

# DISTRICT DISASTER MANAGEMENT PLAN 2021

Division: Gujranwala

District: Mandi Bahauddin



Mock exercise recuse during Flood in 2020



Mock exercise recuse during Flood in 2020



Inspection of Flood Fighting Equipments



Inspection of Flood Fighting Equipments

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## Flood

Estimated number of people at risk of floods in 2021

10%  
of total population

Risk: Medium

## Earth Quake

Estimated number of people at risk of earthquake in 2021

5%  
of total population

Risk: Low

## Epidemic

Estimated number of people at risk of epidemic in 2021

20%  
of total population

Risk: Medium

## EXECUTIVE SUMMARY

District Mandi Bahauddin is spread over an area of 2673 Square KMs. It comprises of three Tehsils i.e. Mandi Bahauddin, Phalia & Malakwal. The city itself is 204 meters above sea level and is situated in upper Punjab.

The climate of this district is very hot in summer and cold in winters. During peak summer the day temperature goes up to 45 degrees, but the winter months are fairly pleasant and the minimum temperature may fall below 2°

Occasionally, the District Mandi Bahauddin has to face the onslaught of flood causing devastation and disturbance of normal activities of life. Two rivers hit district, River Jhelum & River Chenab.

District Disaster Management Plan has been prepared on the basis of past experiences and keeping in view the discharge of water from the rivers in the District.

## 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	1,593,292
2.	No. of Tehsils	3
3.	No. of UCs	80
4.	No. of Revenue Estates	434
5.	Population Density (people per km <sup>2</sup> )	600
6.	Family Size	6
7.	Pop Growth Rate	1.68
8.	PCI	
9.	District GDP/Annual Income	
10.	Poverty Rate	18
11.	Patient/Doctor Ratio	6,034
12.	AMR	
13.	IMR	75
14.	MMR	45
15.	Literacy Rate	65
16.	Global Acute Malnutrition (GAM) rate	5%
17.	Severe Acute Malnutrition (SAM) rate	0.06%
18.	Percentage of population having access to clean drinking water	100%
19.	Annual Crime	3,230

### Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
1,593,291	430,826	397,685	390,037	374,743	50,985

Source/Note: Population Officer, M.B DinPopulation Officer, M.B DinPopulation Officer, M.B DinPopulation Officer, M.B Din

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks & Morter)
252,120	22,691	229,429

Source/Note: Pakistan Bureau of Statistics 2017Pakistan Bureau of Statistics 2017Pakistan Bureau of Statistics 2017Pakistan Bureau of Statistics 2017

### Area (in acres)

Total Area of District in Km <sup>2</sup>	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
2,673	542,191	72,909	48,550

### Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
65%	76%	59%	83%	76%	77%	61%

Source/Note: District Education Authority, M.B Din District Education Authority, M.B Din District Education Authority, M.B Din District Education Authority, M.B Din

### Government Schools

		Schools	Enrollment
<b>Total/ Overall</b>		782	218,800
<b>Boys</b>	<b>Primary</b>	205	28,895
	<b>Middle</b>	51	16,553
	<b>High</b>	80	47,893
<b>Girls</b>	<b>Primary</b>	146	20,134
	<b>Middle</b>	76	20,058
	<b>High</b>	96	63,703
<b>Co-Education</b>	<b>Primary</b>	124	21,034
	<b>Middle</b>	0	0
	<b>High</b>	0	0
<b>Special Education</b>		4	530

### Private Schools

		Schools	Enrollment
<b>Total/ Overall</b>		461	78,183
<b>Boys</b>	<b>Primary</b>	0	0
	<b>Middle</b>	47	4,163
	<b>High</b>	52	12,013
<b>Girls</b>	<b>Primary</b>	2	102
	<b>Middle</b>	58	5,589
	<b>High</b>	69	16,199
<b>Co-Education</b>	<b>Primary</b>	30	2,975
	<b>Middle</b>	132	18,375
	<b>High</b>	71	18,767
<b>Special Education</b>		0	0

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

Particulars	College	Universities	Professional	Technical	Commerce	Total
<b>No of Institution</b>	38	2	Nil	2	2	40
<b>No of Students</b>	26,957	1,425	Nil	122	266	27,233

### Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
<b>No. of Facilities</b>	57	3	0	43	103
<b>Annual OPDs</b>	1,214,872	800,682	0	70,613	2,086,167
<b>No of beds</b>	258	200	0	268	726
<b>Doctors Available</b>	87	143	0	104	334
<b>Paramedical staff</b>	341	53	0	268	662
<b>Ambulances available</b>	0	0	0	0	0
<b>Mobile Medical Units</b>					1

**Livestock:** Small Animals (goats, sheep etc.): 108,035 Big Animals (cows, buffalos, camel etc.) 627,610

### Main source of livelihood of the community?

Agriculture	Livestock	Poultry	Fish Farming	Services (Public & Pvt)	Business	Expatriates	Industrial Labor	Skilled Labor	Unskilled Daily Labor	General Labor
60%	8%	2%	1%	1%	8%	0%	2%	8%	6%	4%

### 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	2020		0			0		
2	2014	112,420	6	103	1,261	0	309,446,000	
3	2013		0	55	8	7		Crops affected: 10,211 acers
4	2010		0	30				
5	2005		0					
6	1997		0					
7	1992							

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

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	Nil	N/A	N/A	N/A	N/A

#### General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Gujrat, Jhelum, Sargodha, Gujranwala, Hafizabad
Topographical Features	204 meters above sea level
Weather/Climate pattern	Max. 45C and Min 02C Temperature
Major Rivers	River Jhelum with Rasool Barrage & Chenab with Qadirabad Barrage  <b>Flood Levels of River Chenab</b> <ul style="list-style-type: none"> <li>• Below 2 Lac Cusec "Stay Alert"</li> <li>• 2 Lac to 4 Lac Cusec "High Flood"</li> <li>• 4 Lac to 6 Lac Cusec "Very High Flood"</li> <li>• Above 6 Lac Cusec "Super Flood"</li> </ul> <b>Flood Levels of River Jhelum</b> <ul style="list-style-type: none"> <li>• Below 1.5 Lac Cusec "Stay Alert"</li> <li>• 1.5 Lac to 2.25 Lac Cusec "High Flood"</li> <li>• 2.25 Lac to 3 Lac Cusec "Very High Flood"</li> <li>• Above 3 Lac Cusec "Super Flood"</li> </ul>
Major Nullahs / Streams	Nullah Downstream Qadirabad
Motorway/Highway	Nil
Railways	Vulnerable points of Railway Chalianwala, Mandi Bahauddin, Haria, Malakwal
Geological features	No fault line and mountainous areas.

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## Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
Nil	NA	NA	NA	NA	NA	NA

## 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
Left Marginal Bund	3.43	Kotehra / MBDin	Rasul / MBDin	(1) RD 0 to RD 14000	X: 32.681066 Y: 73.542739	Condition: Satisfactory
				(2) RD 15000 to RD 17000	X: 32.696096 Y: 73.551970	On Jhelum River
Flood Embankment along ULC	14.00	M.B Din	M.B Din	Nil	N/A	Condition: Satisfactory On Jhelum River
Right Closure Bund (RD: 2+500 - 3+000)	0.70	Rasul Barrage, M.B Din	Rasul Barrage, M.B Din	Nil	N/A	Condition: Satisfactory On Jhelum River
Right Marginal Bund	21.00	0+000 Tehsil Wazirabad, Dist. Gujranwala	106+300 Tehsil & Dist. Gujrat	RD. 27+000 to 31+000, Tehsil Phalia, Dist. M.B Din	X: :32.372726 Y: 73.746794	The reach of RMB from RD 6+000 to 84+000 falls in Tehsil Phalia of Dist. M.B Din Condition: Satisfactory On Chenab River
Chuknawali Flood Bund	12.39	Sarang, RQ-link, Tehsil Phalia, Dist. M.B Din	Kala Shadian, Tehsil Phalia, Dist. M.B Din	Nil	N/A	Condition: Satisfactory On Chenab River
Humber Flood Bund	16.00	Maina hazara, Tehsil Kot Moman, Dist. Sargodha	Dhuni kalan, Tehsil Phalia, Dist. M.B Din	Nil	N/A	Condition: Satisfactory On Chenab River
Farrukhpur Flood Bund	6.08	Farrukhpur, Tehsil Phalia, Dist. M.B Din	Qadirabad, Tehsil Phalia, Dist. M.B Din	Nil	N/A	Condition: Satisfactory On Chenab River

<b>Budhi Nullah Flood Bund</b>	3.50	Saida, Tehsil Phalia, Dist. M.B Din	Qadirabad, Tehsil Phalia, Dist. M.B Din	Nil	N/A	Condition: Satisfactory On Chenab River
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**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		
<b>Right Marginal Bund</b>	Qadirabad Barrage RD 7+000 to 9+000 RMB	X: 32.347148 Y: 73.688207	2,480	2,120	1,540	Tehsil Phalia, Dist. M.B Din	The breaching section will be operated in case of discharge is passing over 9.0 Lac Cs. And critical gauge are 712, and river in raising condition.

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
<b>Grid Station M.B Din</b>	132 KV	X: Y:	Grid Station Faqirian	132 KV	X: Y:
<b>Grid Station Malikwal</b>	132 KV	X: Y:	Grid Station Phalia	132 KV	X: Y:
<b>Grid Station Hellan</b>	132 KV	X: Y:	Hydel Power House Rasool	2.5 MVA	X: Y:

**Airport / Landing Strips**

Type	Area Name	GPS Coordinates
Nil	N/A	N/A

**Govt. storage facilities/warehouses in the district**

Facility Type	Capacity	Location with GPS Coordinates
Nil	N/A	N/A

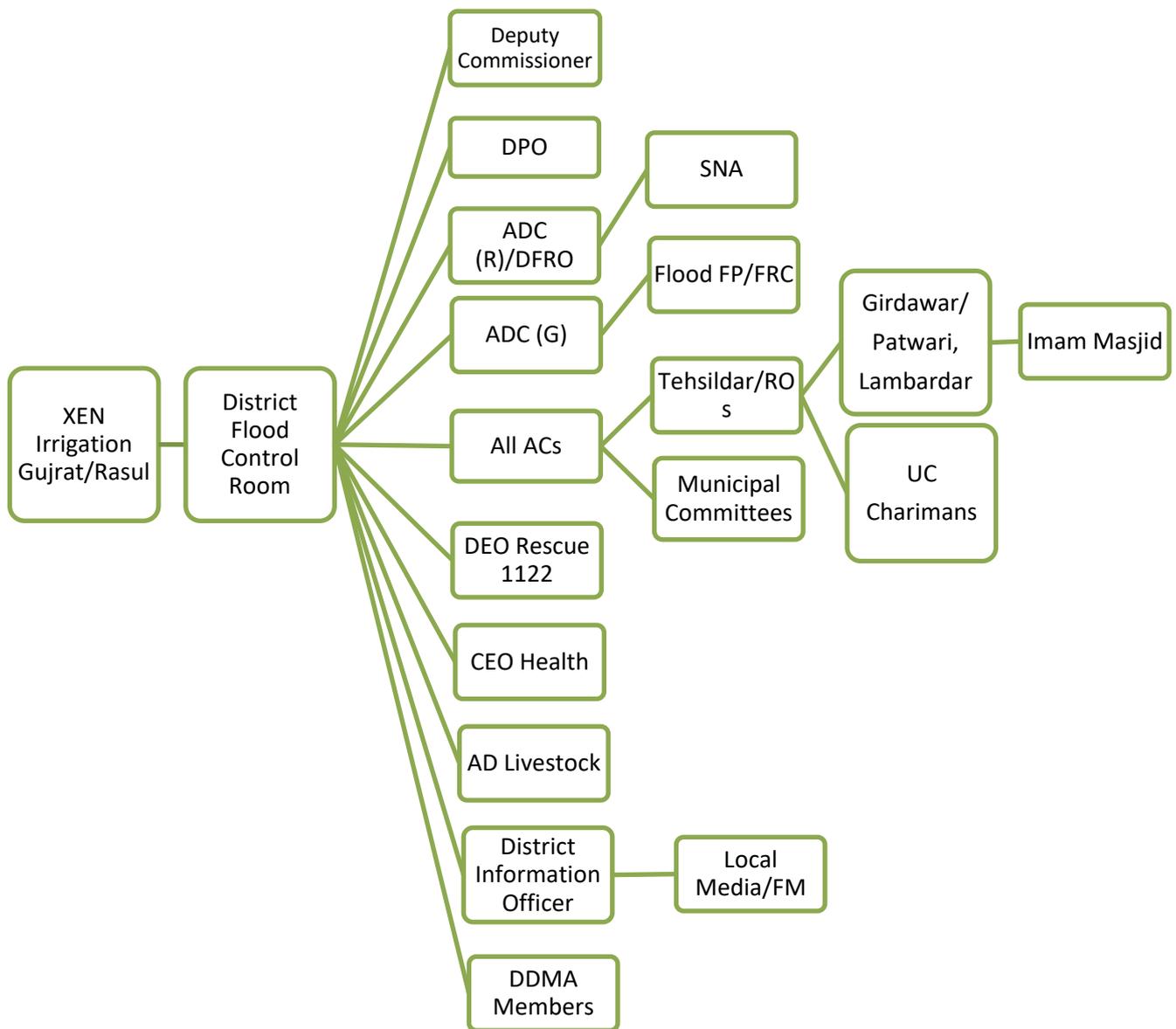
District baseline/reference map



Source: Rescue 1122, Mandi Bahauddin

# 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 programmes for different levels of officers, employees and voluntary rescue workers in the district;
- j) facilitate community training and awareness programmes 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 centres 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, EDOs, 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 be 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 flood prone 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
- ✓ Name and contact numbers of private boat owners and operators 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

#### Metropolitan / Municipal Corporations

##### Municipal / Town Committees

- Local Bodies play an important role of providing municipal services in the district including clean drinking water, sanitation facilities, maintenance of parks and removal of encroachment etc.
- Local Bodies will provide assistance to the District Administration for setting up and management of relief camps/ operations.
- Local Bodies are responsible for provision & restoration of water and sanitation facilities in their municipalities besides disposal of waste or rain water/sewerage.
- Local Bodies 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.
- Local Bodies sanitary workers can be employed for cleaning relief camps, or other such areas which has been affected by any disaster.

- Local Bodies employ de-watering sets to remove excess water. All Local Bodies are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The Local Bodies maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- Local Bodies 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 Local Bodies under the concerned Administrator i.e Commissioner / DC / AC will assist in the migration of the affected people.
- During the relief effort and subsequent rehabilitation effort the Local Bodies 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 NDM 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 defense 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, Local Bodies and the Revenue Department form the main disaster management team within any given 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 in charge of his her tehsil. All disaster related activities in a said tehsil will be coordinated through the concerned AC and the Local Bodies.
- 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 (Rev)
  - 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. Additional Deputy Commissioner (General)
  - viii. Additional Deputy Commissioner (F&P)

- ix. XEN Buildings
- x. XEN Highways
- xi. Chief Executive Officer (DHA)
- xii. Chief Executive Officer (DEA)
- xiii. SP Special Branch
- xiv. XEN Irrigation / Public Health
- xv. District officer Civil Defense
- xvi. Administrators of Tehsil Councils / Municipal Corporations
- xvii. All Chief Officers of Local Bodies in District
- xviii. District Emergency Officer, Rescue 1122 (Secretary)
- xix. Representative of Red Crescent
- xx. Such other District level Officers to be appointed by District Administration

- District Administrations 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 has to maintain updated information regarding the threat of disaster and statistics post disaster. The center will maintain a regular communication with the Flood Forecasting Division or the dam authorities up stream in case of a flood.
- The District Administration would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Administrations will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
- Executive District Officer (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) in all 36 districts of Punjab are managed by Secretaries who would coordinate with local transporters to arrange for arranging 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 in the strong currents 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.
- Apart from that 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)**

A Disaster Emergency Control Room working around the clock will be established at district level for effective coordination and mutual support among the different departments and agencies. Functions of control room are follow:

**RECEIPT OF WARNINGS:**

Warnings of natural disaster (e.g, floods, earthquakes etc) will be issued in the first instance by the bureau of meteorology and the officer in charge is responsible to ensure that the information is immediately forwarded to the chairperson of the district emergency board. In the event of a manmade disaster warning would be issued by the designated control authority (Police, Rescue 1122 etc) to the chairperson.

**WARNING DISTRIBUTION:**

Upon the implementation of this plan, all public warnings will be distributed through the Disaster Co-ordination centre upon recommendation of the relevant control authority and on the authorization of the Chairperson.

**PUBLIC INFORMATION:**

The distribution of the contact or telephone numbers to the public for disaster information will be the responsibility of and at the discretion of the Chairperson.

**COORDINATION AMONG DIFFERENT DEPARTMENTS AND AGENCIES:**

It will be responsible for the coordination among different departments and agencies. The required resources will be mobilized and provided at the operational site.

**REPORTING:**

Any request for assistance from outside the district are to be made by the Chairperson.

**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 affectees in camp (sick, aged and children) shall be communicated daily
- ✓ Availability of at least one emergency vehicle at center 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, and family planning. 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 centers 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**

The Pakistan army's resources are employed for immediate search, rescue and evacuation. The Army is called in the 'Aid of Civil Power' only when a disaster overwhelms the resources at the disposal of the Government of Punjab. Search, rescue and evacuation are the primary responsibilities of the 'Disaster Response Force' so if the resources of this force fall short, the Army is immediately called in. The Army's setup in Punjab is administratively divided into six Corps with a Corps Commander leading each Corps. The District Coordination Officer of the affected district would request the relevant Army Authorities for aid of Army upon the approval of the Home Department. The Standard Operating Procedure of requesting the support of the Army is to route the DC's request through Home Department, and the Ministry of Defense. The Ministry would inform the General Headquarters (GHQ) and officers at GHQ would request the relevant Corps Commander to activate the Garrison Officer Incharge and the Brigadier responsible for leading the on ground operations. PDMA has equipped the Army with 850 boats for rescue and evacuation. In addition to the on ground movement, the Army can also provide the necessary air support for reconnaissance, relief and rescue missions. PDMA pays for the maintenance expenditures of the 850 boats mentioned earlier. In the same manner, all of Army's expenditures on disaster response are debited to the requisitioning civil authority.

The Army plays a substantial role in the opening of breaching sections. The Irrigation department is responsible for the maintenance of manageable discharge rates in the major rivers of Punjab. If the water flow exceeds a set discharge rate, the breaching section is opened with the help of explosives and excessive water is diverted into a designated area. The Breaching Section Committee responsible for the opening of the section, contains a military representative, which is usually a representative of the respective formation Headquarters not below the rank of Lieutenant Colonel. In case a disaster disrupts the existing telecommunication channels in a certain area, the Army would spearhead or assist the installation of wireless stations. In case of high floods, the respective Corps Commander would setup a Flood Relief Committee, consisting of but not limited to Commander Corps Engineer, Commander Corps Signals, Chief of Staff, Colonel General Staff, Colonel Administration etc.

**Volunteer Network**

The office of Civil Defence assists in the evacuation of people and their household properties from the disaster affected areas. The office engages a large number of volunteers for search, rescue, evacuation and disbursement of relief goods. These volunteers generally known as "Razakars" are usually trained in swimming, basic rescue techniques, first aid etc. Razakars build their skills in simulation and mock exercises. The Civil Defence collaborates with Punjab Emergency Services (Rescue 1122) in sophisticated search, rescue and evacuation operations.

The District officer organizes mobile squads of Razakars and scouts in collaboration with local wardens and scout organizations to assist local administration/army, Rescue 1122 in evacuation and other disaster response activities. Razakars manage and utilize generators, search lights, and other lifesaving equipment. Razakars that know how to swim and dive are utilized for specialized water rescue. Razakars provide first aid to injured victims before transporting them to hospitals. These volunteers also assist the fire brigade in rescue, and Health department's representatives in the treatment of injured victims. The Civil Defence also assists the District Administration and Police in setting up information system for members of public, whose relatives, friends and family members are missing.

# RISK ANALYSIS

## 1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	3	3	9
Urban Flooding	2	1	2
Flash Floods	3	3	9
Hill Torrent	1	1	1
Glacial Lake Outburst Flood (GLOF)	1	1	1
Landslide	1	1	1
Tornado	1	1	1
Earthquake	3	1	43
Drought	1	1	1
Epidemic	1	1	1
Fire Incidents	3	2	6
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	3	3	9
Environmental Hazards (industrial accidents, severe pollution etc.)	1	1	1

Risk = Impact x Likelihood

Low : 1-7

Medium : 8-14

High : 15-25

## 2. Hazards

The year 2014 it was flooded heavily in rivers Jhelum and Chenab. More than 0.92 Million cusecs of water passed through River Chenab and 0.514 million cusecs at River Jehlum in year 2014. Consequently around 1,12,420 population was affected. 2,24,000 acres of agricultural land was affected. 1267 houses were damaged partially. Infrastructure, i.e. roads, buildings of schools, RHCs and BHUs were also on the hit.

1.	Villages Affected.	103
2.	Area Affected Around	224,000 Acres
3.	People affected.	112,420
5.	House damages.	1267
6.	Persons died.	6
7.	Cattle lost / perished.	49
8.	Relief Camps.	10

### Evacuation Plan

Evacuation is the organized withdrawal or removal (as of persons or things) from a place or area as proactive measures. The movement is temporary and when the crises are over, there will be an organized return to the original locations.

#### PHASES OF AN EVACUATION

1. Warning
2. Order to move
3. Movement
4. Shelter
5. Return

#### EARLY WARNING MECHANISM

District Flood relief officer (Deputy Commissioner) and the in-charge District Flood Control Room District will keep a constant liaison with control room of irrigation Department at headwork and Provincial Flood Warning Centre through Focal Person provided by Irrigation Department. The focal person provided by Irrigation Department will maintain the District Flood Control Centre round the clock. The flood warning will immediately be communicated by in-charge District Flood Control centre to Deputy Commissioner, District Police Officer, Additional Deputy Commissioner (Revenue), all Assistant Commissioners, Army & Police Control Rooms, Incharge Rescue 1122, Executive District Officer Health, all CO (MCs) & DO (Civil defence). The Assistant Commissioner & Deputy Superintendent Police concerned will further inform the Sector Officers (Revenue Officers) & SHO respectively. The Sector Officer & SHO will further convey warning to the population likely to be affected by the flood.

On receipt of High Flood warning exceeding 3 lac cusecs all school for girls and boys in affected area shall be closed down under the order of Sector Officers/ In charges.

In Mandi Bahauddin the flood warning for high flood will be communicated by means of siren, through the Loud Speakers, announcement in mosques by Sector Officers/ SHO concerned and the District Officer (Civil Defence), Bahauddin

**EVACUATION PLAN FOR THE AREA LIKELY TO BE AFFECTED BY FLOOD IN TEHSIL MANDI BHAUDDIN**

SR	NAME OF SECTOR	NAME OF VILLAGE LIKELY TO BE AFFECTED	NAME OF RELIEF CAMPS	DISTANCE OF VILLAGE FROM RELIEF CAMPS	MODE OF TRANSPORTATION FROM EVACUATION POINT
01	Rasul	Dhapai, Chak Fateh Shah, Kotera	GHS Rasul	2 to 3 km	Vans /Tractor Trolley/ Boat
02	Mong	Mong , Kotli Afghanan, Arazi Bi Ludon, Mir Khawni, Kot Jolian, Mohabat Pur, Khewa, Kharal Mohabat Pur, Khurd,	GHS Mong	2 to 3 km	Vans /Tractor Trolley/ Boat
03	Ahla	Ahla, Dato Chohr, Chak Dawaar Ka, Pindi Ahlani,	GHS Ahla	2 to 3 km	Vans /Tractor Trolley/ Boat

**EVACUATION PLAN FOR THE AREA LIKELY TO BE EFFECTED BY FLOOD IN TEHSIL MALAKWAL**

SR	NAME OF SECTOR	NAME OF VILLAGE LIKELY TO BE AFFECTED	NAME OF RELIEF CAMPS	DISTANCE OF VILLAGE FROM RELIEF CAMPS	MODE OF TRANSPORTATION FROM EVACUATION POINT
01	Malakwal	Chak Dadan, Naseer Pur, Malakwal (Mohalla Kotli)	GHS Malakwal	1 to 3 km	Vans /Tractor Trolley/ Boat
02	Haria	Kalowal/Kothera, Hariah, Kirtowal, Wara Chamian, Badshahpur, Katowal, Muradwal	GHS Haria	1 to 4 km	Vans /Tractor Trolley/ Boat
03	Bhagowal	Majhi, Kot Admana, Phapra, Noor Pur Piran, Bhagowal	GHS Haria	1 to 5 km	Vans /Tractor Trolley/ Boat

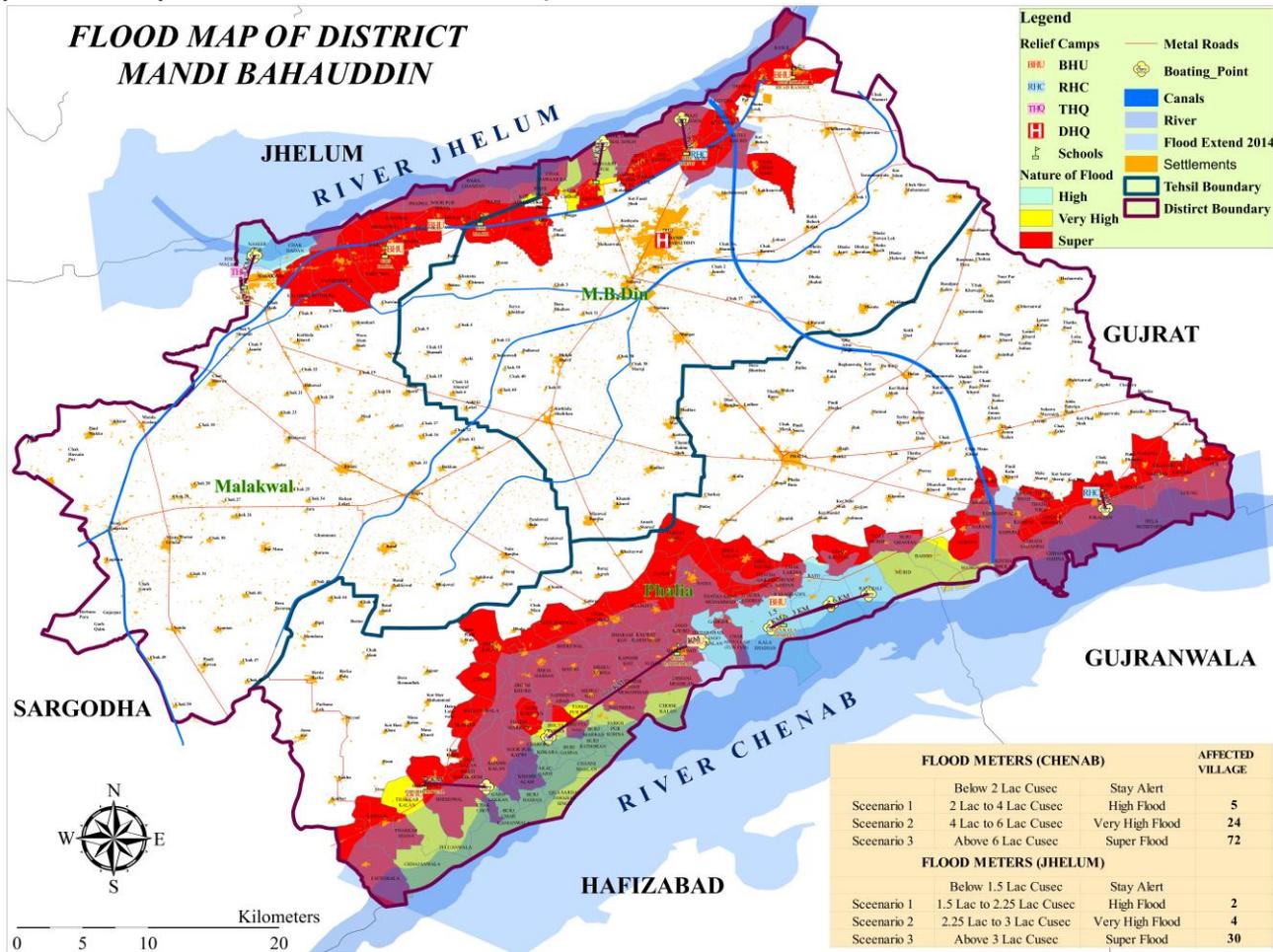
**EVACUATION PLAN FOR THE AREA LIKELY TO BE EFFECTED BY FLOOD IN TEHSIL PHALIA**

SR	NAME OF SECTOR	NAME OF VILLAGE LIKELY TO BE AFFECTED	NAME OF S	DISTANCE OF VILLAGE FROM RELIEF CAMPS	MODE OF TRANSPORTATION FROM EVACUATION POINT
01	Chak Shahbaz	Chak Shahbaz, Qadirabad, Thatha Golgoian, Thatha Khan Muhammad, Kapur Kot, Chook Kalan, Rakh Channi Mughlan, Gudgore, Channi Mughlan, Baho, Manga, Kotha Bola	GHS Chak Shahbaz	1 to 7 km	Vans /Tractor Trolley/ Boat
02	Kala Shadian	Saida, Kala Shadian, Jaggo Kalan, Jago Khurd, Thatha Hakimwala, Bhekho, Farukhpur Kohna, Noshera Bahattian, Alhan, Dharam Kot, Kore Karam Shah, Melu Kohna, Bahri, Ratto, Chak Kamal, Randiali	GHS Randiali	1 to 6 km	Vans /Tractor Trolley/ Boat
03	Jokalian	Jokalian, Channi Ghanayya, Channi Sahanpal, Loong, Bela Mushtarka, Sahnpal, Khosar, Khar K, Asadullah Pur, Murid, Burj Ghanian, Thahti Murid,	GHS Jokalian	1 to 5 km	Vans /Tractor Trolley/ Boat

**BOATING POINTS/ EVACUATION THROUGH BOATS**

Main Area	Boating Points	Boats	Catchment Area	Estimated Vulnerable Population	Distance from Boating Point to Villages
Jokalian	Jokalian	1	Jokalian Non Residential Dera Jaat of Loong, Khosar, Khar K, Asadullah Pur, Sanpal	90	01-05 KM
Randiali	Cannal Bund Randiali	1	Randiali & Surroundings Areas	800	02 KM
Bahri	Cannal Bund Bahri	1	Bahri & Surroundings Areas	950	1.5 KM
Kala Shadian	Cannal Bank Kala Shadian	1	Kala Shadian & Surroundings Areas	900	1.5 KM
Qadir Abad	Tariq Abad	2	Tariq Abad & Surroundings Areas	1600	07 KM
Kokary	Bhoa Hasan	2	Bhoa Hassan & Surroundings Areas	1400	05 KM
Basti Makhdoom	Basti Makhdoom	1	Basti Makhdoom & Surroundings Areas	400	03 KM
Malakwal (Mohallah Kotli)	Mohallah Kotli (Damane-Khizar Park)	2	Residential & Non Residential Dera Jaat & Villages/ Mouza Jaat Naseer Pur, Chak Daddan & Chak Nizam	200	01-02 KM
Mong	Mong	2	Residential & Non Residential Dera Jaat & Villages	1000	01-05 Km

District detail map with vulnerable points including (Rivers, Nullahs, Hill Torrents, Wheat Gowdowns, hazards, planned camps, health facilities, warehouses) etc.



Source: District Administration, M.B Din

### 3. Response & Operational Capacity

- All District relief and rehabilitation teams will show response.
- All CEOs, DDs will be standby with their teams.
- At Tehsil Level ACs, Chief Officers-MCs, Assistant Directors of all departments will join hands humanitarian crisis management.

## 4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	22	22	0	2 ( Fiberglass Boats 19ft) 2 (Rubber Boat)
OBM	21	21	0	02 (40Hp) 03 (60HP)
De-watering sets	17	17	0	2
Navigators	Nil	Nil	Nil	20
GIS devices	Nil	Nil	Nil	Nil
Life Jackets	338	338	0	100 adult 100 child
Life Ring	104	104	0	Nil
Life Lines	Nil	Nil	Nil	Nil
Scuba diving suit with complete accessories	03	03	Nil	04
First Aid Kits	30	28	0	Nil
Rescue Bag	0	0	Nil	30
Safety Harnesses	12	12	Nil	10
Ambulances	17	17	Nil	04
Fire Brigade	7	7	Nil	Nil
Water Tanks / Bouzers	6	6	0	Nil
Extendable Ladders	07	07	Nil	Nil
Hydraulic Cutter	1	1	Nil	1
Sonar Rader	Nil	Nil	Nil	Nil
Jumping Sheet	1	1	0	Nil
Dumpers	Nil	Nil	Nil	Nil
Excavators	Nil	Nil	Nil	01
Cranes	Nil	Nil	Nil	Nil
Bulldozer	Nil	Nil	Nil	Nil
Boat Carrier/Trolleys	5	5	Nil	5
Pickups/Jeeps/4x4 vehicles/Mini Trucks	95	95	0	0
Searchlight	33	33	0	50
Tent	300	300	0	250
Mosquito Net	200	200	0	1,000
Plastic Mat	400	400	0	500
Blanket	Nil	Nil	Nil	100
Any other main relief/rescue equipment	Nil	Nil	Nil	Nil
Generator Sets	1	1	0	03 (5kW)
Gas-Cutters	1	1	Nil	2
Sonar Radars	Nil	Nil	Nil	Nil
Scuba Diving Set	03	03	Nil	01
Navigator/GPS Tracker	Nil	Nil	Nil	Nil
Hydraulic Cutter	1	1	Nil	1
Floating Rope	Nil	Nil	Nil	20
Kalet	Nil	Nil	Nil	100



## 5. Gaps and Constraints

- Lack of transportation system from the areas likely to be affected.
- Non availability of 4x4 vehicle to move the senior management to the affected areas during flood.
- Non availability of trucks which could carry boats and rescue to the effected areas.
- Shortage of man power with rescue 1122 to under take flood rescue operation while containing their other regular rescue services/operation. Non availability of trucks which could carry boats and rescue to the effected areas.

## MITIGATION STRATEGY

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

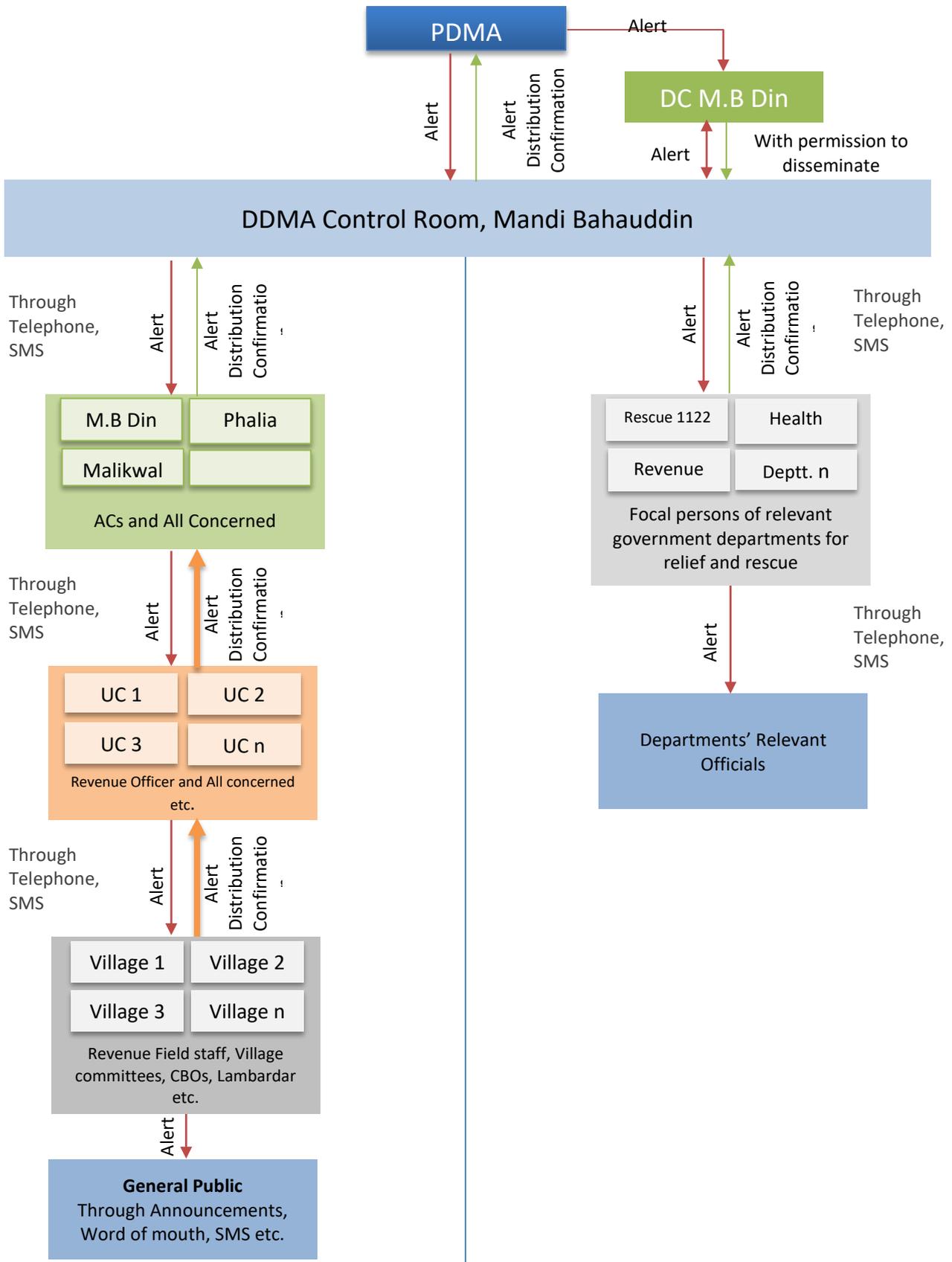
Hazards	Mitigate Actions	Responsible Department
Floods	<ul style="list-style-type: none"> <li>• Liaison with IRSA and WAPDA authorities through FMC</li> <li>• Repair of embankments/ bunds</li> <li>• Community awareness on CBDRM approach</li> <li>• School level awareness on safety mechanisms</li> </ul>	District government Irrigation Civil Defence
Urban Flooding	<ul style="list-style-type: none"> <li>• Cleaning of sewerage</li> <li>• Community awareness</li> </ul>	District government Civil Defence
Flash Floods	<ul style="list-style-type: none"> <li>• Construct surrounding bunds around vulnerable areas</li> <li>• Restrict people to construct their houses at vulnerable areas.</li> <li>• The de-silting of nallah, canals and rivers.</li> <li>• Diverting water of nallah and canals.</li> </ul>	Irrigation District government
Hill Torrent	<ul style="list-style-type: none"> <li>• Construction/ Repair of bunds</li> </ul>	Irrigation
Glacial Lake Outburst Flood (GLOF)	Nil	Nil
Landslide	<ul style="list-style-type: none"> <li>• Planting trees</li> <li>• Protection of forest &amp; developing regulations to prevent cutting of trees</li> </ul>	Forest department

Tornado	Nil	Nil
Earthquake	<ul style="list-style-type: none"> <li>Constructing earth quake resistance buildings</li> <li>Implementing building codes in commercial and owner-led construction</li> </ul>	District government M.C
Drought	Nil	Nil
Epidemic	<ul style="list-style-type: none"> <li>Vaccination to women, children and community members on Hepatitis, Malaria and Diarrhea and Typhoid</li> <li>Health Education to community, lady health workers, TBA and CHWs</li> <li>Collection of proper data on epidemics and developing preventive strategies against each</li> <li>Keep stock of required medicines in BHUs, MHUs and local hospitals</li> </ul>	Health
Fire Incidents	<ul style="list-style-type: none"> <li>Survey of vulnerable buildings</li> <li>Survey of vulnerable factories</li> <li>Implementation of building codes.</li> <li>Training of employed staff.</li> <li>Community awareness</li> <li>Handling of Proper disposable material</li> </ul>	Civil defence & Building department  Civil defence & Labour department  Rescue 1122  Environment
Other Major Accidents (Building	<ul style="list-style-type: none"> <li>Identification &amp; removal of black spots</li> <li>Community awareness</li> <li>Implementation of traffic rules</li> </ul>	Rescue 1122

Collapse, road traffic accidents, train accident, Stampede, plane crash)	<ul style="list-style-type: none"><li>• Permanent Resettlement of vulnerable buildings</li></ul>	District government  Traffic police
Environmental Hazards (industrial accidents, severe pollution etc.)	<ul style="list-style-type: none"><li>• Survey of vulnerable factories</li><li>• Implementation of building codes.</li><li>• Training of employed staff.</li><li>• Community awareness</li><li>• Handling of Proper disposable material</li></ul>	Rescue 1122  District government  Traffic police

# 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, LOCAL BODIES 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

The early warning is received from resources like PDMA, Pakistan metrological department (heavy rains / wind or storms), PDMA SITREP, Hydrological department WAPDA Mangla dam,( flood / dam out flow), Rescue 1122 (Road accidents, Fires, Building Collapse, Drowning), Civil Defence & police (riots, violence, terrorist activities), Health (epidemics) through wireless system, emails, phone calls & SMS depending upon the nature & gravity of the warning.

## RESCUE STRATEGY

- Strategic Command will be done by the Deputy Commissioner being the Chairman of District Disaster Management Authority (DDMA) and District Emergency Board (DEB)
- The main focus of strategic command will be to establish the priorities and strategy for managing the flood situation and to supply the resources to deal with it.
- Strategic Command has established a clear and unambiguous command structure based upon the experiences of previous years, Geographical Condition of District, unpredicted Climatic changes, resources held and future challenges.
- A key function of Strategic Command will be to predeploy rescue and flood management Resources to District and Tehsil level Rescue Teams.
- Joint meetings of DDMA and DEB will be held before start of Flood season to review the preparation for the flood season, identify the resource gap/short comings and ensure timely completion / procurements.

## HUMANITARIAN ASSISTANCE

- All concern department will provide damages / loss reports
- DDMA shall prioritize need.
- Rescue 1122, Civil defence, MCs and Health Department will provide help in the respective areas of responsibility.
- DDMA will be facilitating & monitoring the humanitarian assatant.
- All correspondence will be made through DC in coordination with all departments in the District.
- 10 relief camps will be established by the district aministration with coordination of local administration.

## 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	Govt. Boys High School, Rasul	160	X: 32.69364 Y: 73.56814	6	Govt. Boys High School, Jokalian	165	X: 32.40659 Y: 73.29218
2	Govt. Boys High School, Mong	150	X: 32.64725 Y: 73.50758	7	Govt. Boys High School, Bharawal	400	X: 32.20608 Y: 73.32705
3	Govt. High School, Ahla	150	X: 32.594210 Y: 73.406913	8	Rafi-ul-Islam Boys School, Malakwal	450	X: 32.55365 Y: 73.20744
4	Govt. Boys Middle School, Chak Shahbaz	200	X: 32.30496 Y: 73.3523	9	Govt. Boys High School, Haria	240	X: 32.57334 Y: 73.30088
5	Govt. Elementary School, Kala Shadian	150	X: 32.30461 Y: 73.50248	10	Govt. High School, Majhi	200	X: 32.596346 Y: 73.365876

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

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	3	24	<ol style="list-style-type: none"> <li>1. Kala Shadian</li> <li>2. Ghanian</li> <li>3. Dharekan Kalan</li> <li>4. Qadirabad</li> <li>5. Pindi Kalu</li> <li>6. Jokalian</li> <li>7. Narang</li> <li>8. Saida</li> <li>9. Bhekho</li> <li>10. Chak Shahbaz</li> <li>11. Bhoa Hassan</li> <li>12. Dhunni Kalan</li> <li>13. Khamb Kalan</li> <li>14. Kot Sher Muhammad</li> <li>15. Bherowal</li> <li>16. Rasul</li> <li>17. Mong</li> <li>18. Kot Baloch</li> <li>19. Pindi Bahauddin</li> <li>20. Ahla</li> <li>21. Majhi</li> <li>22. Haria</li> <li>23. Badshahpur</li> <li>24. Mc Malikwal</li> </ol>	<ol style="list-style-type: none"> <li>1. Chak Fateh Shah</li> <li>2. Ahla</li> <li>3. Kotera</li> <li>4. Kotli Afghanan</li> <li>5. Arazi Bi Ludon</li> <li>6. Mir Khawni</li> <li>7. Kot Jolian</li> <li>8. Mohabat Pur</li> <li>9. Khewa</li> <li>10. Kharal Mohabat Pur</li> <li>11. Dato Chohr</li> <li>12. Chak Dawaar Ka</li> <li>13. Pindi Ahlani</li> <li>14. Kot Admana</li> <li>15. Mong</li> <li>16. Garehi Lachha Singh</li> <li>17. Chak Sardar Dial Singh</li> <li>18. Nawan Lok</li> <li>19. Kotli Khurd</li> <li>20. Dhapai</li> <li>21. Rasul</li> <li>22. Kot Baloch</li> <li>23. Badshahpur</li> <li>24. Katowal</li> <li>25. Muradwal</li> <li>26. Noor Pur Piran</li> <li>27. Bhagowal</li> <li>28. Chak Dadan</li> <li>29. Phapra</li> <li>30. Kirtowal</li> <li>31. Wara Chamian</li> <li>32. Kalowal/Kothera</li> <li>33. Naseer Pur</li> <li>34. Malikwal</li> <li>35. Hariah</li> </ol>

				36. Majhi
				37. Bahoo
				38. Sarang
				39. Bhagat
				40. Kot Kakay Shah
				41. Sahnpal
				42. Sahnianwala
				43. Mallian
				44. Bahri
				45. Takhat Mahl
				46. Chhani Saidan
				47. Chak Lakhia
				48. Rato
				49. Chak Kamaal
				50. Burj Ghanian
				51. Murid
				52. Randiali
				53. Jokalian
				54. Narang
				55. Manga
				56. Kotha Bholā
				57. Dhuni Kalan
				58. Bhoa Hassan
				59. Ghoghanwali
				60. Qadirabad
				61. Saida
				62. Chak Shahbaz
				63. Bhaikho
				64. Jago Khurd
				65. Kauray Karm Shah
				66. Mehlu Kohna
				67. Matoo
				68. Saddique Abad
				69. Mehlu Nau
				70. Dharam Kot
				71. Kapoor Kot
				72. Naushera
				73. Thati Shah Mohammad
				74. Chook Kalan
				75. Chhani Mughlan

					76. Alhan
					77. Kala Shadian
					78. Gadgor
					79. Dhola Kalan
					80. Thatha Gilgorian
					81. Dandka
					82. Farkh Pur Nau
					83. Bhutta Nau
					84. Khamb Kalan
					85. Thakkar Kalan
					86. Chot Kalan
					87. Basti Makhdoom
					88. Garh Lakkan
					89. Humber
					90. Walayatwala
					91. Kokara
					92. Burj Bukhtan
					93. Thathi Marran
					94. Chakori
					95. Waryam
					96. Fattowala
					97. Bherowal
					98. Burj Umar
					99. Farkh Pur Kohna
					100. Chaharkay
					101. Burj Gahna
					102. Chak Chot
					103. Akal Garh
					104. Burj Hassan
					105. Khamb Alam
					106. Qila Sardar Jawahar Singh
					107. Thatha Hakam Wala
					108. Bhekewal
					109. Chaito
					110. Dhuni Khurd
					111. Thatha Khan Muhammad
					112. Rakh Chhani Mughlan
					113. Chak Abdullah (Tun Pur)

				114. Jago Kalan
				115. Burj Marran
				116. Channi Marlan
				117. Noor Pur Katwi
				118. Jaunoki
				119. Chhani Gahna
				120. Chhani Sahanpal
				121. Thatha Nika
				122. Khoosar
				123. Bela Mushtarika
				124. Loung
				125. Sadullah Pur
				126. Kamoki
				127. Agroya
				128. Thati Murid
				129. Kaniaiwala
				130. Teluanwala
				131. Ranmal
				132. Thakkar Miana
				133. Chhajanwala
				134. Dhola Khurd
				135. Bhuta Kohna
				136. Chhani Mehram
				137. Thatha Alia
Urban Flooding				
Flash Floods				
Hill Torrent				
Tornado				
Earthquake				
Drought				
Epidemic				
Environmental Hazards (industrial				

accidents, severe pollution etc.)				
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## 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	DHQ Hospital, Mandi Bahauddin	32.582268 73.49039	Secondary	Dr. Mahaar Akhter Hussain Khan 3455459988	Low
2	THQ Hospital, Phalia	32.58266332 73.49126805	Secondary	Dr. Bushra Chaudhry 03005203087	Low
3	THQ Hospital, Malikwal	32.55931671 73.23576903	Secondary	Dr. Nasir Waqar 3338361644	Low
4	RHC Mong	32.64189215 73.51540118	Primary	Dr. Nasir Shahzaib Qasim 3246868007	Low
5	RHC Chellianwala	32.562744 73.61283383	Primary	Dr. Syed Mohsin Mehmood 3217745152	Low
6	RHC Kuthiala Sheikhan	32.4586 73.4107	Primary	Dr. Bilal Hassan 3347510852	Low
7	RHC Miana Gondal	32.37908689 73.15116052	Primary	Dr. Iftikhar Ahmad 3335370136	Low
8	RHC Bosal	32.22 73.18	Primary	Dr. Sultan Faisal Ijaz 3444210088	Low
9	RHC Rukkan	32.420979 73.284155	Primary	Dr. Atif Shehzad 3337742942	Low
10	RHC Bhekho More	32.326736 73.483498	Primary	Dr. Muhammad Akram Ayaz 3007740380	Low
11	RHC Jokalian	32.4014 73.7875	Primary	Dr. Shahroz Ghalib 3007560644	Low
12	RHC Pahrianwali	32.48129 73.77035	Primary	Dr. Adnan Shahzad 3334338078	Low
13	BHU Bansi Khurd	32.474818 73.708816	Primary	Dr. Maryam Younis 3014452876	Low

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
14	BHU Barmusa	32.371171 73.221004	Primary	Dr. Maryam Jamil 3337481679	Low
15	BHU Bhagowal	32.59280711 73.3348989	Primary	Dr. Ghazala Muzaffar 03348176780	Low
16	BHU Bherowal	32.12135 73.19401	Primary	Dr. Noureen Fatima 3370188424	Low
17	BHU Bhikhi Sharif	32.492552 73.422759	Primary	Kaneez Bibi 3006022311	Low
18	BHU Bhoa Hassan	32.288515 73.408989	Primary	Dr. Kiran Arshad 3124284141	Low
19	BHU Bhojowal	32.350184 73.338336	Primary	Dr. Sadia Nazir 3076866744	Low
20	BHU Chak No. 01	32.608122 73.619586	Primary	Nazir Ahmad 3466295787	Low
21	BHU Chak No. 02	32.56711 73.52085	Primary	Dr. Attiya Ghazanfar 3445644232	Low
22	BHU Chak No. 16	32.444642 73.314096	Primary	Muhammad Ashraf 3436518865	Low
23	BHU Chak No. 40	32.493712 73.382035	Primary	Muhammad Arshad Mughal 3417191545	Low
24	BHU Charanwala	32.53 73.686251	Primary	Dr. Taha Hussain 3364579939	Low
25	BHU Chot Dheeran	32.490803 73.181895	Primary	Dr. Maimoona Nawaz 3484511008	Low
26	BHU Daffar	32.25272 73.13251	Primary	Dr. Naila Munawar 3135782018	Low
27	BHU Dharekan Kalan	32.406153 73.687774	Primary	Dr. Aroosa Kanwal 3059790445	Low
28	BHU Dhoke Kasib	32.5759 73.63006	Primary	Dr. Muhammad Awais Iqbal 3487222051	Low
29	BHU Dhoke Shahani	32.56037 73.57519	Primary	Dr. Maryam Firdous 3125851225	Low
30	BHU Dhoul Ranjha	32.463661 73.534859	Primary	Dr. Junaid Anwar 3344931518	Low

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
31	BHU Dhunni Kalan	32.305175 73.382442	Primary	Dr. Yasir Arafat 3450412900	Low
32	BHU Ditto Chour	32.6101 73.425539	Primary	Dr. Ayesha Saddiqa Tarar 3480465201	Low
33	BHU Ghanian	32.393618 73.644938	Primary	Dr. Ayesha Arshad Natalia 3339602922	Low
34	BHU Harria	32.575719 73.306771	Primary	Dr. Mubashara Saeed 3217750647	Low
35	BHU Haslanwala	32.552281 73.755497	Primary	Dr. Sheeza Mujahid 03205512320	Low
36	BHU Hassan	32.564695 73.377666	Primary	Dr. Muhammad Bilal 3478422997	Low
37	BHU Kadhar	32.421338 73.487348	Primary	Dr. Muhammad Tayyab Abbas 3429883670	Low
38	BHU Kala Shadian	32.331882 73.569585	Primary	Dr. Noor-E-Sahir 3143935277	Low
39	BHU Khusar	32.42806 73.811759	Primary	Dr. Mehwish Nawaz 3346753952	Low
40	BHU Lakhneywala	32.618367 73.555441	Primary	Muhammad Azam 3016863376	Low
41	BHU Lala Pindi	32.483376 73.601714	Primary	Dr. Sana Nasar 3400520228	Low
42	BHU Mangat	32.5060483 73.5130406	Primary	Dr. Saba Fazal Dad 3369869400	Low
43	BHU Mianwal Ranjha	32.387672 73.448265	Primary	Dr. Syed Arslan Mustafa 3365859359	Low
44	BHU Mona Depot	32.427591 73.118058	Primary	Dr. Nida Akbar 3075405107	Low
45	BHU Mumdana	32.19629 73.14225	Primary	Dr. Komal Sajjad 3320458255	Low
46	BHU Murala	32.529858 73.68619	Primary	Dr. Noukheez Riaz 3007740771	Low
47	BHU Nain Ranjha	32.375894 73.372895	Primary	Dr. Arslan Ahmad 3246090049	Low

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
48	BHU Pind Makko	32.45163 73.099213	Primary	Dr. Usama Mashhood	Low
49	BHU Pindi Kalu	32.411529 73.723014	Primary	Dr. Rabia Komal Tarar 3335868922	Low
50	BHU Qadirabad	32.301706 73.511583	Primary	Dr. Umm-e-Farwa 3005599896	Low
51	BHU Rasul	32.6833991 73.5585738	Primary	Dr. Noor-e-Subah 3170645685	Low
52	BHU Rerka Bala	32.279254 73.29144	Primary	Dr. Laraib Kainat 3456988825	Low
53	BHU Sahna	32.84738 73.208229	Primary	Rasheed Ahmed 3466498500	Low
54	BHU Sanda	32.3099 73.15904	Primary	Dr. Anam 3338028450	Low
55	BHU Sevia	32.60852 73.68192	Primary	Dr. Barkaat Ahmad 3328010994	Low
56	BHU Sherewala	32.15904 73.19431	Primary	Dr. Behroz Khan 3366484981	Low
57	BHU Sohawa Bolani	32.543775 73.468829	Primary	Dr. Qurat Ul Ain 3246227193	Low
58	BHU Tibba Manak	32.361211 73.247745	Primary	Dr. Nayab Gohar 3328010994	Low
59	BHU Wara Alam Shah	32.497156 73.267361	Primary	Dr. Madiha Dar 3364281650	Low
60	BHU Waryat	32.39821 73.178247	Primary	Dr. Iqra Saif 3325166646	Low

## ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrollment	Incharge Name	Contact Number
1	GHS Narang	School	X: 32.42 Y: 73.82	340	Ashfaq Ahmad	03451550370
2	GGHS Narang	School	X: 32.42 Y: 73.82	410	Bakhtawer Rani	03422040526
3	GHSS Qadirabad	School	X: 32.30 Y: 73.50	1440	Salik Mehfoz	03338036911
4	GGHS Qadirabad	School	X: 32.29 Y: 73.50	1728	Farzana Badar	03460574912
5	GHS Jokalian	School	X: 32.40 Y: 73.78	512	Ishtiaq Ahmad	03461709445
6	GGHSS Jokalian	School	X: 32.39 Y: 73.77	913	Farzana Ghani	03455763009
7	GHS Khewa	School	X: 32.62 Y: 73.44	315	Hafiz Muhammad Akram	03444402436
8	GGHS Khewa	School	X: 32.62 Y: 73.44	505	Najma Bano	03349944453
9	GPS Kharlanwal Gharbi, Tehsil M.B.Din	School	X: 32.61822 Y: 73.43253	140	Zafar Iqbal	03338011180
10	GPS Ditto Chour, Tehsil M.B.Din	School	X: 32.61352 Y: 73.425900	145	Mukhtar Ahmad	03425853224
11	GPS Mong, Tehsil	School	X: 32.64582 Y: 73.51408	309	M.Ashraf	03143932702
12	GPS Gurha Hashim Shah, Tehsil M.B.Din	School	X: 32.63259 Y: 73.47758	138	Kashif Ali	03336113409
13	GPS NaseerPur, Tehsil Malakwal	School	X: 32.55400 Y: 73.21470	32	Javed Iqbal	03426643802
14	GPS Kot Admana, Tehsil Malakwal	School	X: 32.60262 Y: 73.38019	121	Imtiaz Ahmad	03479014323
15	GES Mailu Kohna, Tehsil Phalia	School	X: 32.28297 Y: 73.44762	534	Muhammad Safdar	03455766685
16	GES Noor pur katvi	School	X: 32.23397 Y: 73.39334	183	Muhammad Bukhesh	03447990802
17	GES Kala Shadian	School	X: 32.31909 Y: 73.57396	208	M. Akhtar Naushahi	03426311167

18	GES Farakh Pur Kohna	School	X: 32.25222 Y: 73.44784	141	Zafar Iqbal	03027756472
19	GPS Bhutta nau	School	X: 32.25276 Y: 73.41862	93	Amjad Farooq	03476606727
20	GPS Lokri Mardan Shah	School	X: 32.29972 Y: 73.50064	281	Yunas Ayaz	03344917270
21	GPS Chakori	School	X: 32.23508, Y: 73.40479	61	Adil Ameer	03414593696
22	GPS Thatta Khan Muhammad	School	X: 32.33475 Y: 73.54114	157	Khalid Mehmood	03466838488
23	GPS FarakhPur Nau	School	X: 32.25700 Y:73.439415	113	Safdar Iqbal	03466454266
24	GPS Noshehra Bhattian	School	X: 32.26233 Y: 73.4546	132	Mubashar Iqbal	03007847299
25	Gps Loha Tibba	School	X:32.509600 Y:73.773257	65	M. Farooq	03076248153
26	GPS Thatti Mararan	School	X: 32.24462 Y: 73.40026	100	Sajid Ali	03471428161
27	GPS Burj Bakhat	School	X: 32.25357 Y: 73.40271	105	M. Iqbal	03426857226
28	GPS Devi Garh	School	X: 32.2681 Y: 73.42684	90	Ahsaan Ullah	03334919774
29	GES BAHRI	SCHOOL	X:32.337992 Y:73.594424	295	Mazhar Iqbal	03065421091
30	GPS RATTO	SCHOOL	X: 32.34846 Y: 73.59232	165	Naveed Sarwar	03462670176
31	GPS Dera Komonkay	school	X:32.348330 Y:73.592547	51	Bushra Ashraf	03464371806
32	GPS Fatoowala	School	X: 32.15189 Y: 73.28735	145	Nawaz ahmad	03426553696
33	GES Mailu Kohna	School	X:32.417079 Y:73.840117	534	Muhammad Safdar	03455766685
34	GES Noor pur katvi	School	X:32.150357 Y:73.286612	183	Muhammad Bukhesh	03447990802
35	GGPS DERA Tibba	School	X: 32.35 Y: 73.25	83	Aqsa Shahid	03414779483
36	GMES Dhok Jori	School	X: 32.56 Y: 73.61	272	Kubra Parveen	03440582590
37	GMES Kothra	School	X: 32.40 Y:73.32	412	Hira Younas	03490330382
38	GMPS Rasul college	School	X: 32.40 Y: 73.33	107	Aatika Butt	03439379769
39	GGCMS Rasul Gown	School	X: 32.42 Y: 73.34	125	Munawer Sultana	03426683850
40	GMPS Wara Balian	School	X: 32.40 Y: 7333	247	Shnawer Noreen	03367162688

41	GGPS Dhapai	School	X: 32.41 Y: 73.33	58	Saima Irum	0340 0224219
42	GGPS Boora	School	X: 32.40 Y: 73.33	92	Rukhsana	03489726422
43	GGES Head Rasul	School	X: 32. 41 Y: 73.33	136	Sultana Razia	03440613252
44	GGES kotli Afghan	School	X: 32.39 Y: 73.31	268	Mariam Fatima	03083891965
45	GGPS Kot Jalian	School	X: 32.38 Y: 73.28	58	Dur e Shahwar	03400456040
46	GMPS BAGGA PUMP	School	X: 32.35 Y:73.25	284	Madeeha Batool	03217744060
47	Gmps Matto	School	X: 32.28 Y: 73.42	113	Shazia Kousar	03496865601
48	Ggps Qadir Abad No .2	School	X: 32.29 Y: 73.50	332	Shazia Tabbusam	03416661768
49	Gmps Chak Abdullah	School	X: 32.31 Y: 73.53	142	Afia Shaheen	03426660088
50	Gges Sheikh Ali Pur	School	X: 32.49 Y: 73.70	251	Iram Tahira	03464697176
51	Ggps Gadgor	School	X: 32.31 Y: 73.52	90	Zarina Shaheen	03446283264
52	Ggps Jago Kalan	School	X: 32.30 Y: 73.52	131	Uzma Rani	03458838774
53	Ggps Noor Pur Katvi	School	X: 32.23 Y: 73.39	60	Adeela Hussain	03424023985
54	Gmps Nawan Lok	School	X: 32.27 Y: 73.39	149	Nadeem Irshaad	03455760712
55	Gmps Channi Sahnpal	School	X: 32.37 Y: 73.73	58	Misbah Shameem	03455752877
56	Gmps Burj Ghanian	School	X: 32.37 Y: 73.65	141	Tanzila Naz	03491711191
57	Gmps Manga Kalan	School	X: 32.36 Y: 73.67	142	Ijaz Ahmad	03117963100
58	Gmps Thatti Murid	School	X: 32.37 Y: 73.64	90	Asma Zafar	03421664022
59	Gmps Chot Kalan	School	X: 32.13 Y: 73.20	228	Miss Amreen	03480715471
60	Gmps Khamb Kalan	School	X: 32.22 Y: 73.37	193	Shehnaz Akhther	03455866535
61	Gazali Model School Ratto	School	X: 32.299 Y: 73.50	115	Adeeba Bashir	03496071354
62	Educator School Qadir Abad	School	X: 32.31 Y: 73.54	450	Sohail Ismail	
63	Fatima Public School Qadir Abad	School	X: 32.299 Y: 73.51	70	Rashida Shaheen	03430517496
64	Fatima Jinnah Model School Mailu Kohna	School	X: 32.28297 Y: 73.44762	70	Iqra Bashir	03053341454
65	Islamic Educational Model School Tatha Khan Muhammad	School	X: 32.33475 Y: 73.54114	411	Humeera Jbeen	03076873600

66	Mustafai Model School Kala Shadian	School	X: 32.31909 Y: 73.57396	130	Shahid Imran	03445995005
67	Fatima Model School Bahoo Manga	School	X: 32.36 Y: 73.67		M.Zaman	03414841480
68	New Chinab Model School Jokalian	School	X: 32.40 Y: 73.78	477	Nimra Zareen	03401572557
69	Sherazi Junior Model School Mong	School	X: 32.65 Y: 73.52	508	Sadiq Ahmad	03455997770
70	Heven Rose School Mong	School	X: 32.65 Y: 73.52	120	Nazia Perveen	03440841739
71	Green Public High School Mong	School	X: 32.65 Y: 73.5545	133	Fozia Nosheen	03423733176
72	Mustafai Alsufa School Mong	School	X: 32.65 Y: 73.535	147	Taslim Zahira	0546626091
73	Gazali Model School Mong	School	X: 32.65 Y: 73.509	123	Nazir Ahmad	03342487405
74	Iqra Model School Mong	School	X: 32.65 Y: 73.521	109	Sobia	03466450005
75	Skill Model School Ditto Chour	School	X: 32.62 Y: 73.43	115	Khalil Ahmad	03455750085
76	Basharat Secondary School Khewa	School	X: 32.62 Y: 73.44	295	Kaniz Fatima	03416445605
77	Al Razi School Khewa	School	X: 32.62 Y: 73.44	227	Ishtiaq Ahmad	03421672534
78	Mustafai School Dhok Jori	School	X: 32.56 Y: 73.61	155	Mukhar Ahmad	03427501800
79	Islamia Model School Dhok Jori	School	X: 32.57 Y: 73.61	176	Ahmad Ali	03026285176
80	Al Qammar Model School Dhok Jori	School	X: 32.58 Y: 73.59	220	Syed Yaqob Shah	03426688838
81	Al Quaid Public School Rasool	School	X: 32.42 Y: 73.34	155	Jahangir Baig	03125752800
82	Heavenrose School Rasul.	School	X: 32.39 Y: 73.35	133	Sania Kamran	03024740116

## 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	Shah Taj Suger Mill (Pvt) Ltd.	Sugar Mills Road, Near Village Kullnala Syedan	X: 32.35 Y: 73.27	Chemical	0546570055, 0546570275	Low	Fire & Flood

## ANNEX VI: LIST OF NGOs 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	Anjuman Falah-e-Mareezan M.B.Din	Local	DHQ Hospital M.B.Din	Health Sector	Ch. Sana Ulah Mian Talat Mehmood	0546-502111 0334- 4903916
2	District Anti T.B Association M.B.Din	Local	Ward No. 5 City M.B.Din	Health Sector	Khawaja Muhammad Anwar	0321- 7751812
3	Faizan Welfare Organization M.B.Din	Local	Opposite Cinema Ground Anwar Fatima Hospital M.B.Din	Health Sector	Hassan Gondal	0300- 7563728
4	Hana Development Council M.B.Din	Local	Near Children Hospital Office Hameeda Waha- ud-din M.B.Din	Health Sector	Hameeda Waheed-ud- Din	0546-509606
5	Shehri Ijtamai Taraqiati Council (SHATAC)M.B.Din	Local	Usmania Mohalla shatac Street City M.B.Din	Health Sector	Haji Abdul Hameed Blund	0321- 7744477
6	Al-Mustafa Welfare Society Phalia	Local	Phalia city	Women Development	Muhammad Iqbal Gondal	0345- 9000577
7	Custodian Welfare Society M.B.Din	Local	Mohalla Toheed Ganj City M.B.Din	Women Development	Dr. Nagina Sadaf	0300- 7751700
8	Sahara Welfare Organization Wasu Tehsil M.B.Din	Local	VPO Wasu	Women Development	Ghulam Murtaza	0301- 6875252
9	Waseela Welfare Council Pahrianwali Tehsil Phalia	Local	Pahrianwali Tehsil Phalia	Women Development	Muhammad Azmat	0346- 6497242
10	Human Rights Welfare Society M.B.Din	Local	Main Street Guraha Mohalla City M.B.Din	Literacy	Manzar Sajjad	0321- 7747411
11	Nauman Hearing Welfare Society M.B.Din	Local	Rasool road near saim nala city M.B.Din	Disable Welfare	Mian Hassam- ud-Din	0321- 5451810

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.
12	Pakistan Association for the Blind M.B.Din	Local	Usmania Mohalla City M.B.Din	Disabled Welfare	Hafiz Muhammad Ilyas	0345- 5767421
13	Rehber Welfare Society Bhairowal Tehsil Phalia Distt M.B.Din	Local	VPO Bhairowal Tehsil phalia	General Welfare	Yasir Irfat	0345- 6961973
14	Al-Nasir Welfare Society Chot Dheran Tehsil Malakwal Distt M.B.Din	Local	VPO Chot Dheran Tehsil Malakwal	General Welfare	Tahir Aziz  Ghulam Shabir Tarar	0321- 5867000  0300- 6127879
15	Public Development Foundation Gorah Moh. M.B.Din	Local	Sufi City Road Guraha Mohalla City M.B.Din	General Welfare	Saima Shahid	0349- 4610915
16	Sahil-e-khizer welfare council Shahidanwali M.B.Din	Local	Shahidanwali Road City M.B.Din	Education Sector	Sarfraz Ahmad	0340- 6241390
17	Ehsaas Welfare Council Chak No. 41 Tehsil M.B.Din	Local	Chak No. 41	Women Development	Afzal Ahmed Bhatti	0300- 7561503

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

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters ADC (R) Mandi Bahauddin	Touqeer Ilyas Cheema	0546-506488	0546-650177	0300-6477220
1	Commissioner	Zulfiqar Ahmad Ghumman	055-9201326		
2	RPO	Rao Abdul Kareem	055-9200604		
3	DCO	Tariq Ali Basra	0546-504220	0546-504200	0304-0920068
4	DPO	Muhammad Anwar Saeed Langah	0546-502324	0546-505115	0323-5989999
5	ADC Revenue	Touqeer Ilyas Cheema	0546-506488	0546-650177	0300-6477220
6	ADC General	Muhammad Shafiq	0546-650315		0332-5280529
7	ADC (F & P)	Ghulam Murtaza	0546-650184		0345-8998584
8	AC – M.B Din	Imtiaz Ali Baig	0546-650224		0345-9200005
9	AC - Malikwal	Usman Ghani	0546-591276		0300-4487417
10	AC - Phalia	Sajid Munir Kalyar	0546-596460	0546-587199	0300-2421717
11	DEO Rescue 1122	Imran Khan	0546-513633		0321-5141122
12	DO Civil Defence	Ali Imran	0546-508505		0300-4806002
13	DDMC PDMA	Iftikhar Ahmed Raja	0546-650251		0300-5146140
14	Superintendent DC Office (FP Floods)	Rana Muhammad Arshad	0546-650251	0340-1123626	0300-5146140
15	XEN Irrigation (Qadirabad)	Maqbool Ahmed	0547-550190		0333-4560981
16	XEN Irrigation (Rasul)	M. Adnan	0546-553211		0345-5165764
17	XEN Irrigation (Gujrat)	M. Azeem	053-9260398		0333-5901500
18	XEN Jhelum	Muzaffar Jappa	0544-9270331	0345-6500439	0320-4119659
19	Rangers, M.B Din	Col Qazi Shahid Samad	0546-510172	0546-502272	0335-1116800
20	Army, Sialkot Cantonment	Major Shoaib	0544-9270331		0346-3737118
21	DSP Traffic	Tariq Shafi	0546-600067		0323-0411717
22	Tehsildar – M.B Din	Qazi Munib ur Rehman	0544-9270331		
23	Tehsildar - Malikwal	Shuja Zafar	0546-591277		0300-4126528
24	Tehsildar - Phalia	Sheikh Jameel	0546-596460	0333-4572319	0300-5172327

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
25	CEO Health	Dr. Ilyas Ahmad Gondal	0546-650150		0333-8007872
26	CEO Education	Syed Touqeer Hussain Shah	0546-507517	0331-1467331	0322-6278512
27	AD Livestock	Dr. Mumtaiz Baig	0546-650110		0342-7751000
28	DD Agriculture	M. Iqbal	0546-650390		0345-8669859
29	District Food Controller	Arshad Tarar	0546- 501881		0333-6444634
30	XEN PHED	Khadim Hussain	0546-508598		0333-6444634
31	XEN Drainage	Ahmad Rehman	0546-506302		0304-4400338
32	COMC – M.B Din	Fiaz Ahmad	0546-509504		0300-6203473
33	COMC – Malikwal	Bashir Ahmad Tarar	0546-591631		0300-7754580
34	COMC - Phalia	M. Irfan Gondal	0546-596039		0343-7987022
35	District Information Officer	Raja Mansoor	0546-506850		0334-9998222
36	DD Local Government	Vacant Post	0546-650180		
37	DD Social Welfare	Atif Ali Warriach	0546-650022		0301-6711445
38	AD Labour Welfare	Saqib Hayat	0546-508294		0300-3694714
39	AD (Environment)	Muhammad Atif Imran			0321-6243040
40	SNA	Muhammad Nabeel	0546-520258		0306-7560001
41	XEN GEPCO, M.B.Din	Shahzad Ameen Mirza	0546-504920		0318-3992330
42	FM Radio 98, M.B Din	Maj. Muhammad Nasir Javed	0546-509898	0546-509897	0321-7759898

## ANNEX VIII (A): LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact		Time Required to be on- board
				Number and Email	Blood Group	
1.	Tanveer Ahmad s/o Bashir Ahmad	34403-4727810-3	Bhoa Hassan	0341-5837905	B+ve	45 Min
2	Ghulam Mustafa s/o Ghulam Murtaza	34403-9287899-3	Waryam Tehsil Phalia	0345-3902043	B+ve	45 Min
3	Shahid Imran s/o Muhammad Khan	34403-9415808-9	Dhunni kalan Tehsil Phalia	0347-7687539	O+ve	45 Min
4	Zeesan Haider s/o Khizar Hayat	34403-9313479-7	Farrukh Pur Kohna	0343-0149705	O+ve	45 Min
5	Nauman Khan s/o Bashir Ahmad	34403-5556480-7	Noshehra Bhattian	0340-4921507	B+ve	45 Min
6	Khurram Shehzad s/o M Inayat	34403-5355246-5	Jago Kalan Qader Abad	0348-5824668	B-ve	45 Min
7	Mazhar Iqbal s/o Ghulam Shabir	34403-2567890-1	Nwan Lok Bhoa Hassan	0344-6526257	O+ve	45 Min
8	Ehsan Ullah s/o M Iqbal	34403-1735921-7	Melo kohna Phalia	0341-6534219	AB+ve	45 Min
9	Bilal Hassan s/o M Mansha	34403-8668836-1	Nwan Lok Bhoa hassan	0346-6574709	A-ve	45 Min
10	Manazar Ali s/o M Siddique	34403-1859292-5	Jajja Hor Phalia	0342-6216817	A +ve	45 Min
11	Munawar Iqbal s/o Riaz Ahmad	34403-1500338-3	Channi Gahna	0341-6579865	O +ve	45 Min
12	Aamir Shehzad s/o M. Riaz	34403-7772765-1	Rerka Zeren Phalia	0341-0521482	B+ve	45 Min
13	Zaheer Abbas s/o Sikander Hayat	34403-5100989-9	Rerka Bala	0340-4188436	O -ve	45 Min
14	Waqas Nazir s/o M. Nazir	34403-6142761-1	Rerka Bala	0346-3567116	O +ve	45 Min
15	Shafqat Ali s/o M Anwar Shakar	34403-0518303-1	Chak No. 43 Phalia	0343-6518655	O +ve	45 Min
16	Tayyab Ali s/o Mukhtar Ahmad	34403-1542293-5	Rerka Bala	0342-6819515	O +ve	45 Min
17	Mudassar Iqbal s/o Mubashar Iqbal	34401-2981788-5	Head Faqeerian	0347-8562146	A +ve	45 Min

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
18	Ali Mujtaba Rizvi s/o Syed Rifaqat Ali Shah	34402-5370842-9	City mandi	0345-0911478	O+ve	45 Min
19	Mazhar Hussain s/o Ahmad Khan	34403-2562938-1	Dhunni kalan	0346-6605806	B+ve	45 Min
20	Qasim Ali s/o Muhammad Boota	34402-1165986-3	City mandi	0341-7341990	O +ve	45 Min
21	Tasneem Abas s/o Painsa	34403-0873248-7	Bherowal	0349-6951384	AB-ve	45 Min
22	Aamir Waqas s/o M. Hadayat	34403-2847795-5	Kot Sher Muhammad	0343-1416083	A +ve	45 Min
23	Muhammad Bilal s/o Mukhtar Ahmad	34401-7201785-3	Nwan lok	0346-2839705	O+ve	45 Min
24	Ikram Ullah s/o M Inayat	34403-1947672-1	Noor Pur Chikore	0342-7507026	O+ve	45 Min
25	M Shehr Yar s/o Saif Ullah	34403-3813515-1	Dhunni kalan	0340-6138445	B+ve	45 Min
26	Muhammad Shafique s/o Muhammad Ashraf	34401-6487788-9	Head faqeerian	0306-2502340	A-ve	45 Min
27	Imran Abbas s/o M Ahmad	34403-0677427-5	Chak Shehbaz	0347-7758322	O+ve	1 hour
28	Toqeer Nasir s/o Muhammad Iqbal	34403-1151252-1	Noshehra	0347-6992527	B-ve	45 Min
29	Faisal Shehzad s/o Muhammad Arshad	34403-6349701-3	noshehra	0348-6207758	B+ve	45 Min
30	Shamriz Iqbal s/o M Mansha	34403-4936392-5	Noshehra	0345-4873211	O+ve	45 Min
31	Muhammad Usman s/o Muhammad inayat	34402-0848210-3	King Chok	0342-4658674	AB-ve	1 Hour
32	Ghulam Raza s/o Dost Muhammad	34403-7474954-7	Farrakh Pur	0344-0843338	B+ve	45 Min
33	Bashart Hussain s/o M Arif	34403-4401981-5	Qader Abad	0342-8433058	O-ve	45 Min
34	Sajjad Ahmad s/o Sharaf Din	34403-9178206-3	Qader Abad	0344-6525125	O+ve	45 Min

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
35	Ghulfam ali s/o M Jehangir	34403-2857063-5	Kory karam Shah	0347-6046138	O+ve	30 Min
36	Usman Aziz s/o Abdulaziz	34403-3108826-7	Qader Abad	0348-0714702	A+ve	45 Min
37	Muhammad Afzal s/o Muhammad yasin	34402-1718939-1	Shafqat Abad	0321-7743587	AB+ve	45 Min
38	Muhammad Aslam s/o Jan Muhammad	34403-1921741-3	Farrakh pur	0346-0878486	O+ve	45 Min
39	Naseem Akram s/o Muhammad Akram	34402-3562879-3	Ratto wal	0349-9561647	AB+ve	45 Min
40	Shaukat Hyat Tarar s/o M Hayat Tarar	34403-1948995-7	Kala Shadian	0345-5867070	B+ve	45 Min
41	M Amir Shehzad s/o Ghulam Nabi	34403-4586765-5	Dhunni	0301-6865308	O+ve	45 Min
42	Khizar hayat s/o Muttli Khan	344031880721-9	Farrakh pur	0340-1756231	O-ve	45 Min
43	Hamza Fateh s/o Muhammad Ashraf	34402-9262376-7	Shafqat Abad	0348-4219624	O+ve	45 Min
44	Zulifqar Ali s/o maskeen Ali	34403-1902004-3	Qader abad	0333-4659977	O-ve	45 Min
45	Muhammad Aslam s/o Baqar Ali	34403-7225886-3	Farrakh Pur	0343-1595989	O+ve	45 Min
46	Yasir Walait s/o Walait Ahmad	34403-4422444-3	Raaiqy	0344-6289104	O+ve	45 Min
47	Mushtaq Hussains/o Ghulam Rasool	34403-2197001-9	Raaiqy	0342-6460304	O+ve	45 Min
48	Muhammad Abdulrehman s/o Muhammad Rafique	34403-2035821-1	Phalia	0305-5085019	AB+ve	45 Min
49	Shahid Iqbal s/o Muhammad Hussain	34401-8362792-1	Raaiqy	03436175661	O-ve	1 Hour
50	Syed Asad Abbas s/o Abbas Ali shah	34403-7655557-7	Kot nabi Shah	0344-5212408	O+ve	45 Min
51	Zarwi Khan s/o Abdulkareem	34402-8973644-9	Head fakeerian	0343-6512129	AB+ve	45 Min

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
52	Muhammad Walait Bhatti s/o Shah Muhammad Bhatti	34403-6237521-9	Raaiiky	0344-6551078	O+ve	45 Min
53	Saeed Anwar s/o Muhammad anwar	34403-0460307-5	Raaiiky	0349-4724557	O+ve	45 Min
54	Shaukat ali s/o Muhammad shafi	34403-7906179-1	Nwan Lok	0341-3825220	O-ve	45 Min
55	Ghulam Razzaq s/o Anar	34403-7151173-3	Farrakh pur	0308-4562169	O+ve	45 Min
56	Allah Ditta s/o Tahiri	34403-2825619-7	Farrakh pur	0301-6704902	AB+ve	45 Min
57	Muhammad Anar s/o Ghulam Haider	34403-1910250-8	Dhunni	0341-6079275	O-ve	45 Min
58	Muhammad Anayet s/o Ghulam Haider	34401-2434878-7	Rerka Bala	03447514814	O-ve	45 Min
59	Muhammad Imtiaz s/o Basher Ahmad	34401-4447789-1	Miana gondal	0301-6944344	AB+ve	45 Min
60	Shoaib Hassan s/o Muhammad Nawaz	34401-3647247-9	Boosal Masoor	0347-9337785	O+ve	45 Min
61	Qamer Abbas s/o Ahmed Khan	34403-0590532-1	Gunian sanda	0348-8224584	O-ve	45 Min
62	Ahmed Sher s/o Muhammad Bux	34403-9938852-9	Rerka bala	0343-2018278	O+ve	45 Min
63	Muzammal Hussain s/o Bati Khan	34403-9483111-1	Noshehra	0340-4104970	O+ve	45 Min
64	Muhammad Nawaz Shamim s/o Ali Muhammad	34401-0620623-3	Farrakh Pur	0306-8821635	O+ve	45 Min

## ANNEX VIII (B) : LIST OF SWIMMERS/DIVERS

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Tasneem Abas s/o Painda	34403- 0873248-7	Bherowal	0349-6951384	AB-ve	45 Min
2	Aamir Waqas s/o M. Hadayat	34403- 2847795-5	Kot Sher Muhammad	0343-1416083	A +ve	45 Min
3	Muhammad Bilal s/o Mukhtar Ahmad	34401- 7201785-3	Nwan lok	0346-2839705	O+ve	45 Min
4	Ikram Ullah s/o M Inayat	34403- 1947672-1	Noor Pur Chikore	0342-7507026	O+ve	45 Min
5	M Shehr Yar s/o Saif Ullah	34403- 3813515-1	Dhunni kalan	0340-6138445	B+ve	45 Min
6	Imran Abbas s/o M Ahmad	34403- 0677427-5	Chak Shehbaz	0347-7758322	O+ve	1 hour
7	Toqeer Nasir s/o Muhammad Iqbal	34403- 1151252-1	Noshehra	0347-6992527	B-ve	45 Min
8	Faisal Shehzad s/o Muhammad Arshad	34403- 6349701-3	noshehra	0348-6207758	B+ve	45 Min
9	Shamriz Iqbal s/o M Mansha	34403- 4936392-5	Noshehra	0345-4873211	O+ve	45 Min
10	Ghulam Raza s/o Dost Muhammad	34403- 7474954-7	Farrakh Pur	0344-0843338	B+ve	45 Min
11	Bashart Hussain s/o M Arif	34403- 4401981-5	Qader Abad	0342-8433058	O-ve	45 Min
12	Sajjad Ahmad s/o Sharaf Din	34403- 9178206-3	Qader Abad	0344-6525125	O+ve	45 Min
13	Ghulfam ali s/o M Jehangir	34403- 2857063-5	Kory karam Shah	0347-6046138	O+ve	30 Min
14	Usman Aziz s/o Abdulaziz	34403- 3108826-7	Qader Abad	0348-0714702	A+ve	45 Min
15	Muhammad Aslam s/o Jan Muhammad	34403- 1921741-3	Farrakh pur	0346-0878486	O+ve	45 Min
16	Naseem Akram s/o Muhammad Akram	34402- 3562879-3	Ratto wal	0349-9561647	AB+ve	45 Min

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
17	Shaukat Hyat Tarar s/o M Hayat Tarar	34403-1948995-7	Kala Shadian	0345-5867070	B+ve	45 Min
18	M Amir Shehzad s/o Ghulam Nabi	34403-4586765-5	Dhunni	0301-6865308	O+ve	45 Min
19	Khizar hayat s/o Muttli Khan	344031880721-9	Farrakh pur	0340-1756231	O-ve	45 Min
20	Zulifqar Ali s/o maskeen Ali	34403-1902004-3	Qader abad	0333-4659977	O-ve	45 Min
21	Muhammad Aslam s/o Baqar Ali	34403-7225886-3	Farrakh Pur	0343-1595989	O+ve	45 Min
22	Shaukat ali s/o Muhammad shafi	34403-7906179-1	Nwan Lok	0341-3825220	O-ve	45 Min
23	Ghulam Razzaq s/o Anar	34403-7151173-3	Farrakh pur	0308-4562169	O+ve	45 Min
24	Allah Ditta s/o Tahiri	34403-2825619-7	Farrakh pur	0301-6704902	AB+ve	45 Min

## 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-85	Haji Imtiaz Ahmed Choudhary		0321-7740017	PP-65	HAMEEDA MIAN		0300-8418242
NA-86	NASIR IQBAL BOSAL		0300-5557267	PP-66	Muhammad Tariq Tarar		0300-8742740
				PP-67	Sajid Ahmad Khan		0300-4113797
				PP-68	GULRAIZ AFZAL GONDAL		0301-8651865

## ANNEX X: LOCAL GOVERNMENT

### District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	CO Tehsil Council	Mandi Bahauddin	Salik hussain	0546-507485	0321-6207000
2	CO Tehsil Council	Phalia	Rizwan Bashir Agha		0300-6238806
3	CO Tehsil Council	Malakwal	Muzzamil hussain		0345-5004730
4	CO Municipal Committee	Mandi Bahauddin	Sumair Intizar	0546-509504	0306-6450235
5	CO Municipal Committee	Phalia	Irfan Gondal	0546-596039	0343-7987022
6	CO Municipal Committee	Malakwal	Bashir Ahmed Tarar	0546-591631	0300-7754580

### Town Level

S#	Tehsil	TC	Chair	Chair Contact	Vice Chair	VC Contact
1	M.B Din	Nil	N/A	N/A	N/A	N/A
2	Phalia	Nil	N/A	N/A	N/A	N/A
3	Malakwal	Nil	N/A	N/A	N/A	N/A

# ANNEX XI: DATA COLLECTION PROFORMAS

## 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)
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## P2: Deceased Person Reporting Proforma

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
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## P3: Injurd Person Reposrting Proforma

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
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**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.
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**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
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**P6: Relief Distribution Tracking Proforma**

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

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

S#	Location/ Destination	Arrival Date and time	Items	Quantity	Items short (if any)	Items sent by	Driver name	Received by	Bilty no
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**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
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**P8: Relief camp registration Proforma**

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
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**P9: NGOs registration proforma**

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.
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**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
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## 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	33,650
3	Jhang Division	Jhang Flood Protection Bund	71000
4	Qadirabad Barrage Division	Left Marginal Bund	64938
5	-do-	Right Marginal Bund	106300
<b>Total in feet.</b>			<b>296888</b>
<b>Total in Miles.</b>			<b>56.22</b>
<b>BAHAWALPUR ZONE</b>			
1	Punjad Head works Division	Right Marginal Bund	70554
2	-do-	Left Marginal Bund	65169
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	115300
<b>Total in feet.</b>			<b>266,023</b>
<b>Total in Miles.</b>			<b>50.23</b>
<b>MULTAN ZONE.</b>			
1	Trimmu Division	Right Marginal Bund	54,000
2	-do-	Left Marginal Bund	46,000
3	Sulemanki Division	Left Marginal Bund	47,500
4	-do-	Right Marginal Bund	63,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	48,000
6	-do-	Akbar Flood Bund	21,710
<b>Total in feet.</b>			<b>280,210</b>
<b>Total in Miles.</b>			<b>53.07</b>
<b>D.G.KHAN ZONE</b>			
1	Taunsa Barrage	Right First Defence Bund	23,500
2	-do-	Left Marginal Bund	133,200
3	-do-	Shahwala Groyne	66,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	188000
5	-do-	Doaba Flood Bund.	19000
6	-do-	Khangarh Flood Bund	153,000
7	-do-	Shehr Sultan Flood Bund	134000
8	Jampur Construction Division	Jampur Flood Bund	170720
9	-do-	Laskani Flood Bund	26365
<b>Total in feet.</b>			<b>913,785</b>
<b>Total in miles</b>			<b>173.06</b>

<b>LBDC(IP)</b>			
1	Balloki Head works Division	Left Marginal Bund	28,350
2	do	Right Marginal Bund	26,500
<b>Total in Feet</b>			<b>54,850</b>
<b>Total in miles</b>			<b>10.38</b>
<b>LAHORE ZONE</b>			
1	FLOOD Bund Division Narowal	Jassar Highway Bund	20,000
2	do	Rayya flood Bund	40,000
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	11,250
6	Marala Division UCC	Left Marginal Bund	68,639
7	do	Right Marginal Bund	6316
8	Lahore Drainage Div.	Shahdara Flood Protection Bund	15,750
<b>Total in Feet</b>			<b>169,295</b>
<b>Total in miles</b>			<b>32</b>
<b>Grand total in miles</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	Punjnad 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	9.5	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	11	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	8.75	1.5	2	3	4.5	6
	Punjnad	7	1.5	2	3	4.5	6
RAVI	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4.25	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
SUTLEJ	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
	Islam Mailsi Syphon	3 4	0.5 0.75	0.8 1.1	1.2 1.5	1.75 2.25	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.