuing people from drowning sites. It is a specialty of 1122 as it has its own set of divers and boats. Similarly in case of collapsed buildings or structures the 1122 is equipped with heavy machinery to cut through heavy debris and evacuate victims.
- Apart from that 1122 will be responsible deployment of fire fighters, cordoning of hazardous areas, provision of first aid and medical treatment, immediate search and rescue of victims and management of the pre-hospital emergency system.
- Rescue 1122 is well trained in setting up medical camps for provision of emergency medical treatment. These camps are setup by Rescue 1122's doctors and paramedic staff.

#### **Pre-disaster Check list for DDMA**

- Meeting of DDMA held
- Identification of vulnerable areas
- Identification of Safe places
- Preparation of contingency plan
- Bunds and encroachments visited

- Sites identified for relief camps Evacuation routes/plan
- Safe custody of Government records and essential equipment and their shifting to safer areas on receipt of flood warning
- Enlistment of department wise available resources
- Preparation of list of required relief goods/ items
- Involvement of Volunteers, NGOs and other CSOs
- Designation of Focal Person
- Preparation of District vulnerability map with varying degrees of floods
- Evacuation well in time from vulnerable areas
- Establishment of Camps – All services under one roof
- Flood warning and weather forecast: Loudspeakers announcements
- Establishment of control rooms
- Cancellation of all type of leaves of all employees Designation of Focal Persons
- Assignment of duties and responsibilities of all officers for flood emergency
- Preparation of Telephone Directories with the cell numbers of all the members of DDMA's and volunteers
- No leave during flood days; No official will leave station

#### **Disaster Emergency Control Room (functions and responsibilities)**

As already mentioned above that this district has remained safe from flood calamity due to its peculiar geographical location and topography. But to meet any unforeseen and untoward incident, adequate arrangements have been made and resources and equipments with different department have been identified which will be available at a short notice for quick response.

**Checklist for Control Room:**

- Dedicated Staff as per magnitude of the disaster
- Duty roaster of the staff
- 2 Dedicated telephone lines
- Dedicated Fax
- Wireless
- Internet and Email or any other source of communication
- Power backup

**Checklist for Relief Camp Incharge:**

- List of staff displayed with name and department teams will work in shifts
- Presence of representatives of all service providers i.e. Health, livestock, Rescue 1122, Civil Defence etc.
- No movement without the permission of Centre Incharge
- Each shift in-charge to contact District Control Room on arrival and then on departure
- In-charge will keep close liaison with SHO of the respective area
- No of affected in camp (sick, aged and children) shall be communicated daily
- Availability of at least one emergency vehicle at centre be ensured
- Keep record of private boat owners and their contacts details
- List of Doctors and private hospital in the vicinity
- List and contact of philanthropists in the vicinity
- Keeping record of donations coming directly to Centre and report the same to tehsil and District Incharge.
- Centre Incharge shall ensure vaccination of animals and humans against Communicable diseases
- List of missing persons must be displayed at all Relief Camps

**Role of Health Department**

The public sector health delivery system comprises of four tiers and as such will continue to provide services at these four tiers during and after any disaster:

Outreach and community based activities, which focus on immunization, sanitation, malaria control, maternal and child health. Primary care facilities include BHUs, RHCs. THQs and DHQs provide inpatient and outpatient care. Tertiary care hospitals located in the major cities for more specialized care.

In case of any disaster or calamity the health department will ensure that the following measures are in place;

- To provide first aid to the injured people and arrange evacuation of patients for further assistance.
- Medical camps and mobile health teams should be arranged for prevention and control of communicable diseases, immunization and provision of essential drugs.
- Health department would make a roster of all medical officers and paramedics that would be deployed to these camps and teams.
- Drugs and other medical equipment should be available at all these camps and with mobile teams. The medicine should be for relevant flood related issues, **particularly Anti-snake venom, Anti-rabies.**
- The shelters or relief camps established by the district administration should have medical centres with ambulances and special facilities for women and children.
- An emergency control room will be established in the office of Directorate General Health Services and a representative of this emergency control room would be designated to PDMA's control room.
- A list of essential medicines would be prepared by the Health department and it would ensure that medicines and other resources are present in sufficient stocks in hospitals in disaster hit areas.
- Medical colleges may be involved to create Emergency Response teams
- Health department would also coordinate with international organizations such as WHO and UNICEF.
- Extensive disease surveillances in the disaster hit areas should be carried out warnings if needed be issued through the Disease Early Warning System.

- Medical teams and paramedic staff should be mobilized and deployed for rapid assessment and quick response in the affected areas.
- A contingency plan will be prepared and submitted regarding preparedness for any disaster or calamity.
- The National Disaster Management Authority has designated WHO as the key organization that will fill the gaps in the supply of medicines, rapid diagnostic kits, and vaccinations etc.
- The department would employ female health workers in emergency areas specially, for spreading awareness regarding health risks in a disaster and for any vaccination or immunization programme that may be needed during any emergency.
- A Health and Nutrition Cluster for overall management and oversight of Health department's disaster response would be formed at the Directorate General Health office.
- In case the medicine stocks or even the infrastructure is damaged due to floods, the department would draw up a plan for early recovery of health infrastructure and service delivery.

**Civil-Military Coordination Mechanism**

District Administration have close coordination with military in all situation including Moharram and other sensitive occasion. So, in case of emergency or before emergency situation army will be called by District Administration through proper channel.

**Volunteer Network**

*E.g. how many registered volunteers, how to activate them, who will coordinate with them etc.*

There are almost / approximately 500 volunteers registered with District Civil Defense Department. DO (CD) already made a comprehensive plan to mobilize these volunteers and his department will coordinate with them in case of emergency. District Officer (Civil Defense) is the focal person to coordinate and mobilize with volunteers. The Rescue 1122 has teams of volunteers which are named as CERT. These will also be mobilized by the District Emergency Officer Rescue 1122 in case of any disaster.

# RISK ANALYSIS

## 1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	3	4	12
Urban Flooding			
Flash Floods			
Hill Torrent			
Glacial Lake Outburst Flood (GLOF)			
Landslide	2	1	2
Tornado			
Earthquake	5	4	20
Drought			
Epidemic	6	5	30
Fire Incidents			
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)			
Environmental Hazards (industrial accidents, severe pollution etc.)			

Risk = Impact x Likelihood

Low : 1-7

Medium : 8-14

High : 15-25

## 2.Hazards

- *Disasters occurred over the past two to three decades and their impact on communities and development sectors*
- *Provide a brief description of the hazards being planned for (medium and high risks), including potential location that could be affected;*
- *Briefly outline the triggers*
  - ✓ Normally the phenomenon of Flood does not occur in this region on large scale because of uneven terrain.
  - ✓ Moreover there is no major river passing in the District Chakwal except river soan but in river soan flood does not occur. No major disaster occurred from last fifteen years and damages are also not considerable.

District detail map with vulnerable points, hazards, planned camps, health facilities, warehouses etc.

Facility and Community based MNCH/FP Service Delivery in District Chakwal

**REFERENCES**

- Village populated district this permanent temporary
- Check For High Storage Temp. Tank
- High Green
- Spring Wells used as the default Tank-ground dry
- River beds during High level in high Land
- Warning boundary
- Bank area often notified or damaged or eroded
- Can track pack track from public point
- Railway Road page: dhakc.org
- Boundary International: govnet
- district or tribal
- tribal line
- Headquarters district
- tribal
- Special zones administrative, health or tribal

Scale 1:175,000

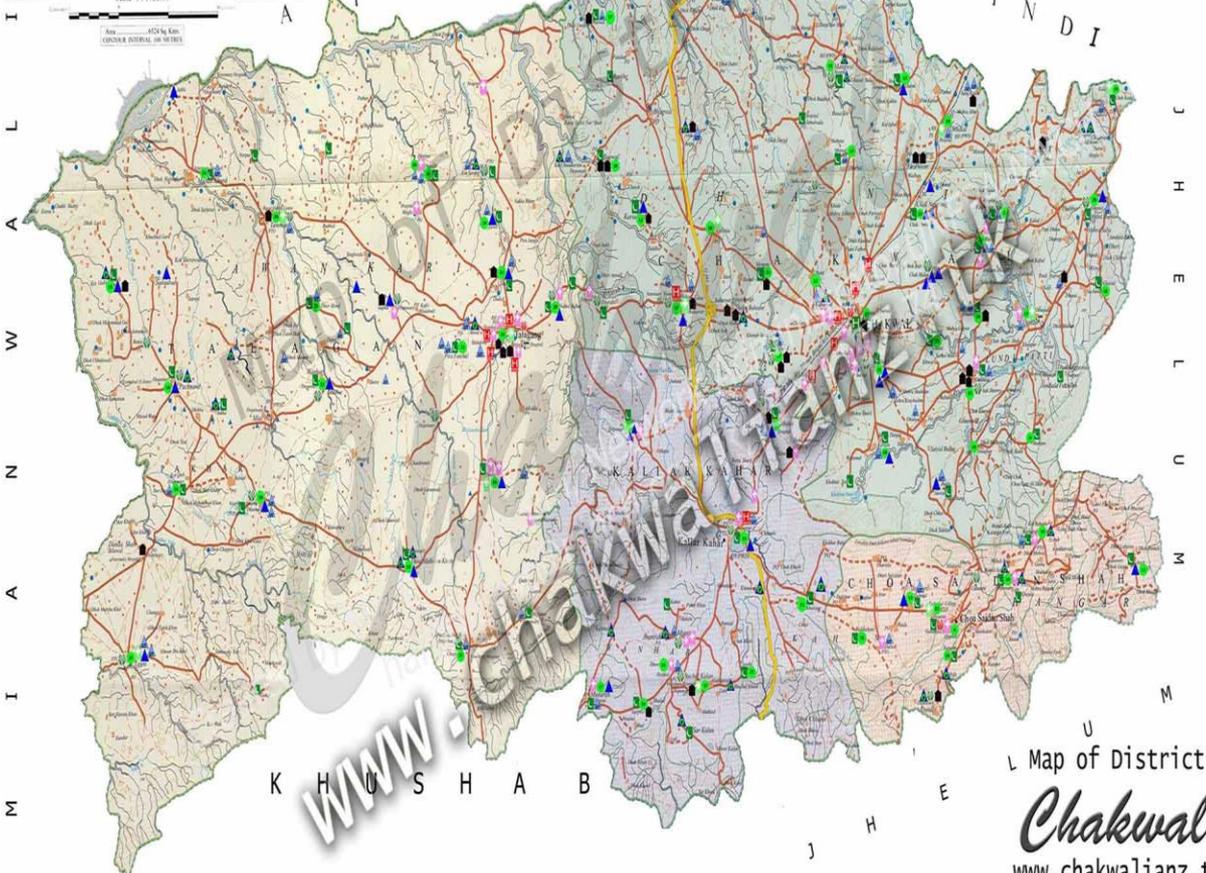
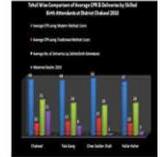
Area: 4274 Sq. Km  
(GOVERNOR GENERAL OF PAKISTAN)

CHAKWAL  
Tahang  
KAHUN BANJAR



Population of Chakwal District by Sex and Age Group (2017)

Age Group	Male	Female	Total
0-4	10,000	10,000	20,000
5-9	10,000	10,000	20,000
10-14	10,000	10,000	20,000
15-19	10,000	10,000	20,000
20-24	10,000	10,000	20,000
25-29	10,000	10,000	20,000
30-34	10,000	10,000	20,000
35-39	10,000	10,000	20,000
40-44	10,000	10,000	20,000
45-49	10,000	10,000	20,000
50-54	10,000	10,000	20,000
55-59	10,000	10,000	20,000
60-64	10,000	10,000	20,000
65-69	10,000	10,000	20,000
70-74	10,000	10,000	20,000
75-79	10,000	10,000	20,000
80-84	10,000	10,000	20,000
85-89	10,000	10,000	20,000
90-94	10,000	10,000	20,000
95-99	10,000	10,000	20,000
100+	10,000	10,000	20,000



**Map Legends**

Name	Legend	Number
Basic EoDC/FP Facility 247	[Green Square]	11
Comprehensive EoDC/FP Facility	[Green Square]	1
Private EoDC/FP (SBC) 248	[Green Square]	40
Private Basic EoDC/FP Facility 247	[Green Square]	38
Private Comprehensive EoDC/FP Facility	[Green Square]	10
MSA	[Red Circle]	0
PHC	[Green Circle]	26
Working LHM	[Green Circle]	1115
PHU/1 Trains LHM	[Green Circle]	10
Deployed CHVs	[Blue Triangle]	33
CHVs Under Training in field	[Blue Triangle]	58
IMC (ANC/FP)	[Green Square]	4
Maternal Deaths 2010	[Black Square]	14

Area	6524 Sq. Km
District Total Population	1271851
LHM Covered population 2010	1088795
LHM Covered Population percentage 2010	82%
15-49 CBAs (22% of Population)	901802
Maternal CBAs (18% of Population)	246929
< 5 year Children's (17% of Population)	232111
Expected Population Per Year (0.5% of Population)	48014
Expected Births per Year (0.5% of Population)	54285

Source:

Map of District  
**Chakwal**  
www.chakwalianz.tk

### 3. Response & Operational Capacity

*Briefly describe the existing response capacities in District (including government and NGO partners)*

Mostly response mechanism is comprising from Government sector. However, main national NGOs like Plan International always coordinated in good manners. So according to need these national NGOs may be involved in relief work.

## 4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	04	04	0	0
OBM	04	04	0	0
De-watering sets	15	15	0	0
Navigators	0	0	0	0
GIS devices	0	0	0	0
Life Jackets	63	63	0	0
Life Ring	67	0	0	0
Life Lines	02	02	0	0
Scuba diving suit with complete accessories	02	02	0	0
First Aid Kits	14	14	0	0
Rescue Bag			0	0
Safety Harnesses	4	4	0	0
Ambulances	13	13	0	0
Fire Brigade	5	5	0	0
Water Tanks / Bouzers	8	8	0	0
Extendable Ladders			0	0
Hydraulic Cutter	1	1	0	0
Sonar Rader	0	0	0	0
Jumping Sheet			0	0
Dumpers	0	0	0	0
Excavators	0	0	0	0
Cranes	0	0	0	0
Bulldozer	0	0	0	0
Boat Carrier/Trolleys/Tractor Trolley	11	11	0	0
Pickups/Jeeps/4x4 vehicles/Mini Trucks	08	08	0	0
Searchlight	1	1	0	0
Tent	05	05	0	0
Mosquito Net	05	05	0	0
Plastic Mat	05	05	0	0
Blanket	0	0	0	0
Any other main relief/rescue equipment	0	0	0	0
Generator Sets	03	03	0	0
Gas-Cutters	0	0	0	0
Sonar Radars	0	0	0	0
Scuba Diving Set	0	0	0	0
Navigator/GPS Tracker	0	0	0	0
<b>Jetter</b>	1	1		
<b>Sucker</b>	1	1		

## 5.Gaps and Constraints

- *Briefly outline the capacity gaps in the provision of rescue and response;*
- *Describe major obstacles to providing humanitarian assistance (security, access constraints, administrative obstacles, logistics, etc.)*

For rescue and response there is capacity gaps of equipments. Due to non availability of funds.

## MITIGATION STRATEGY

- ✓ Briefly describe what measure could be taken to reduce the impact of the potential disasters.
- ✓ Strategic pre-positioning of available relief stocks
- ✓ Public education and community awareness

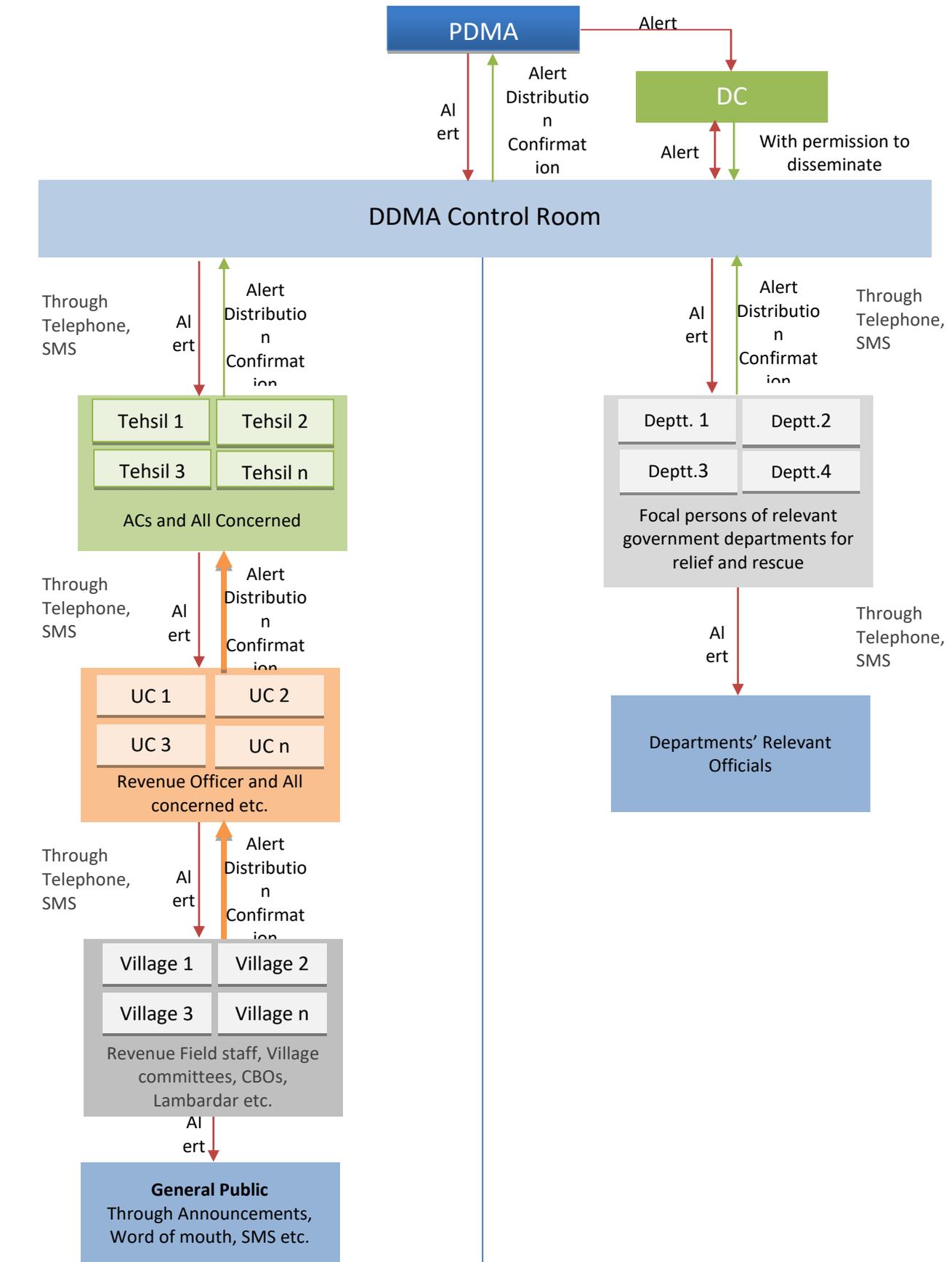
Hazards	Mitigate Actions	Responsible Department
Floods	<ul style="list-style-type: none"> <li>✓ By 24 hours watching arrangements of hydraulic structure.</li> <li>✓ Spilway of Dam will flow with natural form in Nalla.</li> <li>✓ In case of emergency, the pubic living surrounding the Nullah will be informed through the announcement of District Administration, Local FM Radio and in Mosque.Schools are flood free.</li> </ul>	Irrigation Department (Small Dam Organization)
Urban Flooding	N/A	N/A
Flash Floods	N/A	N/A
Hill Torrent	N/A	N/A
Glacial Lake Outburst Flood (GLOF)	N/A	N/A
Landslide	Awareness campaign should be collectively launched at the hilly area. Concerned Tehsil Administration	Concerned Tehsil Administration

Tornado		
Earthquake		
Drought		
Epidemic	Provision of Medical cover	Health
Fire Incidents	Awareness campaign must be launched for common causes of fire.	
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)		

<p>Environmental Hazards (industrial accidents, severe pollution etc.)</p>	<p>Hazard: Environmental Hazards (industrial accidents, severe pollution etc.)</p> <p>Mitigate Actions:</p> <ul style="list-style-type: none"> <li>☐ In built effluent treatment technologies may be adopted rather end of pipe treatment.</li> <li>☐ Environmental impact assessment (EIA)/ Initial Environmental Examination (IEE) studies must be conducted before commencement of any major or minor project or before starting the construction and operational phase of project as per law.</li> <li>☐ Personal protective equipments (PPEs), fire fighting system and proper safety measures may be adopted by the industrial units.</li> <li>☐ All staffs and workers may be provided proper training keeping in view the nature, type and possible Environmental hazards.</li> <li>☐ Maximum tree plantation may b adopted where ever possible in and around the industrial projects to reduce the impact of Environmental pollution.</li> </ul>	

# EARLY WARNING

## Information Flow Diagram



## Alertness Levels

Following four levels alertness have been established:

<p><b>Level-D</b> (Disaster threat is perceptible)</p>	<p>DDMA shall conduct monthly meetings besides atleast 2 mock exercises as per DDMP, well in time, to make the concerned officers/officials understand their role and responsibility for better coordination and testing of rescue and relief equipment. DDMA shall also ensure the physical presence of concerned staff deputed and availability of equipment/resources for all designated vulnerable sites within given time frame during disaster. Vulnerable site’s inspections and necessary works/action shall be carried out as mitigation measures.</p>
<p><b>Level-C</b> <b>(Alert)</b> (Warning issued but likelihood of occurrence is less than 100%)</p>	<p><b>Activities to be undertaken in level D</b> + DDMA shall issue “<b>alert</b>” to all concerned for the vulnerable area. DDMA and LDMA (tehsil level) control rooms be made operational 24/7 and ensure availability of all required (available and additional) resources for on call mobilization and monitor the situation 6 hourly. Only DC and DPO shall grant leave according to the situation.</p>
<p><b>Level-B</b> <b>(High Alert)</b> (Disaster threat is imminent)</p>	<p><b>Activities to be undertaken in level C</b> + DDMA shall issue EW to all stakeholders and “<b>High Alert</b>” for the district to ensure that all additional HR and material resources including volunteers has reported to their assigned duties, and all resources for evacuation and disaster management have been mobilized as per DDMP. All emergency (health, fire, rescue 1122, TMA etc) facilities shall work 24/7 with full staff strength. DDMA shall monitor the situation on hourly basis.</p>
<p><b>Level-A</b> <b>(Red Alert)</b> (Disaster is materialized)</p>	<p><b>Activities to be undertaken in level B</b> + DDMA shall respond to the emergency immediately and shall carry out rescue and relief operation as defined in DDMP and shall continuously monitor the situation. Resources of adjoining districts shall be mobilized and Army may be called keeping in view the magnitude of the disaster.</p>

## Early Warning

*Briefly describe how the early warning will be received from provincial level?*

*Who is the focal person at district level?*

*Functions of District/Tehsil Emergency Control Rooms in early warning*

*How the early warning will be communicated to relevant departments for different disasters? What actions each relevant department should take after receiving the early warning e.g. evacuation.*

*How the early warning will be communicated to the relevant population? E.g. through Patwaris, SMS, Announcements, Media etc.*

Mechanism will be initiated through Patwaris at tehsil level and each Assistant commissioner will be responsible to communicate details through SMS and phone to higher ups. Media will be involved according to the situation and severity.

## RESCUE STRATEGY

- *What actions will be taken as an immediate response to the situation? E.g. Evacuation, medical assistance*
- *Who does what and when? Responsible departments/agencies*
- *How and when Pakistan Army will be requested to support the rescue activities*
- *Camp sites identified? List at Annex I.*

First early warning system activate the execute the affecties to nearest relief centers for first aid. 1122 and civil defence along with local communities to avacuate the effected community..

Medical Assistance

- Who does what and when? Responsible departments /agencies

Health Department and Rescue 1122 will be responsible of medical assistance.

Provision of Ambulances to rescue the patients by fetching them to health facilities and then provision of medical cover to the patients.

The roles and responssibilities are described earlier all departments will work according to their mandate.

-The district administration is reponsibile to call Pakistan Army for back up support.

-The camps site have been identified and CEO (DEA) will be reponsibile to provide nearest school for camping or temporary shelter.

## HUMANITARIAN ASSISTANCE

- *How damage and losses data will be collected and communicated to higher level?*
- *How the priority needs (e.g. food, shelter, health etc.) will be determined?*
- *What activities will be carried-out to provide assistance to the affected population and by whom?*
- *What assistance will be provided?*
- *Standardization of different packages/kits e.g. food, tents*
- *Humanitarian Assistance monitoring mechanism – to avoid duplication and identify gaps*
- *Minimum standards for camps, if camps are established*
- *What is the current capacity in the district? Enough for how much caseload?*
- *Explain how protection, gender and age, environment and other relevant cross-cutting issues that will be addressed or mainstreamed into the humanitarian assistance strategy*

### Damage and Losses Data

- Data regarding losses/damages will be collected through filed formation of various tires and through wirelss, telephone with the Control Room established in the DC Office.

### Priority Needs

- Priority neededs will be determined after survey of affected arears and according to magnitude of dsaster.

### Activities of assistance

- Activities based on the magnitude of dsaster.

### What assistance

- Assistance in the evacuation, medical treatment, food, shelter and damages will be provided.

### Standardization of Packages

- As per provision of PDMA..

### Assistance Mechanism

- UC chairman and general councilor will provide list of effetees and revenue staff will recheck to avoid duplication.

### Minimum standard for camp

- As per PDMA standard.

### Current capacity of district

- Current capacity is enough for any any kind of disaster in the district.

### Relevant cross-cutting Issues

- N/A.

## ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

S#	Location	No. of persons which can be accommodated	GPS Coordinates	S#	Location	No. of persons which can be accommodated	GPS Coordinates
1	GHS # 1 (Boys) Chakwal	200	X: 32.93 Y:72.85	16			X: Y:
2	Municipal Stadium Chakwal	200	X: 32.93 Y:72.84	17			X: Y:
3	Sports Complex 3 Marla Scheme Chakwal	5,000	X: 32.94 Y:72.86	18			X: Y:
4	Ground Opposite Comunity Centre Talagang Road Chakwal	2,000	X: 32.93 Y:72.84	19			X: Y:
5	Govt Islamia High School Chakwal	200	X: 32.92 Y:72.85	20			X: Y:
6	Sarpak Ground Chakwal	200	X: 32.93 Y:72.84	21			X: Y:
7	Govt Post Graduate College (Boys) R/Pindi Road Chakwal	200	X: 32.93 Y:72.87	22			X: Y:
8	Govt Girls Degree College Chakwal	1,000	X: 32.92 Y:72.84	23			X: Y:

## ANNEX II: LIST OF HAZARD PRONE VILLAGES/REVENUE ESTATE (NAMES REQUIRED)

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Choa Saidan Shah	Choa Saidan Shah	Choa Saidan Shah	Choa Saidan Shah
Urban Flooding	Choa Saidan Shah	Choa Saidan Shah	Choa Saidan Shah	Choa Saidan Shah
Flash Floods				
Hill Torrent				
Tornado				
Earthquake				
Drought				
Epidemic				
Environmental Hazards (industrial accidents, severe pollution etc.)	Kallar Kahar	Khairpur	Khairpur	Khairpur, Chhoi, Maloot, Khandoa

## ANNEX III: LIST OF HEALTH FACILITIES AND THEIR VULNERABILITY TO HAZARDS

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	BHU Mulhal Mughlan	X: Y:	Primary (BHU)		Earthquack
2	Nachindi	X: Y:	Primary (BHU)		Earthquack
3	Sohawa Dewalian	X: Y:	Primary (BHU)		Earthquack
4	Chak Umra	X: Y:	Primary (BHU)		Earthquack
5	Chakral	X: Y:	Primary (BHU)		Earthquack
6	Shahpur Syedan	X: Y:	Primary (BHU)		Earthquack
7	Jandial Faiz Ullah	X: Y:	Primary (BHU)		Earthquack
8	Saiglabad	X: Y:	Primary (BHU)		Earthquack
9	Dab	X: Y:	Primary (BHU)		Earthquack
10	Kariala	X: Y:	Primary (BHU)		Earthquack
11	Khoker Zar	X: Y:	Primary (BHU)		Earthquack
12	Mureed	X: Y:	Primary (BHU)		Earthquack
13	Maingon	X: Y:	Primary (BHU)		Earthquack
14	Karsal	X: Y:	Primary (BHU)		Earthquack
15	Roopwal	X: Y:	Primary (BHU)		Earthquack
16	Ranjah	X: Y:	Primary (BHU)		Earthquack
17	Neela	X:	Primary (BHU)		Earthquack

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
		Y:			
18	Warwal	X: Y:	Primary (BHU)		Earthquack
19	Dullah	X: Y:	Primary (BHU)		Earthquack
20	Mangwal	X: Y:	Primary (BHU)		Earthquack
21	Jamalwal	X: Y:	Primary (BHU)		Earthquack
22	Saral	X: Y:	Primary (BHU)		Earthquack
23	Bheen	X: Y:	Primary (BHU)		Earthquack
24	Padshahan	X: Y:	Primary (BHU)		Earthquack
25	Jhatla Jaswal	X: Y:	Primary (BHU)		Earthquack
26	Minwal	X: Y:	Primary (BHU)		Earthquack
27	Jand	X: Y:	Primary (BHU)		Earthquack
28	Dharabi	X: Y:	Primary (BHU)		Earthquack
29	Nakka Kahut	X: Y:	Primary (BHU)		Earthquack
30	Tehi	X: Y:	Primary (BHU)		Earthquack
31	Jasial	X: Y:	Primary (BHU)		Earthquack
32	Kot Sarang	X: Y:	Primary (BHU)		Earthquack
33	Dhouler	X: Y:	Primary (BHU)		Earthquack
34	Dhermond	X: Y:	Primary (BHU)		Earthquack
35	Pachnand	X: Y:	Primary (BHU)		Earthquack

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
36	Bhudial	X: Y:	Primary (BHU)		Earthquack
37	Multan Khrud	X: Y:	Primary (BHU)		Earthquack
38	Venhar	X: Y:	Primary (BHU)		Earthquack
39	Dhurnal	X: Y:	Primary (BHU)		Earthquack
40	Kot Gullah	X: Y:	Primary (BHU)		Earthquack
41	Chinji	X: Y:	Primary (BHU)		Earthquack
42	TM Khan	X: Y:	Primary (BHU)		Earthquack
43	Pira Fatehal	X: Y:	Primary (BHU)		Earthquack
44	Dhoke Hum	X: Y:	Primary (BHU)		Earthquack
45	Ghool	X: Y:	Primary (BHU)		Earthquack
46	Patwali	X: Y:	Primary (BHU)		Earthquack
47	Bhillomar	X: Y:	Primary (BHU)		Earthquack
48	Sukka	X: Y:	Primary (BHU)		Earthquack
49	Dulmial	X: Y:	Primary (BHU)		Earthquack
50	Badshahpur	X: Y:	Primary (BHU)		Earthquack
51	Basharat	X: Y:	Primary (BHU)		Earthquack
52	Ara	X: Y:	Primary (BHU)		Earthquack
53	Lehar Sultanpur	X: Y:	Primary (BHU)		Earthquack
54	Kajoola	X:	Primary (BHU)		Earthquack

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
		Y:			
55	Bhaun	X: Y:	Primary (BHU)		Earthquack
56	Bharpur	X: Y:	Primary (BHU)		Earthquack
57	Kallar Kahar	X: Y:	Primary (BHU)		Earthquack
58	Khairpur	X: Y:	Primary (BHU)		Earthquack
59	Munara	X: Y:	Primary (BHU)		Earthquack
60	Kahut	X: Y:	Primary (BHU)		Earthquack
61	Dhermond	X: Y:	Primary (BHU)		Earthquack
62	Noorpur	X: Y:	Primary (BHU)		Earthquack
63	Sardhi	X: Y:	Primary (BHU)		Earthquack
64	Sar Kalan	X: Y:	Primary (BHU)		Earthquack
65	DHQ Hospital Chakwal	X: Y:	DHQ		Earthquack
66	THQ Choa Saidu Shah	X: Y:	THQ		Earthquack
67	THQ Talagang	X: Y:	THQ		Earthquack
68	City Hospital Talagnag	X: Y:	City Hospital		Earthquack
69	Rhc Dhudial	X: Y:	RHC		Earthquack
70	Dhummon	X: Y:	RHC		Earthquack
71	Buchal Kalan	X: Y:	RHC		Earthquack
72	Balkassar	X:	RHC		Earthquack

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
		Y:			
73	Munday	X: Y:	RHC		Earthquack
74	Tammon	X: Y:	RHC		Earthquack
75	Lawa	X: Y:	RHC		Earthquack
76	Kot Qazi	X: Y:	RHC		Earthquack
77	Pir Phullahi	X: Y:	RHC		Earthquack
78	Jhatla	X: Y:	RHC		Earthquack

## ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	N/A		X: Y:			

## ANNEX V:LIST OF INDUSTRIES WITH THEIR RISK LEVEL

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
1	N/A		X: Y:				

## ANNEX VI: LIST OF NGO WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Falah Foundation, Bheen Chakwal.	Local	District Chakwal	Health Welfare youth Welfare Donation in kinds of IDPs	P.(Retd Bridger ) Zafar Iqbal G.S. Muhammad Ishaq 0315-5233056	0333-5176333
2	Walana Development Organization Walana Ckl.	Local	District Chakwal	Computer literacy Industrial Home. S.I. in P. School Grow Wheat Campaign. Donation in kinds of IDPs.	P.Najhib Shaheen Ghulam Ali.(died) 0333-5909860 G.S. Muhammad Sher Khan 0300-5344009	0334-1547655
3	Labaik Welfare Society Chakwal City.	Local	District Chakwal	Ambulance Services, Physiotherapy Centre, Family Health Clinic,	Pr. Mehar Khudad 0543-551346,0333- 5902050 G.S Sadiq Hussain 0333-5784070	0333-5902050
4	DEAP Development Organization H.# 17/104 Mohallah Ghousia Jhelum Road Chakwal city	Local	District Chakwal	Welfare of Child, Women Welfare Patient Welfare	Pr. Atif Abbas 0333-5785799 G.S Muhammad Fiaz 0333-5916591	0333-5785799
5	Minhaj ul Quran Welfare Society Chak Boun Chakwal	Local	District Chakwal	Computer Literacy, Industrial Home	P. Nazar Hussain 0333-5279021 0312-5279021 G. S Muhammad Ashraf 0301- 5784473	0333-5279021
6	Jilani Welfare Foundation Village Chak Bhoun Tehsil & District Chakwal	Local	District Chakwal	Free Tuition Center Grow Wheat Campaign	Pr. Ghulam Jilani 0333-5909678 G.S Tajmal Hussain 0333-5904230	0333-5909678
7	Ujala Welfare Organization Moh. Sarpak Chakwal City	Local	District Chakwal	Children Welfare, Youth Welfare Women Welfare	Pr. Rafaqat Naaz 0323-2335831 G.S. Nusrat Nisar 0300-5527167	0323-2335831
8	Gul Sher Welfare Foundation Chakwal city	Local	District Chakwal	Physiotherapy Centre, special School Deaf & Dump child (up to9th class). (Provision of Tricycle & Equipment of disable person, outreach free camp for disable persons,	Pr. Ch. Waseem Zafar0334- 8704700G.S. Ch. Naeem Iftikhar0543-553043	0334-8704700
9	Peace Welfare Organization Minhas Plaza 2 nd Floor Pindi Road Chakwal	Local	District Chakwal	Women Welfare recreational social education	Pr. Muhammad Bilal 0306-5588005 G.S. Muhammad Waqas Shahid 0312-2001191	0306-5588005
10	Madni Welfare Society GTS	Local	District Chakwal	Women Welfare , Social	Pr. Muhammad Irfan	0336-1450786

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
	Workshop Kahut Market Talagang Road Chakwal city			Education, Media Welfare	0336-1450786 G.S Javeed Mukhtar 0307-5692844	
11	Bazm-e-Shah Murad Welfare Society Taqia Shah Murad Tehsil Chakwal.	Local	District Chakwal	Rehabilitation of Disabled Person, Education Assistance	P. pro. Muhammad Khan 0331-5977179 G. S. Babu Ulfat Hussain 0343-5718814.	0331-5977179
12	Dhan Taraqiati Tanzeem dhoke Mureed Tehsil & District Chakwal	Local	District Chakwal	Welfare of Child/ Women Welfare /Social Education.	Pr. Anwar Hussain 0344-5766278 G.S. Qasir Anwar03445886001	0344-5766278
13	Al-Falah Development Organization Saidpur Teshil & District Chakwal	Local	District Chakwal	Youth Welfare, Women Welfare, Coordination with NGOs	Pr. Muhammad Munir 0333-5905752 G,S. Malik Muhammad Rizzaq 0303-5262904	0333-5905752
14	(BEHOLDE)Welfare Association Gulistan Colony Rawalpindi Road Chakwal	Local	District Chakwal	Welfare of women, Child welfare, Welfare of disabled	Pr. Shahbaz Khan 0301-5785412 G.S Reynolds Dean 0313-5787600	0301-5785412
15	Islamic Young Welfare Association Khara Chakwal.	Local	District Chakwal	Old age Shelter Home, Environment , Training & Awareness, Education	Pr. Zafar Iqbal 0333-5903225 G.S Sajjad Hussain 0333-5908544	0333-5903225
16	Jaanat Welfare Foundation Al- Feroze Plazar 1st Floor Near Punjab Bank Chakwal	Local	District Chakwal	Women Welfare , Youth Welfare	Abdul Haque 0300-5976737 GSQazi Ghulam Abbas 0333- 5323731	0300-5976737
17	Community Development Council Chakwal	Local	District Chakwal	Women Welfare Youth Welfare	Pr.Abdul Rashid 0331-5234748G.S Muhammad Masood	0331-5234748
18	Munawar Welfare Foundation Pindi Road Chakwal City.	Local	District Chakwal	Women Welfare	Pr. Muhammad Bashir 0300-849628 OG.S Khuram Shahzad 0336-5782223	0300-849628
19	Dhanni Welfare Organization Maghi Road Mollah Qutababad Gali No. 08 Chakwal City.	Local	District Chakwal	Eye Operation Outdoor facility for eyes Patient and MCH Centre. Outreach	Pr. Ali Ahmed0 333-5788514 G.S Tariq Arman 0323-5914151	0333-5788514
20	Saya Social Welfare Development Organization Mohallah Farooqi Jubair pur Road	Local	District Chakwal	Eyes camping. Medical Camp for IDPs	Pr .Nayyar Sultana 0312-5719448 G.S Shahda Behum 0333-5009733	0312-5719448

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
	Chakwal.					
21	Chakwal Welfare Organization Bhoun Road Wali Town Abbasi Medical Complex Chakwal	Local	District Chakwal	Youth Welfare / Women Welfare / Traditional / Welfare of Needy People	Pr. Muhammad Bilal Abbasi 0308- 500606G.S Taim ur Rehman0331- 5955550	0308-500606
22	Life Welfare Foundation Chak Nourang Phatak Chakwal	Local	District Chakwal	Patient Welfare, Old age person , Social Training, Social Education	Pr. Muhammad Ameen 0345-5774038 G.S Muddsar Alyas 0333-5414081	0345-5774038
23	New Jinnah Taraqati Tanzeem Narrang Chakwal	Local	District Chakwal	Social Education, Patient Welfare, Welfare of Disabled	Pr. Syed Iqbal Hussain Shah 0307-5673010G.S Syed Khawar Iqbal Shah 0340-0577701	0307-5673010
24	A-L-M Nazir Education Welfare foundation Mohallah Allama Iqbal Town Galli No.05 Chakwal city	Local	District Chakwal	Children Welfare, Women Welfare, Youth Welfare, Patient Welfare	Pr. Ch Waseem Zafar 0334-5704700 G.S. Ch. Liqat Ali 0543-543362	0334-5704700
25	Association for Rural Development Tatral Chakwal	Local	District Chakwal	Welfare of Women, Welfare of disabled, Child welfare	Pr. Atiq ur Rasool 0334-5265007 G.S Zulqurnain Manwar 0334-5683996	0334-5265007
26	Social Welfare Soceity Nachandi Tehsil Chakwal	Local	District Chakwal	Recreational activates	Pr. Sabir Hussain 0332-4979446 G.S. Tasleem Akhtar 0334-5612804	0332-4979446
27	Razia Ahmed Memorial Organization Mohallah Sergujra Ghrabi Kazim abad Chakwal	Local	District Chakwal	Women Welfare, Patient Welfare, Children Welfare	Pr. Muhammad Bilal Ahmed 0323-3069314 G.S. Atif Abbas 0333-5785799	0323-3069314
28	Munawar Welfare Foundation opp. Govt. high School Main Bazar Khanpur Chakwal	Local	District Chakwal	Former Welfare	Pr. Tariq Mehmood 0345-5004434 G.S. Muhammad Zumard Khan 0334-5153115	0345-5004434
29	Rehbar Development Organization Dewalian Chakwal	Local	District Chakwal	Women Welfare, Children Welfare	Syed Mehboob Hussain Shah 0344-5961029 G.S. Sultan Mehmood 0344-5797989	0344-5961029
30	Shah Latif Memorial Welfare Society Dewalian Chakwal	Local	District Chakwal	Women Welfare , Children Welfare	Pr. Malik Muhammad Asghar 0333-3402332 G.S Zarait Hussain Shah 0333- 5589138	0333-3402332

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
31	Johar Welfare Foundation Mohallah Jafarabad Chakwal	Local	District Chakwal	Women Welfare , Children Welfare	Pr. Mariam Bibi 0301-5772029 G.S.Ghulam Fatima 0333-5006174	0301-5772029
32	Tameer-e-Gulshan Organization Bhagwal Chakwal	Local	District Chakwal	Women Welfare , Children Welfare	Pr. Muhammad Ashrif 0333-5289424 G.S. Muhammad Akram 0333-5772034	0333-5289424
33	Chown Welfare Organization H.No.B-1 1/164 Gali No.03 Allama Iqbal Town Chakwal	Local	District Chakwal	Women Welfare , Lega; aid poor women	Pr. Ifat Naz Ch. 0333-1251414 G.S. Farah Naz 0543-543045	0333-1251414
34	Village Organization Dhoke Panah Chakwal	Local	District Chakwal	Women Welfare, V illage Welfare	Pr. Ghulam Ali 0333-5267694 G.S. Naveed Akhtar 0345-7292544	0333-5267694
35	Legal Aid & Justice Welfare Organization Hospital Road Chakwal City	Local	District Chakwal	Free Legal aid needy person	Pr. Ch.Sakindar Ali Khan 0333-5902393 G.S. Muhammad Asif Malik 0333-5900881	0333-5902393
36	Shaheen Development Organization Khanwal Chakwal	Local	District Chakwal	Women Welfare, Children Welfare	Pr. Raja Muhammad Latif 0344-5779916 G.S. Raja Muhammad Ilyas 0332- 5929441	0344-5779916
37	Al-Mumtaz Welfare Foundation Mangwal Chakwal	Local	District Chakwal	Women Welfare, Children Welfare	Pr. Allah Dad Khan 0331-5768950 G.S. Raja Muhammad Latif 0344-5779916	0331-5768950
38	Shara Welfare Soceity Latifal Chakwal	Local	District Chakwal	Women Welfare, Children Welfare	Pr. Taj Muhammad Khan 0333-5003034 G.S. Ameer Khan	0333-5003034
39	Al- Faisal Welfare Association Faisal Colony Chakwal	Local	District Chakwal	Women Welfare, Children Welfare	Pr. Dr. Muhammad Sharif 0333-5908048 G.S. Muhammad Afzal 0333- 5917986	0333-5908048
40	Shah Murad Welfare Foundation Khan Pur Tehsil Chakwal	Local	District Chakwal	Women Welfare, Children Welfare	Pr. Azhar Mehmood 0331-5065430,0301- 5662430 G.S. Abdul Rashid Mirza 0333-5609024	0331-5065430
41	Tanzeem Roshni Chakwal City	Local	District Chakwal	Disabled person	Pr. Rehana Baber G.S. Rafiqat Naz	
42	New Rising Sun Welfare Development Society Dohrian Chakwal	Local	District Chakwal	Women Welfare Youth Welfare	Pr. Abida Shaheen Akhtar 0334- 8738424 G.S.Manzoor Hussain 0346-5780680	0334-8738424
43	Taraqiyati Tanzeem Ghugh Chakwal	Local	District Chakwal	Women Welfare Youth Welfare	Pr. Muhammad Sajjad 0321-9327354 G.S Ghulam Shabir	0321-9327354

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
					0306-3168154	
44	Friends Welfare Association Firsr Floor Gulsher Firm Talagang Road Chakwal	Local	District Chakwal	Women Welfare Youth Welfare	Pr. Ch. Wasif Hussain 0300-5474172 G.S. Syed Zulfiqar Hussain 0333-9551214	0300-5474172
45	Voluntary organization for improvement of community education & health (VOICEH Chakwal)	Local	District Chakwal	Health	Pr.Mrs Samira Hina Mehdi	
46	Welfare Association Whali Zir	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Haji Bashir 0346-5773021	0346-5773021
47	People Welfare Council Lahri Pungrian	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Doctor Abid 0332-5900927	0332-5900927
48	Anjuman Falah-o-Behbood Buchal Kalan	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Malik Nusrullah 0333-3904208	0333-3904208
49	Social Welfare Committee Dulmial	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Malik Riaz Ahmed 0301-8554286	0301-8554286
50	People Welfare Council Khair Pur	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Nazir Hussain 0334-8737991	0334-8737991
51	Welfare Society Watli	Local	District Chakwal	1-Welfare for women (PWP	Haq Nawaz 0346-5987379	0346-0346-

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
				Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children		5987379
52	Al-Madad Welfare Society Nali	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	3475656754	3475656754
53	Social Welfare Society Saloi	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Raja Maqbool 0543-599242	0543-599242
54	Irada Buchal Kalan	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Abrar-ul-Haq 0332-5195749	0332-5195749
55	Tameer-e- Millat Social Welfare Society Khandowa Tehsil Kallar Kahar Chakwal	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Pr. Sabir Sultana 0334-0571671 G.S. Muhammad Alim 0336-5742098	0334-0571671
56	IRADA Youth Welfare Foundation Sargodha Road Kallar Kahar	Local	District Chakwal	Youth Welfare, Women Welfare, Coordination with NGOs	Pr. Mubashir Nadim 0331-5982414 G.S. Farrukh Shahzad 0333-5906783	0331-5982414
57	Baba Qutab Shah Social Welfare Committee Sarkalan Kallar Kahar	Local	District Chakwal	Welfare & Development of Peoples Education Skillsof Women	Pr. Sher Muhammad 0543-455123 G.S.Malik Muhammad Suleman 0347-5119244	0543-455123
58	Islahi Committee Gufanwala	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of	M.Farooq 0333-5423624	0333-5423624

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
				Youth 4-Welfare Of Children		
59	Welfare Association Wahulah	Local	District Chakwal	1-Welfare for women (PWP Center) 2-Disabled Welfare 3-Welfare of Youth 4-Welfare Of Children	Muhammad Iyaz 0333-5904352	0333-5904352
60	Social Welfare Society Kot Sarang	Local	District Chakwal	1. Women Development 2. Help of Needy Person 3. Amulance Service	Abdul Rehman 03159593235	03159593235
61	Socila Welfare Society Multan Khurd	Local	District Chakwal	1. Women Development 2. Help of Needy Person	Fayaz Ahmed Ghara 03335921563	03335921563
62	Social Welfare Society Dhurnal	Local	District Chakwal	1. Women Development	Zafar-ul-Haq 03005691547	03005691547
63	Jinah Welfare Society Malikwal	Local	District Chakwal	1. Women Development 2. Help of Needy Person	Muhammad Arshed 03008523738	03008523738
64	Rural Public Welfare Society Bhilomar	Local	District Chakwal	1. Women Development 2. Help of Needy Person	Nazar Hussain Bhatti 03065306936	03065306936
65	Shaoor Welfare Foundation Nakka Kahut	Local	District Chakwal	1. Health 2. Help of Needy Person	Farida Malik 03305780641	03305780641
66	Masabieh Foundation Lawa	Local	District Chakwal	1. Education 2. Help of Needy Person	Saleem Aftab 03008544396	03008544396
67	Al Falah Women Welfare Foundation Jhatla	Local	District Chakwal	1. Women Development 2. Help of Needy Person	Abida Zafar 03155758190	03155758190
68	Social Welfare Council Talagang	Local	District Chakwal	1. Education 2. Help of Needy Person	M. Ashraf Iqbal 03005785891	03005785891
69	Rural Aria Development Talagang	Local	District Chakwal	1. Health 2. Help of Needy Person	Gh. Ghulam Rabani 03009543733	03009543733
70	Talagang Rural Aria Development Akwal	Local	District Chakwal	1. Women Development 2. Help of Needy Person	Zafar Iqbal 03325344897	03325344897
71	Tanzeem Al Khidmat Dhurnal	Local	District Chakwal	1. Help of Needy Person	Qazi Hafiz Ali 03085030932	03085030932
72	Al- Jihad Welfare Society Dhurnal	Local	District Chakwal	1 Education 2. Help of Needy Person	M. Yaqoob Salah 03335814858	03335814858
73	Tehsil Social Welfare Council	Local	District Chakwal	1. Women Development 2. Help of Needy	Fayaz Ahmed Ghara 03335921563	03335921563

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
	Talagang			Person		
74	Tameer-e-Milat Pera Fatehal	Local	District Chakwal	1.Education 2.Help Of Needy Person	Abdul Rehman Shad 03345678917	03345678917
75	Social Welfare Council Dalwal	Local	District Chakwal	Welfare for women (EWP Centre)	Aamir Malik 0332-5918929	Malik Anayat 0332-8001377

## ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Mr. Tanveer ur Rehman	0543-660102		0301-5916918
2	Commissioner		051-9292506 051-9292507		
3	RPO	Wisal Fakhar Sultan	051-9270631		
4	DC	Mr. Ghulam Saghir Shahid	0543-660101 0543-660001	0543-660101 0543-660001	0304-0920073
5	DPO	Mr. Adil Maimon	0543-660066	0543-660028	0333-5915333
6	ADC (Revenue)	Mr. Tanveer ur Rehman	0543-660102		0301-5916918
7	DEO Rescue 1122	Dr. Ateeq Ahmed Khan	0543-541400		0336-0001122
8	DO Civil Defence	Talib Hussain	0543-660113		0333-5116527
9	AC - Chakwal	Mohsin Iqbal	0543-553220		0333-9328084
10	AC – Choa Saidan Shah	Jannat Hussain Naikokara	0543-580224		0321-4930389
11	AC – Tallagang	Muhammad Fahim	0543-410938		0333-9296143
12	AC – Kallar Kahar	Mujahid Awan	0543-588539		0323-5222978
13	AC –Lawa	Malik Rashid Naimat	0543-483483		0333-4613873
14	Tehsildar – Chakwal	Raja Aftab Khalid	0543-553220		0300-5601560
15	Tehsildar – Tallagang	Rafaqat Ali Khan	0543-410938		0301-5313074
16	Tehsildar – Choa Saidan Shah	Allah Bakhsh Jaspal	0543-580224		0346-5770868
17	Tehsildar – Kallar Kahar	Shaikh Jameel	0543-588539		0300-5172327
18	Tehsildar – Lawa	Malik Ghulam Jilani	0543-483483		0305-5952202
19	Tehsildar -				
20	MC – Chakwal	Tariq Mehmood Paroya	0543 541127	--	0300-9603760
21	MC – Tallagang	Saddique Khan	0543-413580		0316-9202035
22	MC – Kallar Kahar	Shehzad Akhtar Tarrar	0543-588539		0346-8188858
23	MC – Choa Saidan Shah	Shehzad Akhtar Tarrar	0543-579146		0346-8188858
24	MC – Lawa		0543-413580		
25					
26	CEO Education	Abdul Waheed	0543-660120		0300-6334091
27	EDO Irrigation XEN Small Dams	Zafar Hussain	0543-660123		0333-4163083
28	Chief Engr. Irrigation				

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
29	Deputy Director Social Welfare	Tanveer Safdar			0333-0543543
30	Deputy Director Community Development		0543-660121		
31	Deputy Director Agriculcutre	Muhammad Aslam	0543-551556		0335-9933220
32	CEO Health	Dr.Amjad Ali Shah	0543-660163	0543-660062	0335-1709996
33	Additional Director Livestock	Dr. Muhammad Sarfraz Ahmad Chatha	0543-550865		0301-4123682
34	MS DHQ Hospital	Asad Aslam	0543-602005		0300-9606107

## ANNEX VIII: LIST OF VOLUNTEERS

#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Ahmed Fiyaz Qazi		Chakwal			
2	Syed Muhammad Shakeel		Chakwal			
3	Sk. Muhammad Adeel		Chakwal			
4	Rizwan Bashir		Chakwal			
5	Ahmad Saraj Qazi		Chakwal			
6	Qayyum Anwar		Chakwal			
7	Syed Fiyaz Abbas Shah		Chakwal			
8	Raja Zulfiqar Ali		Chakwal			
9	Mehmood Hussain		Chakwal			
10	Azhar Mehmood		Chakwal			
11	Mudassar Hussain		Chakwal			
12	Fazal ur Rahim		Chakwal			
13	Mauadaq Farooq		Chakwal			
14	Muhammad Kashif		Chakwal			
15	Ahmad Latif		Chakwal			
16	Muhammad Rizwan Arshad		Chakwal			
17	Bilal Ahmed Gondal		Chakwal			
18	Asif Sarfraz		Chakwal			
19	Farrukh Sohail		Chakwal			
20	Muhammad Abdul Rahim		Chakwal			
21	Ghulam Mustafa		Chakwal			
22	Khushi Muhammad		Chakwal			
23	Muhammad Jameel Akhtar		Chakwal			
24	Muhammad Aslam		Chakwal			
25	Ghulam		Chakwal			

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
	Muhammad					
26	Nazar Muhammad		Chakwal			
27	Mudassar Saleem		Chakwal			
28	Muhammad Umair		Chakwal			
29	Hafiz Muhammad Adeel		Chakwal			
30	Muhammad Ishaq		Chakwal			

## ANNEX IX: POLITICAL CONSTITUENCIES

National Constituencies				Provincial Constituencies			
Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number	Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number
NA-60	<b>Maj. R Tahir Iqbal</b>		03325240106	PP20	Ch. Haider Sultan		0333-8915555
NA 61	<b>Sardar Mumtaz Tamman</b>		03335000109	PP21	Malik Tanveer Aslam Saithi		03464005005
Special Seat	<b>Begum Iffat Liaqat</b>		03348728231	PP22	Sardar Zulfiqar Dullah		03334338171
				PP23	Shehryar Malik		
				Spc. Seat	Mehwish Sultana		03219555603

## ANNEX X: LOCAL GOVERNMENT

### District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	District Chairman	Chakwal	Tariq Aslam Dhulli		0300-5319683
2	District Vice Chairman	Chakwal	Khurshid Baig		0344-5787185
3	Tehsil Chairman	Chakwal	Ch.Sajjad Haider Khan		0300-5474300
4	Tehsil Vice Chairman	Chakwal	Ch.Qamar		0300-5474029
5	Tehsil Chairman	Kallar Kahar	Malik Ashraf		0333-5902622
6	Tehsil Vice Chairman	Kallar Kahar	Rahmat ul Ilah		0332-5662334
7	Tehsil Chairman	Talagang	Naeem Tariq		0302-5699786
8	Tehsil Vice Chairman	Talagang	Malik Zahid Awan		0300-5786696
9	Tehsil Chairman	Choa Saiden Shah	Haji Malik Mukhtar		0346-5783244
10	Tehsil Vice Chairman	Choa Saiden Shah	Nazim ud Din		0346-5106679
11	Tehsil Chairman	Lawa	Qadeer Iltaf		0300-8057906
12	Tehsil Vice Chairman	Lawa	Asif Nawaz		0302-7364100
1	District Chairman	Chakwal	Tariq Aslam Dhulli		0300-5319683
2	District Vice Chairman	Chakwal	Khurshid Baig		0344-5787185

### UC Level

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
1	CHAKWAL	Thanil Kamal	Ch.Tasduaq Hussain	0336-5688452	Haji Ameer	CHAKWAL
2	CHAKWAL	Mangwal	Haji Gulistan Khan	<b>0334-4444905</b>	Khizar Hayat	CHAKWAL
3	CHAKWAL	Saral	Ch. Nisar Abbas	<b>0300-5224515</b>	Dr. Muhammad Adnan	CHAKWAL
4	CHAKWAL	Dhudial	Ch. Khurshid Baig	<b>0334-5787185</b>	Mirza Ashraf	CHAKWAL
5	CHAKWAL	Padshahan	Sarfraz Ahmed	<b>0300-5786859</b>	Muhammad Arif	CHAKWAL
6	CHAKWAL	Jand Awan	Malik Naeem Asghar	<b>0300-5557181</b>	Ghulam Shabir	CHAKWAL
7	CHAKWAL	Mogla	Tariq Mahmood Afzal	<b>0300-5392874</b>	Abdur Rasheed	CHAKWAL
8	CHAKWAL	Mulhal Mughlan	Raja Arshad Mahmood	<b>0300-9776396</b>	Nisar Ahmed	CHAKWAL
9	CHAKWAL	Jand Khan Zada	Sufi Mushtaq Hussain	<b>0300-5479366</b>	Azhar Mahmood	CHAKWAL
10	CHAKWAL	Dhumman	Malik Zafar Iqbal	<b>0300-5470807</b>	Muhammad Hussian	CHAKWAL
11	CHAKWAL	Choa Gang Ali Shah	Muhammad Ishfaq	0312-5919550	Haji Shabir Hussian	CHAKWAL
12	CHAKWAL	Khotian	Ch. Saeed Ijaz	<b>0300-5473778</b>	Syed Najumul Islam	CHAKWAL

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
13	CHAKWAL	Jaswal	Ch. Shafqat Abbas	0345-8665175	Muhammad Fiaz	CHAKWAL
14	CHAKWAL	Karyala	Irfan Haider	<b>0333-5908014</b>	Muhammad Duraz Khan	CHAKWAL
15	CHAKWAL	Khai	Muhammad Mumtaz	<b>0312-5268630</b>	Iftikhar Ahmed	CHAKWAL
16	CHAKWAL	Dab	Raja Maqbool Hussain	<b>0333-5004712</b>	Anwar Ul Haq	CHAKWAL
17	CHAKWAL	Chak Malook	Ch. Arshad Hussain		Muhamad Razaq	CHAKWAL
18	CHAKWAL	Bheen	Ghanzafar Ali	<b>0331-5475556</b>	Muhammad Razaq	CHAKWAL
19	CHAKWAL	Chak Umra	Zafar Islam	<b>0300-5787155</b>	Thair Haider	CHAKWAL
20	CHAKWAL	Har Char Dhab	Muhamad Zameer Khan	<b>0303-5074151</b>	Shafiq Ahmed	CHAKWAL
21	CHAKWAL	Jabair Pur	Raja Siqandar		Jamil Haider	CHAKWAL
22	CHAKWAL	Odherwal	Sajid Hussian	<b>0333-5906463</b>	Ghulam Mustafa	CHAKWAL
23	CHAKWAL	Mureed	Qazi Azhar Hussian	<b>0334-8702430</b>	Muhammad Ayuob	CHAKWAL
24	CHAKWAL	Balokassar	Ch. Muhammad Khaliq	<b>0300-5473233</b>	Sajid Mahmood	CHAKWAL
25	CHAKWAL	Mangan	Ikram Abbas	<b>0313-5551414</b>	Muhammad Bashir	CHAKWAL
26	CHAKWAL	Balkassar	Haji Shauqat Mahmood	<b>0313-5145128</b>	Malik Muhammad Nazir	CHAKWAL
27	CHAKWAL	Bikhari Kalan	Mazhar Hussain	<b>0300-5326279</b>	Muhammad Nazir	CHAKWAL
28	CHAKWAL	Karsal	Syed Asad Nisar Shah	<b>0345-8541042</b>	Ch. Fazal Hussain	CHAKWAL
29	CHAKWAL	Kot Chudrian	Muhammad Javed Kahoot	<b>0346-5373841</b>	Khizar Hayat	CHAKWAL
30	CHAKWAL	Bigal	Ch. Israr Hussain	<b>0323-5440493</b>	Raja Ashiq Hussain	CHAKWAL
31	CHAKWAL	Warwal	Amir Abbas	<b>0333-5915912</b>	Tajmal Hussain	CHAKWAL
32	CHAKWAL	Dullah	Sardar Muhmmad Arif	<b>3015775523</b>	Waqar Hussain	CHAKWAL
33	CHOA SAIDEN SHAH	Lehr Sultan Pur	Raja Sajid Iqbal	<b>0346-5770401</b>	Masood Gujjar	CHOA SAIDEN SHAH
34	CHOA SAIDEN SHAH	Bashrat	Muzafar Hussain	<b>0344-5725786</b>	Muhammad Naveed Azam	CHOA SAIDEN SHAH
35	CHOA SAIDEN SHAH	Ara	Ch. Khaliq Dad	<b>0346-5783700</b>	Muhammad Anwar	CHOA SAIDEN SHAH
36	CHOA SAIDEN SHAH	Saloi	Muhammad Basher Gujjar	<b>0345-5784305</b>	Haji Nazeer	CHOA SAIDEN SHAH
37	CHOA SAIDEN SHAH	Dandot	Raja Majid Yousaf Late	<b>0333-5923563</b>	Munsaf Khan	CHOA SAIDEN SHAH
38	CHOA SAIDEN SHAH	Dalwal	Raja Muhammad Zulfaqr Aslam	<b>0321-8508526</b>	Muhammad Najeeb	CHOA SAIDEN SHAH
39	CHOA SAIDEN SHAH	Dulmial	Malik Khuda Bakhsh	<b>0300-5474592</b>	Malik Fiaz Ahmed	CHOA SAIDEN SHAH

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
40	KALLAR KAHAR	Khair Pur	Haider Abbas	0333-8017042	Ayuob Khan	KALLAR KAHAR
41	KALLAR KAHAR	Buchal Khurd	Tanveer Haider	0333-5137905	Malik Azmat Ali	KALLAR KAHAR
42	KALLAR KAHAR	Miani	Nasir Munir	0334-5673514	Thair Ayuob	KALLAR KAHAR
43	KALLAR KAHAR	Buchal Kalan	Akthar Hussian	0333-5137905	Ijaz Hussain	KALLAR KAHAR
44	KALLAR KAHAR	Noor Pur	Arshad Mahmood	0336-5800255	Muhamad Tufail	KALLAR KAHAR
45	KALLAR KAHAR	Bhur Pur Kalan	Mushtaq Ahmed	0333-4203259	Sabir Hussian	KALLAR KAHAR
46	KALLAR KAHAR	Munara	Malik Muhammad Aslam	0345-3607080	Shaqat Hayat	
47	TALAGANG	Dholar	Muhammad Akram	0304-5580662	Muhammad Arzam	
48	TALAGANG	Kot Sarang	Raja Dilbar Munir	0312-5005004	Khalid Pervaz	
49	TALAGANG	Niraghi	Qadeer Baz	0300-5131501	Malik zahor Ahmed	
50	TALAGANG	Jasial	Muhamad Tariq	0331-5177308	Aziz Ur Rahman	
51	TALAGANG	Tehi	Abdul Qadir Sabir	0301-5416348	Khalid Ashraf	
52	TALAGANG	Nakka Kahoot	Abdul Manan	0300-5479385	Muhamad Ayuob	
53	TALAGANG	Malikwal	Malik Riaz Awan	0332-1717786	Ameer Sultan	
54	TALAGANG	Pira Fatehal	Malik Ulfat Hussian	0300-5059346	Haq Nawaz	
55	TALAGANG	Jhtala	Malik Ghulam Muhammad	0302-5160920	Malik Muhammad Aslam	
56	TALAGANG	Bhilomar	Malik Muhamad Asghar	0346-5624455	Muhammad Ashraf	
57	TALAGANG	Thoha Mehram Khan-I	Malik Ansar Shah	0300-4945211	Muhammad Nawaz	
58	TALAGANG	Thoha Mehram Khan-II	Malik Sajad Ahmed	0300-5472233	Ghulam Ali	
59	TALAGANG	Saghar	Malik Kabeer Ahmed Khan	0335-3321333	Shauqat Zaman	
60	TALAGANG	Bidhar	Muhmmad Tariq	0300-5319683	Malik Ahmed Noor	
61	TALAGANG	Dharmond	Malik Khizar Hayat	0307-5670611	Malik Abdul Hadee	
62	TALAGANG	Tamman	Malik Azmat Hayat	0300-9167816	Allah Yaar Khan	
63	TALAGANG	Multan Khurd	Yasir Aziz	0313-5781220	Waheed Zafar	
64	TALAGANG	Jabbi Shah Dilawar	Zamud Khan	0305-5307281	Noor Ahmed	
65	TALAGANG	Bhudial	Hussain Ahmed	0300-5188406	Muhammad Nazaqat	
66	TALAGANG	Lati	Malik Anyat Ullah	0302-5600443	Muhammad Noor	
67	TALAGANG	Dhurnal	Malik Yaran Khan	0300-5315265	Muhammad aslam	

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
68	TALAGANG	Lawa	Nazeer Alam	0301-5613421	Javed Iqbal	
69	TALAGANG	Kot Qazi	Syed Mahmood Ahmed Shah	0315-6716002	Attah Ullah	
70	TALAGANG	Pichnand	Malik Bashir Ahmed	0302-6656286	Haji Ghulam Ali	
71	TALAGANG	Kot Gullah	Malik Asad Mahmood	0300-5786409	Sher Afzal	

# ANNEX XI: DATA COLLECTION PERFORMAS

## P1: House Damage Assessment

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Name	Father Name	CNIC	Address	Revenue Estate	Union Council	Tehsil	Partially/Completely	Katcha/Pakka	%age of Damage	Contact No.	GPS Coordinates	Picture Taken (Y/N)
----	------	-------------	------	---------	----------------	---------------	--------	----------------------	--------------	----------------	-------------	-----------------	---------------------

## P2: Deceased Person Reporting Performa

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Name of deceased	Father's name	Address	Domicile	Gender	Age	CNIC	Cause of death	Date of death	Place of death	Marital status	Next of kins (Name and Contact and CNIC etc.)	Verifying Officer (Name, Designation and Contact)	Compensation Paid or not
----	------------------	---------------	---------	----------	--------	-----	------	----------------	---------------	----------------	----------------	---	---	--------------------------

## P3: Injurd Person Reposrting Performa

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Name of injured	Father's name	Address	Domicile	Gender	Age	CNIC	Cause of injury	Date of injury	Injury Type (Permanent or Temporary)	Compensation Paid or not
----	-----------------	---------------	---------	----------	--------	-----	------	-----------------	----------------	--------------------------------------	--------------------------

**P4: Cattle Head Perished**

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Name of Farmer	Father Name	CNIC	Mauza	Tehsil	Type of Animals	Number of Animals (Cow, sheep etc.)	Vaccinated/Unvaccinated	Witness 1 name and contact No.	Witness 2 Name and Contact No.
----	----------------	-------------	------	-------	--------	-----------------	-------------------------------------	-------------------------	--------------------------------	--------------------------------

**P5: Crop Damages**

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Tehsil	Qanoongoi	Union Council	Mauza	Farmer Name	Land owner/Tenant	CNIC of farmer	Contact number	Type of Crops	Total land affected (acres)	% of mauza affected
----	--------	-----------	---------------	-------	-------------	-------------------	----------------	----------------	---------------	-----------------------------	---------------------

**P6: Relief Distribution Tracking Performa**

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Location/ Destination	Arrival Date and time	Items	Quantity	Items short (if any)	Items sent by	Driver name	Received by	Bilty no
----	-----------------------	-----------------------	-------	----------	----------------------	---------------	-------------	-------------	----------

**P7: Private Machinery (Boats, Bulldozers, cranes etc.)**

In case of mega disaster that overwhelms the resources of the Government in certain area, the equipment of private owners are engaged to continue with evacuation, rescue or relief services. The following template is filled to maintain a record of boat owners that might be engaged at the time of a disaster.

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Name of boat owner	Father name	Contact Number	Age	CNIC	Location of boat/Machinery	Type of Machinery (Boat, Bulldozers, Cranes etc.)	Engine type	Boat capacity	Equipment Condition	Number of Machinery
----	--------------------	-------------	----------------	-----	------	----------------------------	---	-------------	---------------	---------------------	---------------------

**P8: Relief camp registration Performa**

New entrants in the relief camps should be documented on a weekly basis by utilizing the following template:

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Nationality	Domicile	Male	Female	Age	Children Under 12	Infants under 3	Sick	Injured	Pregnant
----	-------------	----------	------	--------	-----	-------------------	-----------------	------	---------	----------

**P9:NGOs registration performa**

All the Non-Governmental Organizations operating in the disaster affected areas should register themselves at PDMA’s website. The following template has been developed for NGOs assisting the Government in disaster response.

District: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Name of NGO	Local /INGO	Relief activity	Relief camp if any	Focal person in the district	Registered with PDMA	Foreigners to be visiting or not.
----	-------------	-------------	-----------------	--------------------	------------------------------	----------------------	-----------------------------------

**P10: Control Room**

PDMA requires all districts to setup a control room at the incidence of a disaster. This control room would plan and execute a well-knit Governmental disaster response by bringing together all representatives of the various Governmental departments. This control room would be operational around the clock and PDMA must be informed about its operation and in-charge by filling the following template:

District: \_\_\_\_\_

Focal Person: \_\_\_\_\_

Date: \_\_\_\_\_

S#	Location of control room	Shift I Incharge Name and Contact	Shift II Incharge Name and Contact	Shift III Incharge Name and Contact	Phone Numbers	Fax Numbers	E- Mail Address
----	--------------------------	-----------------------------------	------------------------------------	-------------------------------------	---------------	-------------	-----------------

## ANNEX XII: CAMP MANAGEMENT SOPS

- Camps would be established in areas accessible by metalled roads so that provision of essential facilities is not difficult
- Basic facilities such as food, clean drinking water, health, hygiene and sanitation should be available at these shelters.
- Proper registration mechanism should be in place to differentiate between those actually affected and cunning opportunists
- Proper security system should be in place in coordination with the local police as the presence of police always acts as deterrence for criminals who may be attracted to such places.
- Emergency medical care should be available as well as a proper firefighting system as fire out breaks are common in such tents
- Proper camp management should be announced and notified and there should be a complaint cell as well
- A proper distribution mechanism should be in place to ensure that the needy get what they deserve.
- Scattered camps should be catered for and encouraged to join the main camp.
- At times shallow hand pumps are not safe for drinking as the water underground has been affected. In such cases clean medicated water should be provided through water bowsers.
- Vector control is an essential part of the camp management and steps should be taken to remove rats, snakes and mosquitoes etc.
- Un-accompanied and missing children shall be placed separately with proper care and fulfilment of their physical and psycho-social needs.
- Needs of women as per local and cultural environment shall be considered for establishing separate relief camps for ladies with provision of proper security and light arrangements.

Land	3.0-4.5 square meter per person
<b>Shelter</b>	3.5 square meter per person
<b>Water</b>	15-20 liters per person per day
<b>Food</b>	2100 kcal per person per day
<b>Toilet</b>	One per family of 6-10 persons
<b>Health Centre</b>	One per 20,000 persons
<b>Child Friendly Spaces</b>	2-4 year olds- 15 children:2 facilitators
	5-9 year olds-20 children : 2 facilitators
	10-18 year olds- 30 children :2 facilitators
<b>Hospital</b>	One for as many as 200,000 persons

## ANNEX XIII: FLOOD BUNDS

### INFORMATION REGARDING FLOOD BUND CATEGORY A

SR:#	NAME OF DIVISION	NAME OF EMBANKMENT / BUND	LENGTH (ft)
<b>SARGODHA ZONE</b>			
1	Rasul Head works Division	Right Guide Bund	2,121
2	-do-	Left Guide Bund	3,360
3	-do-	Right Guide Spur	2,762
4	-do-	Left Marginal Bund	17,170
<b>Total in feet.</b>			<b>25,413</b>
<b>Total in Miles.</b>			<b>4.81</b>
<b>PMO BARRAGES</b>			
1	Kalabagh H/Works Division	Jinnah Barrage	25,080
<b>Total in feet.</b>			<b>25,080</b>
<b>Total in Miles.</b>			<b>4.75</b>
<b>FAISALABAD DIVISION</b>			
1	Khanki Division	Left Marginal Bund	21,000
2	-do-	Right Marginal Bund	29,000
3	Jhang Division	Jhang Flood Protection Bund	43,875
4	Qadirabad Barrage Division	Left Marginal Bund	20,000
5	-do-	Right Marginal Bund	20,000
<b>Total in feet.</b>			<b>133,875</b>
<b>Total in Miles.</b>			<b>25.36</b>
<b>BAHAWALPUR ZONE</b>			
1	Punjad Head works Division	Right Marginal Bund	15,000
2	-do-	Left Marginal Bund	15,000
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	10,000
<b>Total in feet.</b>			<b>55,000</b>
<b>Total in Miles.</b>			<b>10.42</b>
<b>MULTAN ZONE.</b>			
1	Trimmu Division	Right Marginal Bund	20,000
2	-do-	Left Marginal Bund	20,000
3	Sulemanki Division	Left Marginal Bund	10,000
4	-do-	Right Marginal Bund	10,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	10,000
6	-do-	Akbar Flood Bund	10,000
<b>Total in feet.</b>			<b>80,000</b>
<b>Total in Miles.</b>			<b>15.15</b>
<b>D.G.KHAN ZONE</b>			
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khargarh Flood Bund	5,000
7	-do-	Khanwah Flood Bund	5,000
8	Jampur Construction Division	Jampur Flood Bund	5,000
9	-do-	Rojhan Flood Bund	20,000
<b>Total in feet.</b>			<b>1,35,000</b>
<b>Total in miles</b>			<b>25.57</b>

<b>LBDC(IP)</b>			
1	Balloki Head works Division	Left Marginal Bund	15,000
2	Do	Right Marginal Bund	15,000
<b>Total in Feet</b>			<b>30,000</b>
<b>Total in miles</b>			<b>6</b>
<b>LAHORE ZONE</b>			
1	FLOOD Bund Division Narowal	Jassar Highway Bund	10,000
2	Do	Rayya flood Bund	5,000
3	Pasrur Link Division Sialkot	City Flood Protection Bund along Aik Nullah	7,340
4	Do	Hajoipur Flood Protection Bund along Aik Nullah	86,00
5	Do	Left Flood Protection Bund over deg Nullah from defence embankment to Zafarwala Kingra road	10,000
6	Marala Division UCC	Left Marginal Bund	50,000
7	Do	Right Marginal Bund	10,000
8	Lahore Drainage Div.	Shahdara Flood Protection Bund	15,000
<b>Total in Feet</b>			<b>115,940</b>
<b>Total in miles</b>			<b>22</b>
<b>Grand total in miles</b>			<b>114</b>

**INFORMATION REGARDING FLOOD BUND CATEGORY B**

S#	Name of Division	Name of Embankment / Bund	Length (ft.)
<b>SARGODHA ZONE</b>			
1	Rasul Headworks Division	Important / Vulnerable Reaches	10,000
2	Bhakkar Division	-do-	10,000
3	Layyah Division	-do-	10,000
4	Jhelum Division	-do-	5,000
<b>Total in feet.</b>			<b>35,000</b>
<b>Total in miles</b>			<b>6.63</b>
<b>FAISALABAD ZONE</b>			
1	Khani Division	-do-	20,000
2	Jhang Division	-do-	50,000
3	Qadirabad Barrage Division	-do-	60,000
4	Burala Division	-do-	35,000
<b>Total in feet.</b>			<b>165,000</b>
<b>Total in miles</b>			<b>31.25</b>
<b>BAHAWALPUR ZONE</b>			
1	Punjad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
<b>Total in feet.</b>			<b>290,000</b>
<b>Total in miles</b>			<b>54.92</b>
<b>MULTAN ZONE</b>			

1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	<b>Total in feet.</b>		<b>190,000</b>
	<b>Total in miles</b>		<b>35.98</b>
<b>D.G.KHAN ZONE</b>			
1	Taunsa Barrage	-do-	80,000
2	Kot Adu Canal Division	-do-	90,000
3	Muzaffargarh Canal Division	-do-	180,000
4	River Diversion Division	-do-	80,000
5	Jampur Construction Division	-do-	140,000
6	D.G.Khan Construction Division	-do-	60,000
	<b>Total in feet.</b>		<b>630,000</b>
	<b>Total in miles</b>		<b>119.32</b>
<b>LBDC (IP)</b>			
1	Balloki Headworks Division	-do-	40,000
2	Okara Division	-do-	40,000
3	Sahiwal Division	-do-	20,000
	<b>Total in feet.</b>		<b>100,000</b>
	<b>Total in miles</b>		<b>18.94</b>
<b>LAHORE ZONE</b>			
1	Flood Bund Division Narowal	-do-	40,000
2	Pasrur Link Division Sialkot	-do-	10,000
3	Chakbandi Division	-do-	20,000
4	Marala Division UCC	-do-	50,000
5	Lahore Drainage Division	-do-	80,000
6	Kasur Division	-do-	80,000
7	Gujranwala UCC	-do-	100,000
8	Rachna Drainage	-do-	42,000
	<b>Total in feet.</b>		<b>422,000</b>
	<b>Total in miles</b>		<b>79.92</b>
<b>PMO BARRAGES</b>			
1	Jinnah Barrage	-do-	20,000
	<b>Total in feet.</b>		<b>20,000</b>
	<b>Total in miles</b>		<b>3.79</b>
	<b>Grand Total (in miles)</b>		<b>350.76</b>

## ANNEX XIV: RIVER DISCHARGE RATES

River	Gauge Site	Designed Capacity (lac Cs)	Flood Limits in Lac Cs.				Exp. High
			Low	Med:	High	Very High	
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	10	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
CHENAB	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
	Marala	11	1	1.5	2	4	6
	Khanki	8	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	6.45	1.5	2	3	4.5	6
RAVI	Punjnad	7	1.5	2	3	4.5	6
	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
SUTLEJ	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
	Islam	3	0.5	0.8	1.2	1.75	2.25
	Mailsi Syphon	4	0.75	1.1	1.5	2.25	3

## ANNEX XV: LIST OF BASIC TERMS

### **Acceptable risk**

The level of loss a society or community considers it can live with and for which it does not need to invest in mitigation

### **Biological hazard**

Biological vectors, micro-organisms, toxins and bioactive substances, which may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation.

### **Capacity**

A combination of all the strengths and resources available within a community, society or organization that can reduce the level of risk, or the effects of a disaster.

Capacity may include physical, institutional, social or economic means as well as skilled personnel or collective attributes such as leadership and management. Capacity may also be described as capability.

### **Capacity building**

Efforts aimed to develop human skills or societal infrastructure within a community or organization needed to reduce the level of risk. In extended understanding, capacity building also includes development of institutional, financial, political and other resources, at different levels of the society.

### **Climate change**

The climate of a place or region is changed if over an extended period (typically decades or longer) there is a statistically significant change in measurements of either the mean temperature or variability of the climate for that region.

### **Coping capacity**

The means by which people or organizations use available resources and abilities to face a disaster. In general, this involves managing resources, both in normal times as well as during crises or adverse conditions.

### **Disaster**

A serious disruption of the functioning of a community or society causing widespread human, material, economic or environmental losses which exceed the ability of the affected community or society to cope using its own resources. It results from the combination of hazards, conditions of vulnerability and insufficient capacity to reduce the potential negative consequences of risk.

### **Disaster risk management (DRM)**

The comprehensive approach to reduce the adverse impacts of a disaster. DRM encompasses all actions taken before, during, and after the disasters. It includes activities on mitigation, preparedness, emergency response, recovery, rehabilitation, and reconstruction.

### **Disaster risk reduction/disaster reduction**

The measures aimed to minimize vulnerabilities and disaster risks throughout a society, to avoid (prevention) or to limit (mitigation and preparedness) the adverse impacts of hazards, within the broad context of sustainable development.

### **Early warning**

The provision of timely and effective information, through identified institutions, to communities and individuals so that they could take action to reduce their risks and prepare for effective response.

### **Emergency management**

The management and deployment of resources for dealing with all aspects of emergencies, in particularly preparedness, response and rehabilitation

### **Forecast**

Estimate of the occurrence of a future event (UNESCO, WMO). This term is used with different meanings in different disciplines.

### **Geological hazard**

Natural earth processes that may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation. For example earthquakes, tsunamis, volcanic activity and emissions, landslides, rockslides, rock falls or avalanches, surface collapses, expansive soils and debris or mud flows.