

# DISTRICT DISASTER MANAGEMENT PLAN (DDMP) 2020

District Kasur  
Division Lahore



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## EXECUTIVE SUMMARY

Estimated number of people at risk of **floods** in 2020



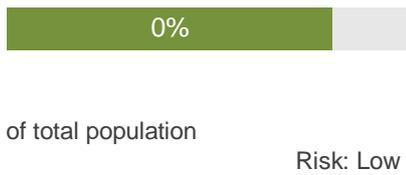
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Estimated number of people at risk of Drought in 2020



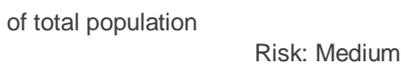
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Estimated number of people at risk of earthquake in 2020



XX

Estimated number of people at risk of epidemic in 2020



The local governments have a key role in identifying and understanding the hazards and risks that could impact on the safety and sustainability of their communities. At local level, DDMA, with technical assistance from PDMA, will prepare District DRR/DRM Plan keeping in view the detailed analysis of risks and vulnerabilities of the area, mapping of capacities available with public and private sector, and clearly defined roles and responsibilities of district line departments to be performed in pre- and post-disaster phases. The District Disaster Management Plans will also provide long-term DRM vision, key priorities and financial arrangements necessary for implementing programs and activities aimed at making the local communities resilient to hazards and threats from potential climatic changes. The DDMPs will not entirely focus on structural or engineering solutions but equal importance will be given to non- structural aspects of DRM. DDMA will endorse the DDMP for final approval.

## **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, NGOs);
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## **DISTRICT PROFILE**

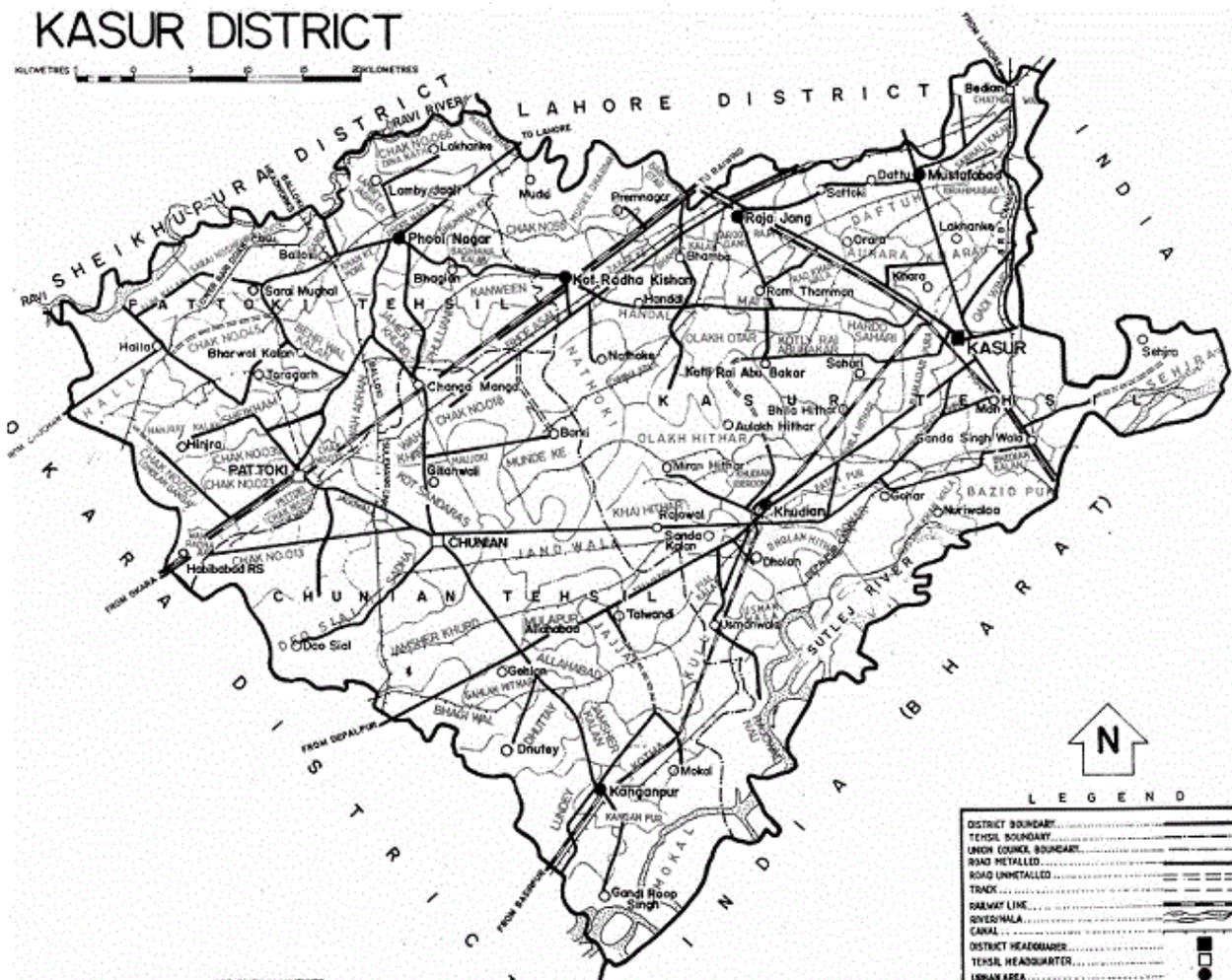
District Kasur is situated near Lahore. The total area of the district is 3,995 square kilometers and Kasur city is the district capital. The district is administratively subdivided into 4 tehsils (Kasur, Chunian, Pattoki and Kot Radha Kishan) and 125 Union Councils. Earlier it was part of Lahore District but was declared as a separate district on 1 July 1976 with two tehsils; Kasur and Chunian. In 1992, the tehsil Chunian was bifurcated into two tehsils, Chunian and Pattoki. Later, Kot Radha Kishan was declared as a separate tehsil. The district is connected to Lahore and the adjacent districts by a network of roads and rail.

In ancient time, Kasur was known for its education and fish. The history of Kasur is more than 1,000 years. Kasur region was agricultural region with forests during the Indus Valley Civilization. The Kasur region was ruled by Maurya Empire, Indo-Greek kingdom, Kushan Empire, Gupta Empire, White Huns, Kushano-Hephthalites and Shahi kingdoms. The Mughal Empire ruled Kasur for 200 years. After and during the decline of the Mughal Empire, the Sikhs took over the Kasur District. Most of the Punjab region was annexed by the East India Company in 1849, and was one of the last areas of the South Asia to fall under British colonial rule. During the British Raj, the irrigation canals were built that irrigated large areas barren lands of the Kasur District. The principal tribes and clans residing in Kasur District are Rajput, Arain, Jat, and Dogars. Other smaller tribes and clans in Kasur include Bhatti, Malik, Sunyare Mayo, Dogar, Ansari, Sheikh and Pathan. The refugees from East Punjab that settled in the district largely belonged to these tribes and clans.

### **Geology and Climatology**

Kasur district is bounded by the Ravi River in the north-west and river Sutlej in the south-east. Whereas the old course of Beas River bifurcates the district into two equal parts locally known as Hither and Uthar or Mithan Majh. Both of the areas have a height differential of approximately 5.5 meters. The natural surface elevation of the district is 198 meters above the sea level, having a general slope from north-east to south-west. Whereas the east and west ends of the district comprise the flood plains of the rivers Satluj and Ravi, characterized by breaching of looping river channels braided around meander bars. Kasur district is situated at a distance of about 55 km towards south of Lahore, on the Lahore-Ferozpur Road. The district has Indian Territory on the south and east, across the Sutlej River, Lahore district on the north, Okara district on the south-west and Nankana Sahib district on north-west.

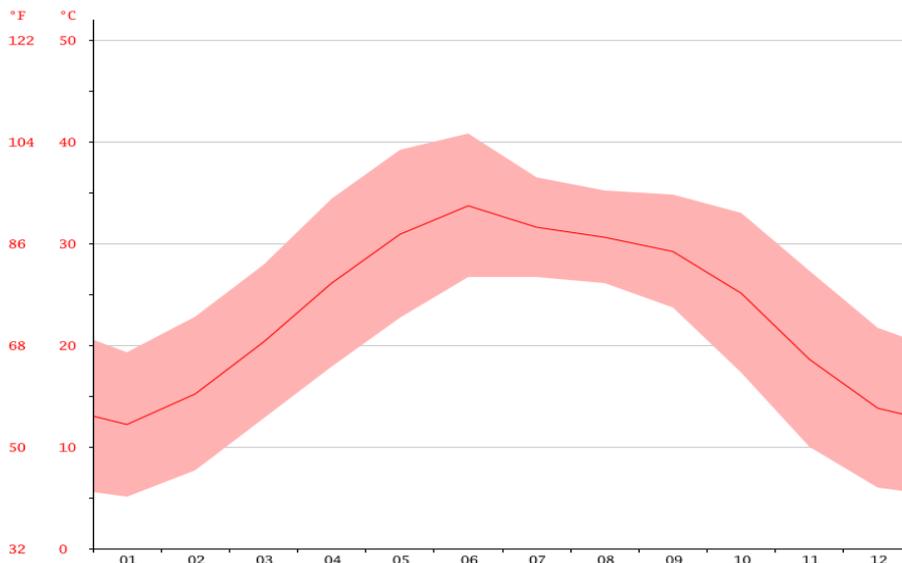
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Figure 1: District Kasur Map<sup>1</sup>

Kasur's climate is a local steppe climate. There is little rainfall throughout the year. According to Köppen and Geiger, this climate is classified as BSh. The temperature here averages 23.9 °C. About 424 mm of precipitation falls annually. Precipitation is the lowest in November, with an average of 3 mm. The greatest amount of precipitation occurs in July, with an average of 125 mm. At an average temperature of 33.7 °C, June is the hottest month of the year. The lowest average temperatures in the year occur in January, when it is around 12.2 °C. Between the driest and wettest months, the difference in precipitation is 122 mm. The variation in temperatures throughout the year is 21.5 °C.<sup>2</sup>

<sup>1</sup><http://www.politicpk.com/wp-content/uploads/2016/12/Kasur-District-Map-with-Tehsils.gif>

<sup>2</sup><https://en.climate-data.org/location/3512/>

**Table 2: Monthly Climate**

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## OBJECTIVES

The specific objective for development of the Plan include:

1. Document Hazard, Vulnerability and Risk Assessments at district level.
2. Analyze institutional systems for disaster management at district level and give recommendations for strengthening the same
3. Develop a comprehensive portfolio of interventions and strategies for disaster risk management in Punjab and DDMA's
4. Recommend Disaster Management Measures for both Geological and Meteorological hazards and develop Standard Operating Procedure (SOPs) for relevant stakeholders for Pre, during and post disaster situations
5. Identify and document roles and responsibilities of key district stakeholders before, during and after the disaster

## Socio-Economic Indicators (Average)

Sr. No.	Particulars	Numbers
1.	Population	237,587,5
2.	No. of Tehsils	3
3.	No. of UCs	113
4.	No. of Revenue Estates	637

5.	Population Density (people per km <sup>2</sup> )	594.9
6.	Family Size	7.0
7.	Pop Growth Rate	2.03
8.	PCI	
9.	District GDP/Annual Income	
10.	Poverty Rate	
11.	Patient/Doctor Ratio	1/1300
12.	Average Mortality Rate (AMR)	6.8/1000
13.	Infant Mortality Rate(IMR)	48.7/1000
14.	Mother Mortality Rate (MMR)	140/100000
15.	Literacy Rate	36.2%
16.	Punjab Malnutrition Rate (PMR)	38%
17.	Malnutrition Rate in District Layyah	38%
18.	Percentage of population having access to clean drinking water	30%
19.	Annual Crime	

#### Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
237,587,5	50.8%	49.2%	44.0%	45.2%	2.6%

Source/Note: Population Department

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
337,649	111,750	225,899

Source/Note: ADLG Office

#### Area (in acres)

Total Area of District in Km <sup>2</sup>	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
3,995	808,110	NA	NA

Source/Note: Education Department Kasur

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
36.2%	44.7%	18.1%	57.2%	40.6%	47.6 %	23.1 %



## 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	2011	12941	NA	NA	NA	NA	NA	NA
2	2013	16530	NA	NA	NA	NA	NA	NA
3	2015	24440	NA	NA	NA	NA	NA	NA
4	2018	6387	NA	NA	NA	NA	NA	NA

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## Disaster History – Other disasters (since 1970)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

## General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Lahore is at Medium Risk to Flood Okara is at low risk to River flood Sheikhupura is at medium Risk to River Flood
Topographical Features	
Weather/Climate pattern	E.g. max. And min. temperature, annual precipitation, storms, heat waves, snow fall etc. Weather Mostly Dry & Hot ,Climate change posed its severe impacts on lively hood & likely hood
Major Rivers	Name of river, passing through areas along with length in the district Major Barrages and their Flood levels <b>Ravi &amp; Sutlej</b>

Major Nullahs / Streams	Name of river, passing through areas along with length in the district Flood levels
Motorway/Highway	Vulnerable points of motorway/highway
Railways	Vulnerable points of Railway
Geological features	e.g. fault line, mountainous areas etc.

## DDMA (District Kasur)

## Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
		X: Y:				
		X: Y:				

## Major Embankments/Bunds

Name of Embankment	Length (Miles)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/ vulnerable Points	GPS Location of Critical/ Vulnerable Points	Remarks
Haya Bund	2.22	NA	NA	NIL	NIL	This bund joins Right Marginal bund at RD. 35+600. This bund is also used for the Defense purpose. The bund was constructed to protect area from the spill of Rohi Nullah Diversion
Left Marginal Bund	8.64KM	Tehsil Pattoki	Tehsil Pattoki	RD 12000 to 13000 of left marginal bund	31.2405 46N 73.8967 49E	This bund is recently rehabilitated by PIU and in excellent condition
Right Marginal Bund	2.62	NA	NA	NIL	NIL	This portion of Right Marginal Bund of Ferozpur head works falls in the territory of Pakistan. This bund will protect the nearest villages i.e. Ladeke, Sheikh Pura, Kamalpura, Mahiwala etc. The main gauge of Talwar post exists on its RD. 30+000. This bund is also used for the Defense purpose.

Link Bund	2.56	NA	NA	NIL	NIL	This bund along right Marginal bund and Railway guide bund are very important for the protection of large area of nearest villages like as Burg Rajuke, Chanda Singh Wala, Sultan Shah Wala, Bhedian Kalan and Ganda Singh Wala etc.
The Bund (A)	0.27	NA	NA	NIL	NIL	This is very small bund constructed near to save the Link Bund.
The Bund (B)	0.15	NA	NA	NIL	NIL	This is very small bund constructed near to save the Link Bund.
Railway Guide Bund	1.5	NA	NA	NIL	NIL	Before partition of Indo-Pak a railway track was provided from Ganda Singh Wala to Ferozpur Head works for carriage of stone. After partition, the track was removed and the formation was converted into a regular flood bund. This bund is also used for the Defense purpose.
Right Retired Embankment	1.5	NA	NA	NIL	NIL	Right retired embankment was constructed in set back position of the portion of right Marginal bund which exists in the territory of India to save the Right marginal bund and also to protect the nearest village of Nizam Sanda and Sanda Kalan.
Loop Bund	0.35	NA	NA	NIL	NIL	Due to Indian action of demolishing the portion of Right marginal bund and other allied spurs on right side of Sutlej River falling in Indian Territory, a loop bund was constructed to join the Sufaida Bund with Right retired embankment and to protect the same areas of Nizam Sanda etc. This bund is also used for the Defence purpose.
Sufaida Bund	0.47	NA	NA	NIL	NIL	This bund was constructed to protect the large area of the villages of Fatuhi Wala, Singh Sahib wala and saa Jughian etc, it meets with the Ferozpur road from its starting point. This bund is

						also used for the Defense purpose.
Flood/Defense Bund near village ullake	1.9	NA	NA	NIL	NIL	In order to check the river area a defense bund in a length of 9500 ft was constructed during 2001-2002. This bund will protect the areas of village Ullake and Walle Wala.
Flood / Defence Bund near village Bedian Usman Wala	1.7	NA	NA	NIL	NIL	The flood/defence bund from village Bedian Usman Wala to village kot Chak Bodal had been constructed to check the River erosive action during flood. This flood embankment has been constructed by the Pak Army during year 2001-2002.
Lower Ganja Minor Flood Embankment	8.57	NA	NA	NIL	NIL	Left Bank of Lower Ganja Minor Head to tail has been converted into flood embankment to Project large area falling on Right side of Minor from spills of River Sutlej.
Flood embankment along lower Ganja Sub Minor	2.04	NA	NA	NIL	NIL	The flood embankment along left bank of lower Ganja Minor from RD.0-10200 was constructed during 1989 to check the spill of River Sutlej and to save Sub Minor from damage.
Flood embankment along left bank of Depalpur Canal	4.17	NA	NA	NIL	NIL	Depalpur Canal runs parallel to Sutlej River at a short distance. To save the Channel and area on the right from spill water during floods, the left bank of Depalpur Canal from RD-136000 to 156860 was converted into flood embankment.
Flood embankment along Fateh Muhammad Disty	17.52	NA	NA	NIL	NIL	River Sutlej has been meandering towards Pakistan since 1952 consequently some portions of Fateh Muhammad Disty were washed away during different times and diversions had to be made in setback position. Subsequently, left bank of the channel was converted into flood embankment.
Flood embankment along Laluguddar Disty	2.86	NA	NA	NIL	NIL	Laluguddar Disty also remained under the river action. The channel was damaged at various places. A flood embankment along the

and Kanda Minor						channel was constructed to save the same from its further damaging.
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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		
		X: Y:					
		X: Y:					
		X: Y:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
		X: Y:			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:

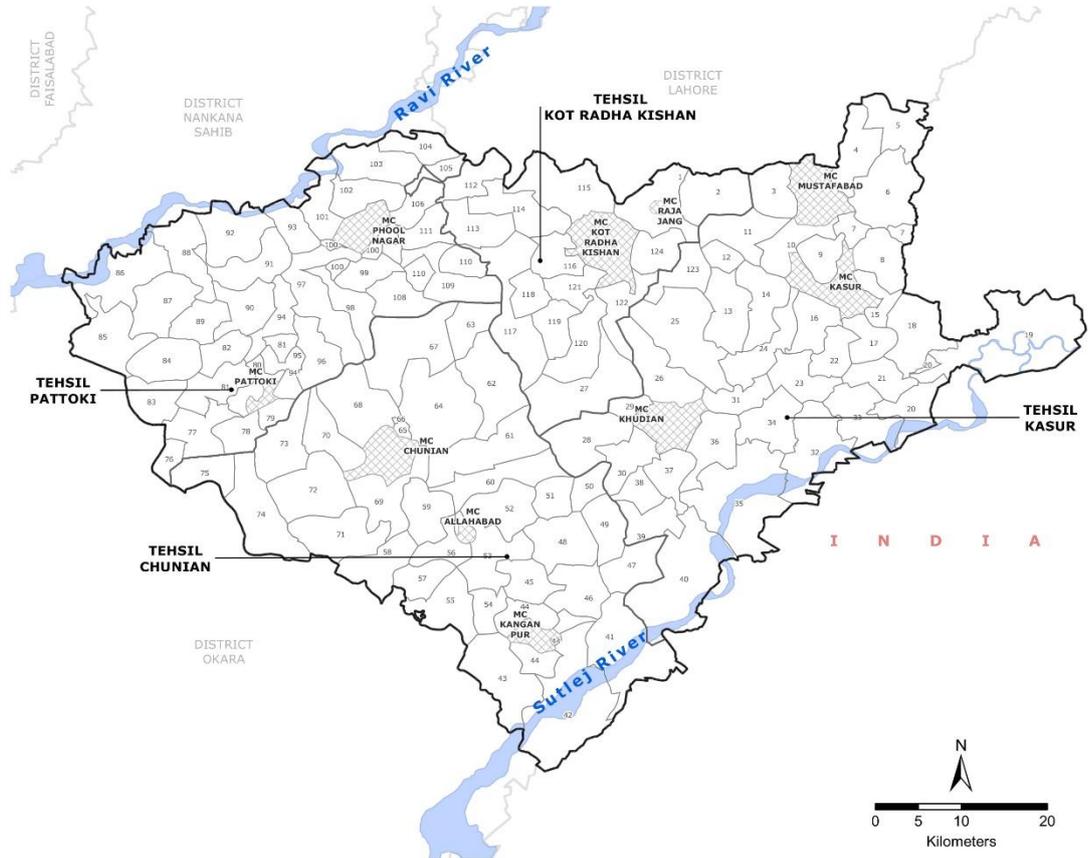
**Airport / Landing Strips**

Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
		X: Y:			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:

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

Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
		X: Y:			X: Y:
		X: Y:			X: Y:

Union Council Map of District Kasur, Punjab, Pakistan



**Legend**

- River
- MC Area
- Union Council
- Tehsil
- District
- Neighbouring District

PAGE SIZE: A3 (16.5" X 11.7")  
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**COORDINATE SYSTEM:**

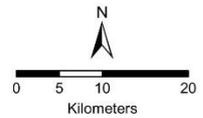
Coordinate System: WGS 1984  
 Datum: WGS 1984  
 Prime Meridian: Greenwich  
 Angular Unit: Decimal Degree

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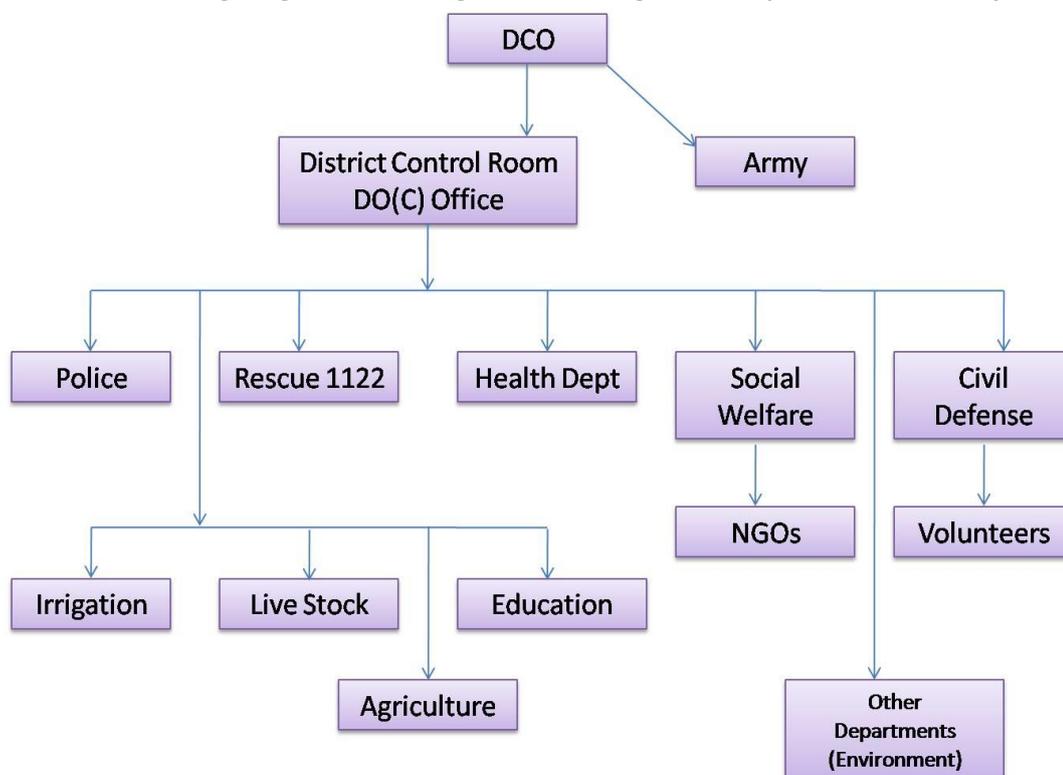
Project Implementation Unit (PIU)  
 Provincial Disaster Management Authority (PDMA)  
 Government of the Punjab



Source:

## COORDINATION MECHANISM

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



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

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

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

- a) prepare a disaster management plan including district response plan for the district;

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

#### **District Plan:**

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

**Additional Powers of District Authority:**

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

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

**Revenue Department (Functions and Responsibilities)**

In case of any disaster or calamity the head of the revenue department in the district i.e. the DC 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, and XENs etc.
- Pre-flood meeting should be held and duties of all concerned officers and departments should be clearly defined and assigned.
- A district disaster management plan should be prepared using the set template and updated regarding any disaster or emergency that may strike the district.
- A focal person for the disaster or calamity should be nominated and his/her number should be communicated to all concerned departments.
- Proper stock taking should be done regarding available stocks of food and rations. Similarly stock regarding machinery and equipment should also be taken and inventories should be prepared. Out of order machinery should be repaired or replaced.
- Committees should be formed and constituted which will deal with various functions during a flood or emergency. Purchasing of food items, food, and machinery should all be done through committees.
- Identification of Low lying, medium and high vulnerability levels with flood level
- In case of evacuation the district administration should be very clear about the places where the relief camps or shelters will be established. Teams should be formulated which will look after these camps and will be in-charge for provision of tents, food, water and maintaining general law and order. Provision of cooked food is also to be ensured.
- Proper ware houses and stores should be made available for storing of aid and donated items that may be received from authorities such as PDMA, WFP etc. A committee should be constituted to look after the record of all the items in the store.



- Proper crop surveys or girdawaris should be conducted through the revenue officials so that crop damage assessment can be made after disaster or flood affects the district. These surveys will also help in determining the identity of the true owners as well.

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- 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 defense 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

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**Tehsil / Town Municipal Committee**

- Tehsil / Town Municipal Committee plays an important role of providing municipal services in the district including clean drinking water, sanitation facilities, maintenance of parks and removal of encroachment etc.
- Tehsil / Town Municipal Committee will provide assistance to the District Government for setting up and management of relief camps/ operations.
- TMAs are responsible for provision & restoration of water and sanitation facilities in their municipalities besides disposal of waste or rain water/sewerage.
- TMAs are equipped with trucks, water bowsers, and tractors, dewatering sets, bulldozers, loaders and dump trucks. All of these equipment are utilized to restore proper sanitary facilities, ensure the delivery of clean water and remove debris or excess water.
- TMAs sanitary workers can be employed for cleaning relief camps, or other such areas which has been affected by any disaster. TMAs employ de-watering sets to remove excess water. All TMAs are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The TMA maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- TMA should ensure supply of clean drinking in overhead reservoirs and ensure supply to the affected areas or relief camps through water bowsers. Clean drinking water is a major issue and requirement during any disaster.
- In case of any disaster that requires people to be relocated, the TMA under the concerned Administrator i.e ADC/AC will assist in the migration of the affected people.
- During the relief effort and subsequent rehabilitation effort the, the local TMAs manpower can be effectively used for the distribution of food and essential commodities among evacuated people or any other relief activity such as provision of cash compensation.

**District Disaster Management Authority (DDMA)**

- DDMA's are created under the 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 DCO. The office of the DCO fully supported by the DPO and line departments such as Health, Agriculture, Livestock, Civil Defense, 1122, TMAs 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 TMAs.



- 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 councilors 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 (R) iv. Two Elected  
Representatives to be nominated by the Chair
  - v. Representative of Pak Army
  - vi. Two Representatives of NGOs/Civil Society to be nominated by the Chair
  - vii. District Officer (Coordination) viii. ADC (F&P)

- ix. Chief Executive Officer (DHA)
  - x. Executive District Officer (Health)
  - xi. Executive District Officer (Education)
  - xii. Chief Executive Officer (DEA)
  - xiii. SP Special Branch xiv. XEN Irrigation / Public Health
  - xv. District officer Civil Defense
  - xvi. Administrators of Tehsil Municipal Administrations
  - xvii. All Tehsil Municipal Officers 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 Government
- District Governments must establish a Disaster / Flood control room at the DCO'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 upstream in case of a flood.
  - The District Government would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Governments will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
  - 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.
  - EDO (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 and 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)**

For any emergency Disaster Emergency Control Room is a permanently operative section of District Government. It is located in District Complex Layyah. This office is well connected with functionaries by multiple communication mediums including Telephone, Wireless and Internet service. This office is responsible for reporting the updated situation to the District Government and Provincial Control Room.

The Actions are initiated to pass information to functionaries through the same office.

**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 Defense 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 programed 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 DC is responsible for all the coordination with Military. As the situation demands, the District Coordination Officer communicates and request for Mobilization and Demobilization of Army Troops through the procedure defined by the Provincial Government. District Government is responsible for facilitation of Army Troops deployed within Area of Emergency.

**Volunteer Network**

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

DDMA & 1122 along with civil defense Layyah for operating a network in District Layyah. Village Disaster Management Committees (VDMC) comprise upon 15 members belonging to a village and neighboring dwellings. VDMCs have been trained for Emergency response through a series of trainings, and, have been provided with Emergency Response Kits, comprising upon necessary items for early response to a flood disaster. VDMC are member of Union Council Disaster Management Committees (UDMC) in -- Union Councils. Which are also member of District Disaster Forum Layyah. Overall number of volunteers is 1030 Each of the members have access to Early Warning System, have been trained for Emergency response & Rescue, and have participated in Hazard Identification exercises. Each VDMC and UDMC have prepared their own Disaster management Plan and Evacuation Plan in case of a (flood) emergency including a Disaster Risk Reduction Plan. District Disaster Forum Layyah (Network) remains available to DDMA Layyah during emergency.

## RISK ANALYSIS

### 1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	3	3	9
Urban Flooding			
Flash Floods			
Hill Torrent			
Glacial Lake Outburst Flood (GLOF)			
Landslide			
Tornado			
Earthquake	3	3	9
Drought	3	3	9
Epidemic	2	2	4
Fire Incidents	3	3	9
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	2	2	4
Environmental Hazards (industrial accidents, severe pollution etc.)	4	3	12

Risk = Impact x Likelihood

Low : 1-7

Medium : 8-14

High : 15-25

## 2. Hazards

- *Disasters occurred over the past two to three decades and their impact on communities and development sectors*
- *Provide a brief description of the hazards being planned for (medium and high risks), including potential location that could be affected;*
- *Briefly outline the triggers*

Hazard mapping plans Risk reduction plans at Village and Union Council level are readily available with District Disaster Management Forum Layyah. Which may be available to District Disaster management Authority (DDMA)

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

Education Facilities in Kasur



Source: District Govt Kasur



3.

### Response & Operational Capacity

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

At Government level DDMA, Rescue 1122 and Civil Defense have their plans ready, needs and shortfalls have been identified in their plans, duly communicated to competent authorities. Other line departments act according to instructions received from Flood Control center, all NGO working in the district response strategy is shared with district Govt.



## Strategic Reserves

Items	Available	Functional	Repairable	Extra Demand
Boats	24	6	18	0
OBM	21	6	15	0
De-watering sets	0	0	0	0
Navigators	0	0	0	0
GIS devices	0	0	0	24
Life Jackets	196	150	46	0
Life Ring	56	46	10	0
Life Lines	0	0	0	24
Scuba diving suit with complete accessories	3	3	0	2
First Aid Kits	31	31	0	0
Rescue Bag	45	45	0	0
Safety Harnesses	0	0	0	10
Ambulances	22	18	4	10
Fire Brigade	06	05	01	05
Water Tanks / Boozers	01	01	0	02
Extendable Ladders	0	0	0	02
Hydraulic Cutter	1	1	0	04
Sonar Rader	0	0	0	02
Jumping Sheet	0	0	0	20
Dumpers	0	0	0	0
Excavators	0	0	0	0
Cranes	0	0	0	0
Bulldozer	0	0	0	0
Boat Carrier/Trolleys	02	02	0	5
Pickups/Jeeps/4x4 vehicles/Mini Trucks	0	0	0	05
Searchlight	0	0	0	50
Tent	61	61	0	0
Mosquito Net	0	0	0	50
Plastic Mat	60	60	0	0
Blanket	0	0	0	0
Any other main relief/rescue equipment	0	0	0	Search Cam-01 Rain Suit-100



5.

				Umbrella-20
Generator Sets	0	0	0	15 KVA-07 03 KVA-10
Gas-Cutters	01	01	0	01
Navigator/GPS Tracker	0	0	0	24
Floating Rope	0	0	0	50

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### Gaps and Constraints

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

Logistic obstacles faced by District Govt time to time ,different sort of equipment as mentioned above is missing and request sent to concerned office ,technical man power is another bottle neck especially at the time of disaster. 25<sup>23</sup>



## MITIGATION STRATEGY

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

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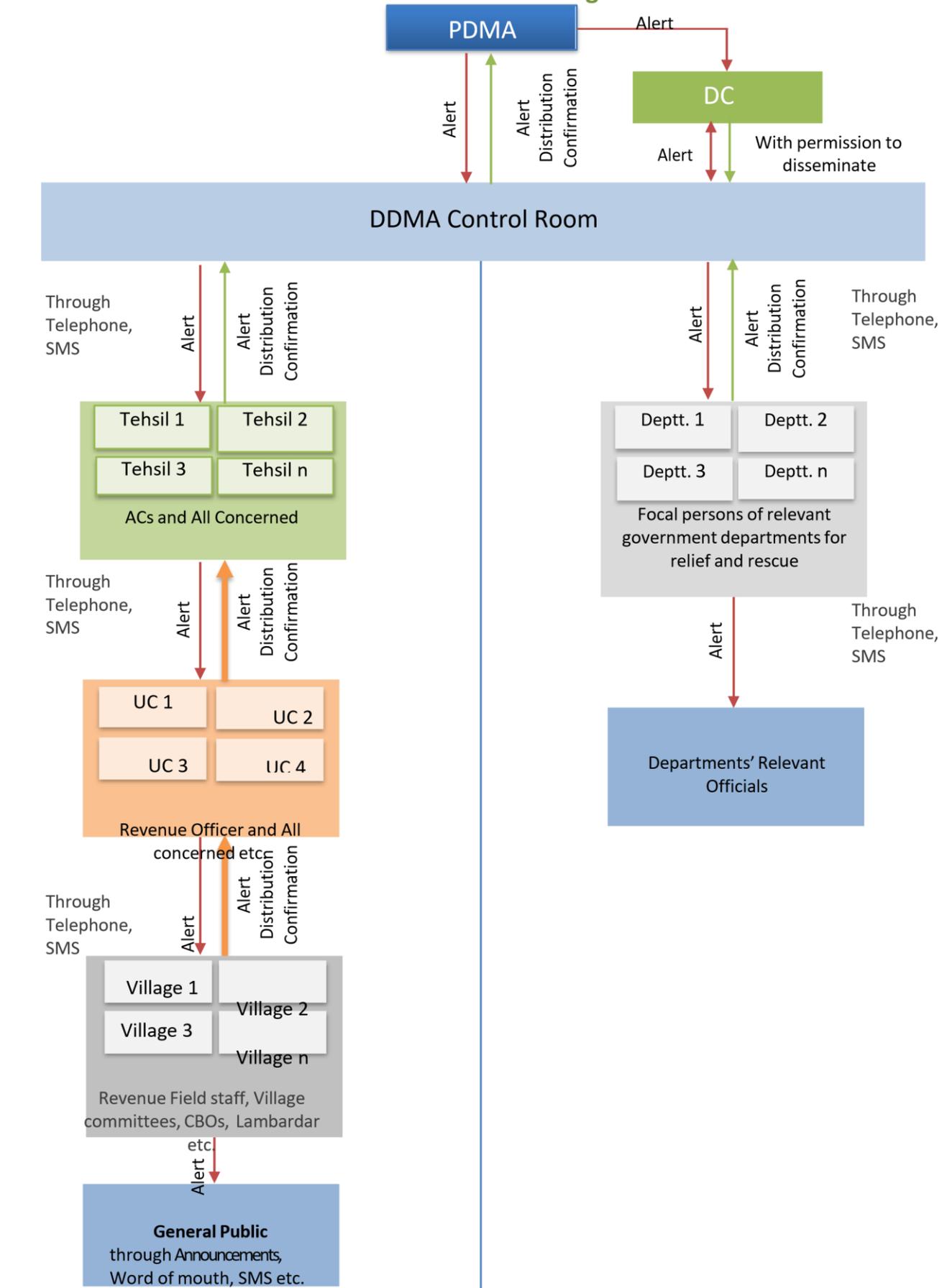
Hazards	Mitigation Actions	Responsible Department
Floods	<ul style="list-style-type: none"> <li>• Strengthening of embankment with stone pitching and repair of embankment where local people cut down the embankment for ways or any other purpose.</li> <li>• Tree plantation in flood prone areas.</li> <li>• Get the people of flood prone areas aware regarding the importance embankment.               <ul style="list-style-type: none"> <li>▪ Construction of embankment where it is still not constructed.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Irrigation Dep.</li> <li>• Revenue Department</li> <li>• DDMA/Recue 1122/</li> <li>• Civil Society</li> <li>• Pakistan Army</li> </ul>
Urban Flooding		
Flash Floods		
Hill Torrent		

Glacial Lake Outburst Flood (GLOF)		
Landslide		
Tornado		
Droughts		
Epidemic	<ul style="list-style-type: none"> <li>• Awareness raising programme on prevention against Epidemics</li> <li>• Medical Treatment of patients</li> <li>• Conducting vaccination camps and clinics through health outreach teams</li> </ul>	<ul style="list-style-type: none"> <li>• Health/TMA/District Government Health</li> </ul>
Fire Incidents	<ul style="list-style-type: none"> <li>• Conducting mock exercise and drill</li> <li>• Capacity building of volunteers/Razakars on rescue and relief mechanisms during fire incidents</li> <li>• Provision of adequate fire mitigation equipment to different tehsil headquarters for prompt action</li> <li>• Mobilization of ambulances and vehicles</li> </ul>	<ul style="list-style-type: none"> <li>• Rescue 1122</li> <li>• Fire Brigade</li> <li>• Civil Defence</li> </ul>
Other Major Accidents (Building Collapse, road traffic accidents, train accident,	<ul style="list-style-type: none"> <li>• Conducting mock exercise and drill</li> <li>• Capacity building of volunteers/Razakars on rescue and relief mechanisms during fire incidents</li> <li>• Provision of first aid kit to volunteers to provide relief to effectees</li> </ul>	<ul style="list-style-type: none"> <li>• Rescue 1122</li> <li>• Highway Police/Traffic</li> <li>• Police</li> <li>• Highways and District Government</li> </ul>

Stampede, plane crash)	<ul style="list-style-type: none"> <li>• Provision of adequate fire mitigation equipment to different tehsil headquarters for prompt action</li> <li>• Mobilization of ambulances and vehicles</li> </ul>	
Environmental Hazards (industrial accidents, severe pollution etc.)	<ul style="list-style-type: none"> <li>• Awareness Raising campaigning on environment at community level</li> <li>• Initiating tree plantation and nurseries projects</li> <li>• Carrying energy efficiency project that includes biogas and solar panel generated projects</li> <li>• Inspection &amp; Correction and capacity building of communities on environment hazards</li> </ul>	<ul style="list-style-type: none"> <li>• Environment department</li> </ul>
Earthquake	<ul style="list-style-type: none"> <li>• Retrography</li> <li>• Use of building code</li> </ul>	<ul style="list-style-type: none"> <li>• Building Department</li> <li>• TMA</li> <li>• Works Department</li> </ul>

**EARLY**  
**WARNING**

### Information Flow Diagram



## Alertness Levels

Following four levels alertness have been established:

<p><b>Level-D</b> (Disaster threat is perceptible)</p>	<p>DDMA shall conduct monthly meetings besides at least 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> (Alert Warning issued and likelihood of occurrence is less than 100%)</p>	<p><b>Activities to be undertaken in level D</b></p> <p>+</p> <p>DDMA shall issue "alert" 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 DCO and DPO shall grant leave according to the situation.</p> <p><b>Activities to be undertaken in level C</b></p> <p>+</p>
<p><b>Level-B</b> (Disaster threat is imminent)</p>	<p>DDMA shall issue EW to all stakeholders and "High Alert" for the district to ensure that all additional HR and material resources including volunteers has reported to their assigned duties, and all resources for evacuation and disaster management have been mobilized as per DDMP. All emergency (health, fire, rescue 1122, TMA etc) facilities shall work 24/7 with full staff strength. DDMA shall monitor the situation on hourly basis.</p> <p><b>Activities to be undertaken in level B</b></p> <p>+</p>
<p><b>Level-A</b> (Disaster is materialized)</p>	<p>DDMA shall respond to the emergency immediately and shall carry out rescue and relief operation as defined in DDMP and shall continuously monitor the situation. Resources of adjoining districts shall be mobilized and Army may be called keeping in view the magnitude of the disaster.</p>

## Early Warning

*Briefly describe how the early warning will be received from provincial level? Who is the focal person at district level?*

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

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

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

Through SMS , Announcement, Patwaris and policemen etc... the information desalinated from District Govt to Concerned authorities of revenue department and the information desalinated to local Govt representatives .Than information pass on to UDMC(union council disaster management committee in which five members are especially trained on EW from each UC of the district and then Doaba Foundation Layyah a national NGO 's GIS computerized Early Warning & Planning model along with SMS system further desalinate the information.

## RESCUE STRATEGY

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

The action to be taken for immediate response depends upon the information received. In case of a disaster emerging slowly, followed by Early Warning the arrangement are made accordingly. In case of abrupt Disaster, Rescue 1122 and other line department are taken on board by DDMA  
DCO will ask the Pakistan army when the situation is sever in regard with disaster.

### Flood Forecasting and Early Warning System

Flood Forecasting and Early Warning System should be announced by Irrigation Department, Patwaris and through announcement in loud speakers of masjid. Master control Room which is controlled by Met office issues forecast information to Flood Control Room. Rescue 1122 is looking after Flood control Room and that disseminate area on alerts to residents living in vulnerable areas.

District Emergency Control Room disseminates immunity flood information to residents of low lying areas by blowing risers which are installed along River Sindh. District Control Room also plays role coordination & Communication along all stakeholders.

After receiving information of pre alert through District Flood control Room, all the relevant stakeholders are part on high alert and their team start deployment in highly vulnerable low lying areas.

### DISASTER PREVENTION CONTROL CENTRE (DPCC)

A Central Flood Control Centre has been established at DC Office building, under the command of Deputy Commissioner & with the assistance of District Emergency Officer, Rescue 1122. This Control Room shall be the source of dissemination of information to the concerned departments and will also act as Operation Centre for coordinating all response activities. All the concerned departments / emergency service

## RESCUE STRATEGY

The flood control measures described in this plan shall be put into effect on receipt of Pre-Alert Warning Phase. The entire administrative set up i.e. Machinery, Equipment, and staff of the District Administration shall be immediately mobilized along banks of River Sindh

## HUMANITARIAN ASSISTANCE

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

Humanitarian Assistance is extremely helpful in coping up disasters. Trained Volunteers of Rescue 1122 and other networks such as District Disaster Forum are in contact for deployment. However untrained mobs are avoided to access the disaster scene.

The data is collected by committee formed by District Coordination officer, committee consist of revenue representatives, numberdars, local representatives On the collected data the need will be priorities.

DDMA, DDMC and sub committees, civil society, Pak army and local volunteers provide the assistance to affectees from early warning, search and rescue, cooked and uncooked food.

Sphere standards are used as per previous practice for camping and managing

There is enough capacity as for as District Govt is concerned at least 150000 person will provide assistance.

The District Govt is very keen for the protection especially Govt gender based protection is on the first in agenda, especially keen for children and person with disabilities.

# 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	GPS Coordinates
1	District Public School, Kasur	3340	NA	11	Govt. Girls High School, Pial Kalan	2625	NA
2	Technical College, Raiwind Road, Kasur	2390	NA	12	Govt. Primary School, Usman Wala	650	NA
3	Cricket Ground Degree College, Kasur	1000	NA	13	Veterinary Hospital, Usman Wala	6645	NA
4	Govt. College for Boys, Kasur	3350	NA	14	Elementary School Chak No. 66	106	NA
5	Commercial College, Kamal Chisti, Kasur	3450	NA	15	Boys Elementary School, Cheemba	175	NA
6	Govt. College for Women, Kasur Govt. Islamia School, Kasur	3450	NA	16	Degree College for Girls, Phool Nagar	102	NA
7	Govt. Girls Middle School, Baqarkey	2650	NA	17	Boys Elementary School, Sindhu	200	NA
8	Govt. Boys Primary School, Baqarkey	2204	NA	18	Boys High School No. 2, Phool Nagar	271	NA

9	Govt. Boys High School, Usman Wala	7350	NA	19	Boys Elementary School, Katar Mal	67	NA
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**DDMA (District**

10	Govt. Girls High School, Usman Wala	1640	NA	20	Girls High School, Hala	117	NA
21	Boys High School, Alpa Kalan	76	NA	24	Govt. High School, Mokal	392	NA
22	Commuity Model School, Qazi Wala	1350	NA	25	Govt. Higher Secondary School, Kangar Pur	415	NA
23	Govt. High School, Mokal	1900	NA				

**Note: More camps will be established according to intnsity of flood and population affected.**

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

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Kasur, Chunain, Pattoki	NA	NA	Bhiki Wind, Nager Eman Pura, Mabokey, Dhoop Sari, Chaant, Basti Chanan,
		NA	NA	Basti Ibrahim, Mahi Basti Ibrahim, Mahi Wala, Fatti Wala, Chanda Singh Wala, Kamal Pura
		NA	NA	Bhiki Wind, Kali Wara, Tali Mohallam
		NA	NA	Sanda Nizam, Fattohi Wala, Ullahkey
		NA	NA	Kilcha Madona, Haku Jhugian, Mambekey, Usman Wala
		NA	NA	Patra Hithar, Basti Muhammad, Ratney Wala Khurd, Ratney Wala Kalan, Thati Fareed
		NA	NA	Johd Singh Wala, Attar Singh Wala, Herdo Sheikh Saad
		NA	NA	Johd, Tatrekey, Gandan Wala, Dhainkey, Raju Wal Nau
		NA	NA	Mohalam, Noor Pur Dogran, Khilji Jageer, Goher Jageer
		NA	NA	Theh Kamal, Sheikh Pura, Langyana, Mangal Singh Wala, Mohkey Kay
		NA	NA	Peer Ahmed Wala, Mahmokey Sharaf, Ganja Kalan, Mater, Tataru Wasil
		NA	NA	Ganja Khurd, Sanda Khanwa, Rangey Wala, Mahmokey Khizara, Mahmokey Mehmood
		NA	NA	Mubara, Budh Singh Wala, Najabat, Saddar, Nathel Key
		NA	NA	Nathey Khalsa, Nathey Jageer
		NA	NA	Lakhankey, Bhangoor, Gaga Sarai
		NA	NA	Kamo Geel, Lambey Jageer

		NA	NA	Goher Gulab Singh, Aulakh Bonga, Bonga Mardan
		NA	NA	Balloki, Bonga Mala, Jajja Kalan, Arey Wala
		NA	NA	Dholu Gurokey, Tani Key
		NA	NA	Dholu Multani, Ojla, Bath Kalan
		NA	NA	Alpa Kalan, Alpa Sadari, Bongi lala, Mandali
		NA	NA	Basti Dhingey Wali, Kot Sunder Singh, Tailan Wali
		NA	NA	Sherey Wala, Basti Chanbian Wali, Mansoo Wala, Mashmola Mokal
		NA	NA	Quli Saho, Loley Jattan, Dhari Sadiq, Dhari Shakoor, Dhari Farzand, Dhari Ashiq Dogar, Kothi Fateh Muhammad
Urban Flooding				
Flash Floods				
Hill Torrent				
Tornado				
Epidemic	Kasur, Chunain, Pattoki, Kot Radha Kishan	Any where In District	Any Where In District	Any Where In District
Environmental Hazards (industrial accidents, severe pollution etc.)	Kasur, Chunain, Pattoki, Kot Radha Kishan	Any where In District	A  nywhere In District	anywhere In District

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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	BHU Sehjra	NA	Primary	Doctor Shehzad 0302-4526292	Threat of flood but not earthquake
2	Burj Kalan	NA	Primary	Doctor Ahmad 0322-4209700	No threat of flood and earthquake
3	RHC Ganda Singh Wala	NA	Primary	Dr. Parvaiz 0304-4202038	No threat of flood and earthquake
4	BHU Kharper	NA	Primary	Dr. Sohail 0302-4228044	No threat of flood and earthquake

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S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
	RHC Joura	NA	Primary	Dr. Abdul Qadir 0302-6592065	No threat of flood and earthquake
4	BHU Rajowal	NA	Primary	Dr. Nadeem  0334-7575475	No threat of flood and earthquake
5	BHU Tara Garh	NA	Primary	Dr. Aitzaz 0314-7992214	No threat of flood and earthquake

6	BHU Mokal	NA	Primary	Dr. Tanveer 0322-6783347	No threat of flood and earthquake
7	Gandi Roopsingh	NA	Primary	Dr. Noman 0312-4256342	Threat of flood but not earthquake
8	BHU Akbar Abad	NA	Primary	Dr. Moin 0333-4547955	Threat of flood but not earthquake
9	Alpa Kalan	NA	Primary	Dr. Syed Muhammad Raza 0344-4000414	No threat of flood and earthquake
10	Sarai Mughal	NA	Primary	Dr. Rafiq Saqi 0302-4420324	Threat of flood but not earthquake

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary )	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)







## ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GMPS ULAN KAY	School	NA	NA	Javed Iqbal	3116824993
2	GMPS RANGAY WALA	School	NA	NA	Saba Sultan	3074263163
3	GGPS MUMBAYKAY	School	NA	NA	Yasmeen	3048802350
4	GGPS BHOJA	School	NA	NA	Sadaf Qasim	3078895194
5	GGES FATOOHI WALA	School	NA	NA	KASHFA RAZA	3054095754
6	GGPS LADHAY KI HITHAR	School	NA	NA	Naila Huma	3217513352
7	GGPS SHEIKH PURA NAU	School	NA	NA	NAJAM UN NISA	3034800185
8	GMPS BIKHI WIND	School	NA	NA	Kalsom Manzoor	3054698659
9	GGPS SHEIKH PURA KOHNA	School	NA	NA	Ruqia Attah	3006596307

S#	Name	Institute type (School, College)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
10	GMPS KAMAL PURA	School	NA	NA	Amina Jameel	3004570806
11	GMPS MAHI WALA	School	NA	NA	Ayisha Jafar	3237515769
12	GGES SEHJRA	School	NA	NA	Gulnaz Samina	3040949376
13	GGPS DHOOP SARI	School	NA	NA	Amina Shareef	3067491606
14	GGPS CHANT SEHJRA	School	NA	NA	Asia Rasheed	3094410457
15	GMPS MABBOO KAY	School	NA	NA	Bushra Nazeer	3018307461
16	GMPS HAKOO WALA	School	NA	NA	Sajida Perveen	3027251931
17	GGPS ROHYWAL	School	NA	NA	Tasneem Akhtar	3354723311
18	GGPS BALLAN WALA	School	NA	NA	M. Riaz	3406221474
19	GGPS NOORI WALA	School	NA	NA	SAMRA BATOOL	3030454431
20	GGPS BHADIAN USMAN	School	NA	NA	RAMZANA ALLAHDIN	3014619679
21	GGMPS SHAKE UMAD N	School	NA	NA	IRAM SHAFIQ	3004651511
22	GMPS HERDOBANBODLA	School	NA	NA	PARVEEN AKHTAR	3073295904

23	GGPS SHEIKHPURIAN	School	NA	NA	AZRA BANO	03044899822
24	GMPS TATTRA KAMAL	School	NA	NA	BILQEES BEGUM	03018011308
25	GGES SANDA KHANWA	School	NA	NA	SAIMA AROOJ	03076098454
26	GGES NAJABAT	School	NA	NA	MARIA YASEEN	03026808402
27	GGPS KATLOHI KALAN	School	NA	NA	Zareena Shaheen	3024574140
28	GGES Gaddoki	School	NA	NA	Farzano Kousar	03066839878
29	GGPS THEH PANWAN	School	NA	NA	Noor ul Nissa	03016835687
30	GGPS WADRA	School	NA	NA	FARKHANDA PARVEEN	3004333857
31	GGPS RATNAY WALA	School	NA	NA	Ghazia Mushtaq	3065450975
32	GGPS KUJIAN WALA	School	NA	NA	Shabana Kousar	3084049172
33	GGPS BURJ KHURD	School	NA	NA	Asia Rifat	312680009
34	GGES RAI KALAN	School	NA	NA	Uzma	3075261466
35	GGES ABRAHIM ABAD	School	NA	NA	TOQIR AZMAT	3042295207

36	GGPS CHACK BALLYANA	School	NA	NA	Shahida	3476088792
37	GGCMS BAGGY	School	NA	NA	AFIFA MUJAHID	3234895800
38	GGPS BAZEED PUR	School	NA	NA	SAIMA SHAHEEN	3009485374
39	GGPS RASOOL NAGER	School	NA	NA	SHAZIA PARVEEN	3034413639
40	GGPS KILCHA MADONA	School	NA	NA	SHAZIA YASEEN	3074118200
41	GGPS BASTI JUMMAY KHAN	School	NA	NA	NUSRAT SHEHZADI	3214953053
42	GGPS Basti Shamay Wali	School	NA	NA	Manzoor Bibi	0302-4848202
43	GGPS Kot Sunder Singh	School	NA	NA	Sughra Bibi	0300-6598443
44	GGMPS BHADIAN KHAN PUR	School	NA	NA	Tahira Tasleem	3066816971
45	GGES QAISER GARH	School	NA	NA	Zaitoon Fatima	3237976450
46	GGES BURJ KLAN	School	NA	NA	Shakila Kousar	3237535108
47	GMPS THATI USMAN	School	NA	NA	Nusrat Khushi	3070114740
48	GGES BADAR PUR	School	NA	NA	RUKHSANA BANOO	3445167473

49	GGPS AMREEK SINGH	School	NA	NA	ZAHIDA PARVEEN	3008831035
49	GGPS KALIAN	School	NA	NA	SHUBANA KOSAR	3004978257
50	GGES CARE COLONY	School	NA	NA	Samina Anjum	3074670249
51	GGPS SAEEDA ABAD	School	NA	NA	Samina M. Ali	3086800892
52	GGPS RANG PUR	School	NA	NA	Nomana Shabbir	3034504784
53	GGPS PEERO WALA	School	NA	NA	Nawal Rasheed	3064702374
54	GGPS LOGHER JUGHIAN	School	NA	NA	Asifa Khalid	3008817935
55	GGCMS PATTO KOHANA	School	NA	NA	Safora Anjum	3044851904
56	GMPS PATTO KHURD	School	NA	NA	Amara Arshad	3348035021
57	GGPS KHAREPAR HATHAR	School	NA	NA	SHAGUFTA	3064318835
57	GMPS GOHAR HITHAR	School	NA	NA	SAMIA BANO	3065964137
58	GGES CHABBAR	School	NA	NA	NAGINA AMIN	3226754434
59	GMPS MAHALAM KHURD	School	NA	NA	Shakeela yasmeeen	3067570322

60	GGPS Harcho Ki Hithar	School	NA	NA	Jabeen Asif Khan	0323-4859923
61	GGPS Chabbar	School	NA	NA	Sadaf Zahra	0305-4030331
62	GGES Fateh Muhammad Kalan	School	NA	NA	Farhat Yasmeen	0301-4228434
63	GGPS Fateh Muhammad Khurd	School	NA	NA	Amtal Shafique	0306-4903155
64	GGPS Basti Hakim Shah	School	NA	NA	Amtal Mateen	0306-2485221

## 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	Swat Chemical Industry	Ferozepur Road Bhalo Khara	X: 74.450532 Y:31.163807	Chemical	Atif	Low	Flood
2	Nasir Cold Storage	Ghanda Singh Road Kasur	X: 74.499283 Y:31.066671	Nil	Nasir	Low	Flood
3							
4							

5							
6							
7							
8							
9							

**DDMA (District Kasur)**

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DDMP 2020

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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
18							
19							
20							

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

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Birra Welfare Society Bangla Kambhoy Kasur	UC level	Bangla Kambhoy Kasur	General Welfare oblige for woman development	Dr. Yousaf Arain	0323- 8440589
2	Itthead Foundation Dhan Pat Road Kasur	UC level	Dhan Pat Road Kasur	General Welfare oblige for woman development	Mrs. Irshad Safdar	0321- 6573180
3	Good Thinker Organization Shahbaz Road Tehsial & District Kasur	UC level	Shahbaz Road Tehsial & District Kasur	Health	M. Waqas Abid	0322- 6812700
4	Khuram Welfare Society Village Khuram Hithar Kasur	UC level	Village Khuram Hithar Kasur	Health	Hafiz Ghafar	0333- 4178699
5	SEHR Foundation Mahlam Kalan Kasur	UC level	Mahlam Kalan Kasur	Health	Zain ul abaideen	0300- 4054049
6	Naveed Welfare society Kangan Pur Chunian	Town Kangan Pur	Kangan Pur Chunian	Health	Ashraf Shahid	03004165494
7	Karamat Human welfare society Seray Chheemba	UC/Local	Seray Chheemba Pattoki.	Health	Sayed Amanat Ali Shah.	0333- 4293490
8	Bismillah Welfare Society, Mohallah Dawani Marla Gharbi (K.R.K)	Tehsil Level	Mohallah Dawani Marla Gharbi (K.R.K)	Health	Malik M. Irshad	0300- 4210235
9						

10						
11						
12						
13						
14						
15						
16						

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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.
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

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

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Commissioner	Saif Anjum	042-99211003-4	042-99214322-334	0304-0920050
2	Regional Police Officer	Shahid Javeed	-	-	03004011380
3	DC, Kasur	Manzar javaid Ali	049-9250143 049- 9250067 Fax No. 049-9250162	049-9250140	0304-0920062
4	DPO , Kasur	Zahid Nawaz Marvat	049-9250137 Fax No. 049-9250172	049-9250195	0309-7771181 0345-6313334 0309-7771183
5	ADC (R)/ Focal Person for Disaster Kasur	Abid Bhati	049-9250099 Fax No. 049-9250270	049-9250099	0300-4239717
6	AC,Kasur	Madam Anum Zahid	049-9250157	049-2721523	0302/0336-9385043
7	AC, Chunian	Adnan Badar	0494-310055	-	0301-6969206
8	AC,Pattoki	Asif Ali Dogar	0494-424646	-	0300-6630010
9	AC, Kot Radha Kishan	Madam Nazia Mohil	0492-385091	-	0336-0450047
10	ADC (General), Kasur	Imran Shamas	049-9250218	-	0301-5553314
11	Tehsildar, Kasur	Jamal Bhutta	049-2724853	-	0300-8634488
12	Tehsildar,Pattoki	Haroon Raseed	049-4311916	-	0301-8674008
13	Tehsildar, Chunian	Mujahid Zia Butt	049-4424946	-	0309-7759623
16	Fire Bridge,Kasur	Sultan	049-2772501	-	0322-7771122
17	CEO,(Health), Kasur	Doctor Mubashir	049-9250063	-	0300-6594425
18	DO,(Health),Kasur	Doctor Laiquat	049-9250048	049-9250048	0300-6587744
19	MS DHQ Hospital, Kasur	NA	049-9250096	049-2764481	0300-6587744
20	RESCUE KASUR	Sultan	049-2772501	-	0322-7771122
22	XEN Irrigation, Kasur	Adan Zia	049-9250201-9250141 Fax No.9250059	-	0344-4120079
23	XEN Irrigation, Balloki	Amir Mumtaz	049-4610300 Fax No.9250059	049-4610300	0321-4117766

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
25	Tehsildar,Kot Radha Kishan	Ghulam Dastighir	049-2385206		0306-0611115 0300-4909311
27	DO Social Welfare, Kasur	Sohail Akhtar Ijaz	049-9250283	–	0300-4459578
28	CEO (Education), Kasur	Naheed Wasif	049-9250191	–	0304-8253696
29	DEO(Secondary),Kasur	Kasuir	049-9250116	–	0302-8461620
30	DEO(Elementary),Kasur	Sheikh Hasnat	049-9250113	–	0300-4240977
31	DEO(Elementary)Female, Kasur	Ayesha	049-9250040	–	0301-7687122
32	Deputy Director (Agriculture), Kasur	Muhammad Naveed	049-9250249	–	0300-6597138
33	DO (Livestock),Kasur	NA	049-9250126	–	0300-4567241
34	XEN,WAPDA,Kasur	Muhammad Jamshid	049-9250194 Fax No. 0499250158	049-9250085	0320-0521710
35	XEN , WAPDA ,Chunian	Muhammad Husnain	049-4310120	–	0320-0521730
37	DE Telephone, Kasue	Haji Zafar	049-2765657	049-2765650	0333-6656670
38	District Food Controller, Kasur	Zamin	049-9250235	049-9250168	0336-2624444
39	CO,MC Kasur	Shahzad Iqbal	049-9250206	–	0321-4446369
40	CO, MC Chunian	Malik Ibrar	049-4310092	049-4890056	0321-4422881
41	DO Civil Defence, Kasur	Saif Sahab	049-9250068	–	0301-6839926
41	CO, MC Pattoki	Gulshan Noreen	049-4424447	0049-4420050	0321-4944907
43	MET (Weather Department)	Mr. Muhammad Ajmal Shad	042-99205367 to 72	–	–
44	Commissioner Indus Waters Lahore	Syed Mehr Ali Shah	042-99212789-90	–	–
45	Director Operation PDMA Lahore	Nisar Ahmad Sani	042-99204405	–	0343-9209201
46	DD Colleges Kasur	Abdul Ghafar Dogar	049-9239091-2771749	–	0300-4105138
47	SNA Kasur	Zubair Anjum Khan	049-2724931	–	0300-7392931 03368600725
48	Incharge Child Protection	Zartab Khan	–	–	03088830066
49	NADRA Station B	Babar Sahab	049-2771020	–	0300-6539716
50	DDLG	M.Iqbal	049-9250139	–	0300-8894411



51	DD Social Welfare Kasur	Sohail Akhtar Ijaz	-	-	0333-4146776
52	CO,MC Raja Jang	Arif Ali	-	-	0300-4614565
53	AM,AX CAMP	Bilal Javeed	049-2724754	-	0332-4321740

## ANNEX VIII: LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Zohaib Rahat Hussain s/o Rahat Hussain	35102-3841095-1	Kasur	0324-4486522	NA	NA
2	Muhammad Sheraz s/o Muhammad Sadiq	35102-5792094-1	Kasur	0309-7426904	NA	NA
3	Muzaffar Ali s/o Asghar Ali	35102-7658798-1	Kasur	0307-0493699	NA	NA
4	Rafi Boota s/o Boota Masih	35102-3047032-9	Kasur	0300-6574763	NA	NA
5	Muhammad Rafique s/o Muhammad Habib	35102-7789362-1	Kasur	03006583057	NA	NA
6	Abid Hussain s/o Muhammad Rafique	35102-0661737-7	Kasur	0305-4233489	NA	NA
7	Ghulam Mustafa s/o Nazir Ahmad	35102-6410836-3	Kasur	0305-9468413	NA	NA
8	Faqir Hussain s/o Muhammad Sharif	35102-0632066-9	Kasur	0301-4317162	NA	NA
9	Muhammad Ali s/o Rana Saleem	35102.7874709.7	Kasur	0309-0759072	NA	NA
10	Muhammad Saleem Butt s/o M. Saddique	35102-2627009-7	Kasur	0323-7507283	NA	NA
11	Muhammad Rafique s/o Muhammad Amin	35102-5925754-3	Kasur	0303-5970834	NA	NA
12	Sharafat Ali s/o Muhammad Sharif	35102-0143461-5	Kasur	0320-4850194	NA	NA
13	Muhammad Rafique s/o Farzand Ali	35102-0573462-7	Kasur	0305-4626572	NA	NA
14	Faisal Rehman s/o Muhammad Hanif	35102-0143461-5	Kasur	0303-9802385	NA	NA
15	Muhammad Shabban s/o Muhammad Din	35102-5973635-5	Kasur	0301-432900	NA	NA
16	Muhammad Akbar s/o	35102-0687194-9	Kasur	0320-6579668	NA	NA



	Muhammad Ashraf					
17	Sami Ullah s/o Ghulam Haider	35102-2863924-3	Kasur	0306-4273823	NA	NA
18	Adil Manzoor s/o Manzoor Hussain	35102-2863924-3	Kasur	03228685213	NA	NA
19	Zeeshan Wahid Bhatti s/o Abdul Wahid Bhatt	35102-6396103-7	Kasur	0307-2918621	NA	NA
20	Saeed Ahmad s/o Ahmad Din	35102-0598003-9	Kasur	0300-4658520	NA	NA
21	Muhammad Ibrar s/o Muhammad Ashraf	35102-6294210-7	Kasur	0300-4655102	NA	NA
22	Muhammad Imran s/o Muhammad Hanif	35102-3741599-7	Kasur	0323-049811	NA	NA
23	Muhammad Rizwan s/o Abdul Ghafoor	35102-5856402-9	Kasur	03047672376	NA	NA
24	Muhammad Bilal s/o Muhammad Ramzan	35102-6775567-7	Kasur	03111234949	NA	NA
25	Zahir Ud Din Babar s/o Bashir Ahmad	34101-6544422-1	Kasur	0301-4154021	NA	NA
26	Muhammad Imran s/o Muhammad Akbar	35101-1969124-1	Chunian	0300-2606565	NA	NA
27	Shoaib Ahmad s/o Saghir Ahmad	35101-3362685-7	Chunian	0309-4987346	NA	NA
28	Muhammad Younis Bambul s/o M Yaqub	35102-5119440-7	Kasur	0324-4216132	NA	NA
29	Waseem Ali s/o Waris Ali	35102-8474826-3	Kasur	0307-6802232	NA	NA
30	Haji Muhammad Yousaf s/o Faqir Hussain	35102-4252508-9	Kasur	0301-7986179	NA	NA
31	Mirza Intizar Baige s/o Muhammad Ashraf	35102-0598143-9	Kasur	0300-2828886	NA	NA

32	M.Afzal Nasir Bhatti	NA	NA	0301-8449049	NA	NA
32	M. Aslam	NA	NA	0300-6586815	NA	NA
33	Haji M. Ashraf	NA	NA	0322-4908460	NA	NA
34	M. Azam	NA	NA	0300-6583048	NA	NA
35	Dr.Yousaf Arain	NA	NA	0323-8440589	NA	NA
36	Mrs. Irshad Safdar	NA	NA	0321-6573180	NA	NA
37	M. Waqas Abid	NA	NA	0322-6812700	NA	NA
38	Asghar ali	NA	NA	301-6833075	NA	NA
39	M. Saleem Mehar	NA	NA	0300-6595449	NA	NA
40	Abdul Rehman Shah	NA	NA	0300-6579735	NA	NA
41	Haji M. Nawz	NA	NA	049-2761578	NA	NA
42	Ghulam Rasool	NA	NA	0304-7420310	NA	NA
43	Dr.Masood Iqbal sajid	NA	NA	0321-6592882	NA	NA
44	M. Azam	NA	NA	0300-6583048	NA	NA



45	Zain ul abaideen	NA	NA	0300-4054095	NA	NA
46	M. Ishaq	NA	NA	049-2762682	NA	NA
47	Rana M. Ishraf Sher Ali Khokhar	NA	NA	0301-4571202 0300-6582786	NA	NA
48	M. Yousaf Bhatti	NA	NA	0307-4121816	NA	NA
49	M. Sharif	NA	NA	0321-7074108	NA	NA
50	Syed Abaid-ullah Shah	NA	NA	0300-6590486	NA	NA
52	Muhammad Maqsood Sarwar	NA	NA	03006579096	NA	NA
53	Muhammad Saddique	NA	NA	03319844183	NA	NA
54	Shoukat Javed	NA	NA	03016612262	NA	NA
55	Jamil Ahmed	NA	NA	03006545633	NA	NA
56	Muhammad Ahmed	NA	NA	03014544467	NA	NA
57	Muhammad Amin Tahir	NA	NA	03006573070	NA	NA
58	Hafiz Kashif	NA	NA	03064797224	NA	NA
59	Muhammad Imran	NA	NA	03016740054	NA	NA
60	Zeshan Arif	NA	NA	03040030963	NA	NA
61	Abdur Rauf	NA	NA	03094811082	NA	NA
62	Javed Iqbal	NA	NA	03224696800	NA	NA
63	M Ilyas Anjum	NA	NA	03074502579	NA	NA
64	M Aslam	NA	NA	0307-4055323	NA	NA
65	Shoukat Ali	NA	NA	0333-4080511	NA	NA
66	M Ashraf	NA	NA	03414026528	NA	NA

67	Sajid Husain	NA	NA	03008485611	NA	NA
68	Zahad Ali Shah	NA	NA	03334200896	NA	NA
69	Numan Kashif shah	NA	NA	03006200930	NA	NA
70	M Mazahar usman	NA	NA	03008485611	NA	NA
71	Awais Ahmed	NA	NA	03097146225	NA	NA
72	Ahmed Kamal	NA	NA	03126574587	NA	NA

## ANNEX IX: POLITICAL CONSTITUENCIES

NATIONAL CONTITUENCIES				
CONSTITUENCY NO.	NAME OF MNAs	PARTY	ADDRESS	CONTACT
NA-137	Saad Waseem Shaikh	PML(N)	Circular Road, Outside Mori Gate, Kasur C-407, Parliament Lodges, Islamabad	<b>0323-2227999</b> <b>0306-4158000</b>
NA-138	Rasheed Ahmad Khan	PML(N)	Feteh Pur P/O Dost Pura , Teh & Distt. Kasur 106-E Block, Parliament Lodges, Islamabad.	<b>0300-6599700</b>
NA-139	Rana Muhammad Ishaq Khan	PML(N)	Gulzar Jageer, P/O Khas, Tehsil Pattoki District Kasur 312-G, Parliament Lodges, Islamabad.	<b>0333-4511666</b>
NA-140	Sardar Talib Naki	PTI	NA	<b>03444442323</b> <b>03008465577</b>

### PROVINCIAL CONSTITUENCIES

CONSTITUENCY NO.	NAME OF MPAs	PARTY	ADDRESS	CONTACT
PP-177	Hashim Dogar	PTI	NA	0300-8389180 0321-3544260
PP-179	Peer Mukhtar Ahmad	PML (N)	NA	0300-9437936
PP-174	Muhammad Naeem Safdar Ansari	PML (N)	(a) Mohalla Wali Street, Syed All Ahmad Shah Colony, District Kasur (b) Madni Chowk, Munir Shaheed Colony, Shahbaz Khan Road, Kasur	0321-4451313
PP-175	Malik Ahmad Saeed Khan	PML (N)	Village Fateh Pur, Tehsil & District Kasur	0300-4004228
PP-176	Malik Muhammad Ahmad Khan	PML (N)	Khai Hithar P.O. Same Tehsil & District Kasur	0301-4404545
PP-182	CH M. Iliyas Khan	PML(N)	NA	0300-8493838 0300-0732323
PP-178	Sheikh Allauddin	PML (N)	(a) 19-N, Gulberg-II, Lahore. (b) Toyota Ravi, 37 Main Jail Road, Lahore. (c) Kot Sandras Gilanwala, Tehsil Chunian, District Kasur	042-37422945 0333-4197718
PP-180	Sardar Muhammad Asif Nakai	PML(N)	(a) 470-E, Iqbal Park, Walton Road, Lahore Cantt (b) Wan Adhan Kalan, Pattoki, District Kasur	042-99214759 0344-5500000
PP-181	Rana Muhammad Iqbal Khan	PML (N)	(a) Rana Phool House, Lamby Jagir, Tehsil Pattoki District Kasur (b) 3-Upper Mall, Lahore.	042-99212761 0333-4511777

## ANNEX X: LOCAL GOVERNMENT

### District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Mobile Number
1	District Chairman	Layyah		
2	District Vice Chairman			
3	Tehsil Chairman			
4	Tehsil Vice Chairman			
5	Tehsil Chairman	Karor		
6	Tehsil Vice Chairman			
7	Tehsil Chairman	Fatehpur		
8	Tehsil Vice Chairman			
9	Tehsil Chairman	Chowk Azam		
10	Tehsil Vice Chairman			
11	Tehsil Chairman	Choubara		
12	Tehsil Vice Chairman			

### UC Level

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
1						
2						
3						
4						

5						
6						

64

62

7						
8						

9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

22						
23						

65

24						
25						
26						
27						

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						

38						
39						
40						

66  
64

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67  
65

**P1: House Damage Assessment**

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

S#
Name
Father Name
CNIC
Address

**P2:**

S#
Name of deceased
Father's name
Address
Domicile

**P3:**

S#
Name of injured
Father's name
Address

**ANNEX XI: DATA COLLECTION PERFORMAS**

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

Revenue Estate
Union Council
Tehsil
Partially/Completely
Katcha/Pakka
%age of Damage
Contact No.
GPS Coordinates
Picture Taken (Y/N)

**Deceased Person Reporting Performa**

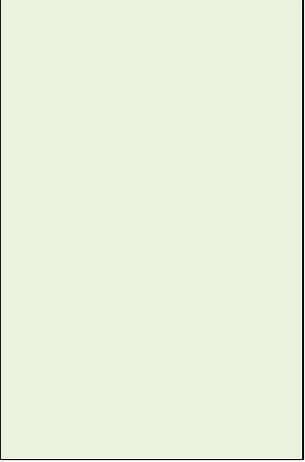
District: \_\_\_\_\_

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, Desgination and Contact)

**Injured Person Reporting Performa**

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

Domicile
Gender
Age
CNIC
Cause of injury
Date of injury
Injury Type (Permanent or Temporary)
Compensation Paid or not



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

Compensation Paid or not

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



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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.
----	----------------	-------------	------	-------	--------	-----------------	------------------------------------	--------------------------	--------------------------------	--------------------------------

**P5: Crop Damages**

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

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

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

**P6: Relief Distribution Tracking Performa**

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

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

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

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

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

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

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



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

67<sup>69</sup>**P8: Relief camp registration Performa**

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

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

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

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

**P9: NGOs registration Performa**

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

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

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

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

**P10: Control Room**

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

District: \_\_\_\_\_ Focal Person: \_\_\_\_\_ Date: \_\_\_\_\_

S#	Location of control room	Shift I Incharge Name and Contact	Shift II Incharge Name and Contact	Shift III Incharge Name and Contact	Phone Numbers	Fax Numbers	E- Mail Address
6870							

## ANNEX XII: CAMP MANAGEMENT SOPS

- Camps would be established in areas accessible by metaled 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.

<b>Land</b>	<b>3.0-4.5 square meter per person</b>
<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>
1	Kalabagh H/Works Division	Jinnah Barrage	25,080
<b>Total in feet.</b>			<b>25,080</b>
<b>Total in Miles.</b>			<b>4.75</b>
<b>FAISALABAD DIVISION</b>			
1	Khanki Division	Left Marginal Bund	21,000
2	-do-	Right Marginal Bund	29,000
3	Jhang Division	Jhang Flood Protection Bund	43,875
4	Qadirabad Barrage Division	Left Marginal Bund	20,000
5	-do-	Right Marginal Bund	20,000
<b>Total in feet.</b>			<b>133,875</b>
<b>Total in Miles.</b>			<b>25.36</b>
<b>BAHAWALPUR ZONE</b>			
1	Punjad Head works Division	Right Marginal Bund	15,000
2	-do-	Left Marginal Bund	15,000
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	10,000
<b>Total in feet.</b>			<b>55,000</b>
1	Trimmu Division -	Right Marginal Bund	20,000
2	do-	Left Marginal Bund	20,000
3	Sulemanki Division	Left Marginal Bund	10,000
4	-do-	Right Marginal Bund	10,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	10,000
6	-do-	Akbar Flood Bund	10,000
<b>Total in feet.</b>			<b>80,000</b>
<b>Total in Miles.</b>			<b>15.15</b>
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khangarh Flood Bund	5,000
7	-do-	Khanwah Flood Bund	5,000
8	Jampur Construction Division	Jampur Flood Bund	5,000
9	-do-	Rojhan Flood Bund	20,000
<b>Total in feet.</b>			<b>1,35,000</b>
<b>Total in miles</b>			<b>25.57</b>

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

**INFORMATION REGARDING FLOOD BUND CATEGORY B**

#	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	Designed	Low	Flood Limits in Lac Cs.			Exp. High
	Site	Capacity		Med:	High	Very High	
		(lac Cs)					
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	10	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
CHENAB	Marala	11	1	1.5	2	4	6
	Khanki	8	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	6.45	1.5	2	3	4.5	6
	Punjnad	7	1.5	2	3	4.5	6
RAVI	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
SUTLEJ	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	2
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.252.25
	Islam	3	0.5	0.8	1.2	1.75	2.25
	Mailsi Syphon	4	0.75	1.1	1.5	2.25	3

7375

## 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 fall or avalanches, surface collapses, expansive soils and debris or mud flow.