

DISTRICT DISASTER MANAGEMENT PLAN 2018

Division: SAHIWAL

District: PAKPATTAN



Flood Relief Camp



Incident of House collapse Pakpattan 2015



Floods in 2014



Gas Cylinder Blast & Fire at Pakpattan April 2016

Prepared by:

Approved by:



TABLE OF CONTENTS

Executive Summary	Error! Bookmark not defined.
Aim and Objectives	2
District Profile	3
Coordination Mechanism	9
Risk Analysis	19
Mitigation Strategy	25
Early Warning	28
Rescue Strategy	31
Humanitarian Assistance	32
Annex I: Identified sites for displaced persons	33
Annex II: List of hazard prone villages/ Revenue Estate (NAMES REquired)	35
Annex III: List of Health Facilities and their vulnerability to Hazards	37
Annex IV: List of vulnerable Educational institutions	38
Annex V: List of Industries with their risk level	38
Annex VI: List of NGO working in the District	40
Annex VII: Contact list of main stakeholders / departments	44
Annex VIII: List of volunteers	46
Annex IX: Political Constituencies	48
Annex X: Local Government	49
Annex XI: Data Collection Performas	52
Annex XII: Camp Management SOPs	55
Annex XIII: Flood Bunds	56
Annex XIV: River Discharge Rates	59
Annex XV: List of Basic Terms	60

XX

Estimated number of people at risk of **hill torrent** in 2016



of total population

Risk: High

XX

Estimated number of people at risk of Hill Torrent in 2016



of total population

Risk: Medium

XX

Estimated number of people at risk of earthquake in 2016



of total population

Risk: Low

XX

Estimated number of people at risk of epidemic in 2016



of total population

Risk: Medium

The district is bounded to the northwest by Sahiwal District, to the north by Okara District, to the south by the Sutlej River and Bahawalnagar District, and to the southwest by Vehari District. There are 02 Tehsils (Pakpattan and Arifwala).

The district is linked with Okara, Sahiwal and Bahawalnagar districts through metalled roads. The district Pakpattan is linked with Kasur and Vehari districts through railway network.

The source of livelihood in the district is mainly Cotton Ginning & Pressing, Fertilizer, Flour Mills, Oil Mills, Poultry Feed, Rice Mills, Sugar and Textile Weaving Wheat, Cotton, Sugarcane, Maize and Rice. The Pakpattan District is known for the fertility of its soil and most of the population of Pakpattan district makes a living on agriculture.

AIM AND OBJECTIVES

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

The main objectives of the plan include:

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

DISTRICT PROFILE

Socio-Economic Indicators (Average)

S.No.	Particulars	Numbers
1.	Population	1,714,479
2.	No. of Tehsils	2
3.	No. of UCs	54
4.	No. of Revenue Estates	16
5.	Population Density (people per km ²)	644
6.	Family Size	6
7.	Pop Growth Rate	2.90%
8.	PCI	
9.	District GDP/Annual Income	
10.	Poverty Rate	50
11.	Patient/Doctor Ratio	7,000:1
12.	AMR	
13.	IMR	50
14.	MMR	171
15.	Literacy Rate	45%
16.	Global Acute Malnutrition (GAM) rate	
17.	Severe Acute Malnutrition (SAM) rate	5
18.	Percentage of population having access to clean drinking water	35
19.	Annual Crime	5730

Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
1,714,479	461598	480457	377589	393020	1815

Source/Note: Click here to enter text.

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
199672	132922	66750

Source/Note:

Area (in acres)

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
2728	611545 Acres		

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
45%	10%	5%	20%	10%	30%	15%

Source/Note: Click here to enter text.

Government Schools

		Number of Functional Schools	Enrollment Rate
Total/ Overall		899	Total Enrollment in the District= 200113
Boys	Primary	348	60985
	Middle	69	5835
	High/Higher	60	43675
Girls	Primary	303	55286
	Middle	84	9293
	High/Higher	35	25039
Co-Schools	Primary	0	
	Middle	0	
	High	0	

Private Schools

		Number of Functional Schools	Enrollment Rate
Total/ Overall		586	Total Enrollment in the District= 90406
Boys	Primary	0	
	Middle	0	
	High/Higher	134	2218
Girls	Primary	0	
	Middle	0	
	High/Higher	37	1596
Co-Schools	Primary	03	73219
	Middle	412	13373
	High	0	

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	04	01	0	02	02	09

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	59	2	9	10	80
Annual OPDs	115728	53121	0	0	168849
No of beds	197	185	0	0	482
Doctors Available	43	25	0	0	68
Paramedical staff	215	273	0	0	488
Ambulances available	11	3	0	0	13
Mobile Medical Units					

Livestock: Small Animals (goats, sheep etc.) **381,477**

Big Animals (cows, buffalos, camel etc) **913,574**

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

Agriculture	Livestock	Poultry	Fish Farming	Services (Public & Pvt)	Business	Expatriates	Industrial Labor	Skilled Labor	Unskilled Daily Labor	General Labor
55%	10%		01%							

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	1988 (500000 Cusecs)							
2	1995 (302000 Cusecs)							
3	2008 (102000 Cusecs)							

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	Okara, Sahiwal, Bahawalnagar,
Topographical Features	
Weather/Climate pattern	Rainy season / Temperature 32-47 centigrade / heat waves occurred during the month May, June / Snowfall NIL / weather Winter, Summer, Spring, Autumn
Major Rivers	Sutlej River and across through Suleimanki Headworks at a distance of 20 KM east Haveli Lakha town. Exceptionally High Flood passed through Suleimanki Headworks during 1988 & 1995 Highest Flood level 1988 i.e. 572.50. A length of River Sutlej in District Kasur 60-KM, District Okara 40-KM, District Pakpattan 35-KM, District Bahawalnagar 80-KM.
Major Nullahs / Streams	

Motorway/Highway	Dehli Multan road, Pakpattan to Sahiwal road, Arifwala to Sahiwal road Vulnerable points of motorway/highway
Railways	Between Vehari Kasur Section Vulnerable points of Railway
Geological features	Plane land / Tropical Area

Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
There is no Dam in District Pakpattan		X: Y:				

Major Embankments/Bunds

Name of Embankment	Length (km)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/vulnerable Points	GPS Location of Critical/ Vulnerable Points	Remarks
Ferozpur Flood Protection Bund	8.87	Ferozpur / Pakpattan	Ferozpur / Pakpattan	-	Latitude: Longitude	Satisfactory
New Mari Amb Flood Protection Bund	4.89	Mari Amb / Pakpattan	Mari Amb / Pakpattan	-	Latitude: Longitude:	Satisfactory
Jamlera Flood Protection Bund	12.65	Jamlera / Arifwala	Jamlera / Arifwala	-	Latitude: Longitude:	Satisfactory
Noora Rath Bund	7.5 KM 50% in District Pakpattan 50% in District Bahawalnagar	Noora Rath/Arifwala	Noora Rath/Arifwala	-	Latitude: Longitude:	Satisfactory

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		
There is no Breaching Section in the District Pakpattan							

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
Pakpattan	132KVA	X: Y:			X: Y:
Noor Pur	132KVA	X: Y:			X: Y:
Bonga Hayat	132KVA	X: Y:			X: Y:

Airport / Landing Strips

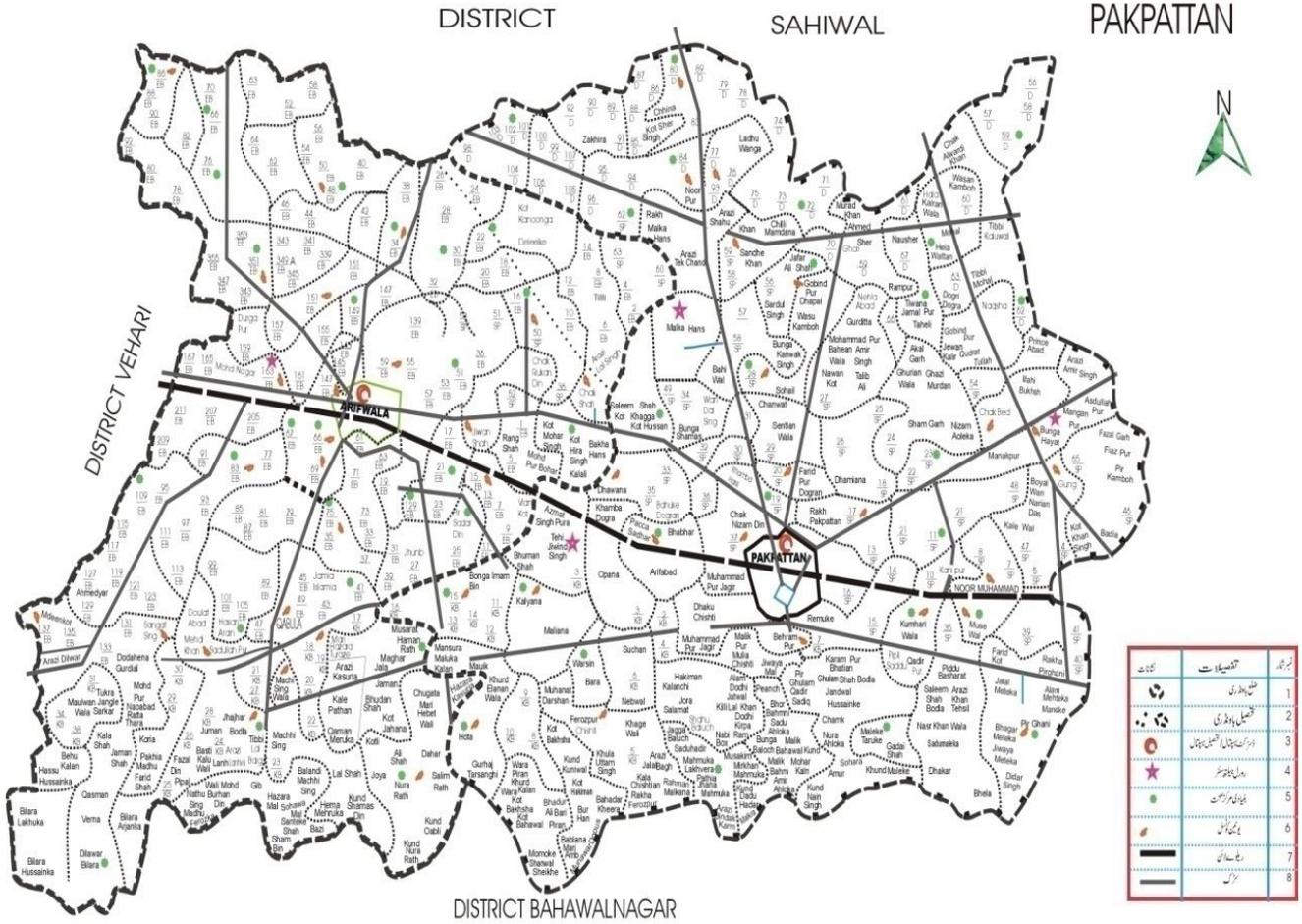
Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
No Airport in District Pakpattan		X: Y:			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:

Govt. storage facilities/warehouses in the district

Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
Wheat Storage Godown Arifwala	6000 Ton	X: Y:			X: Y:
Wheat Storage Godown Ghala Mandi	10000 Ton	X: Y:			X: Y:
Wheat Storage Godown Farid Nagar	2000 Ton				
Wheat Storage Godown NoorPur	5600 Ton				

District baseline/reference map

DISTRICT
PAKPATTAN



Source:

COORDINATION MECHANISM

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

District flood control has been established in the Office of District coordination Officer, Pakpattan with **telephone number 0457-373396**, it remains operational round the clock and one official and naib qasid remain present round the clock. All flood situation reports are received in this control room and conveyed to the concerned Assistant Commissioner /Sub Divisional Control Officer. The daily situation report exchanged on telephone and in case of emergency, police wireless system is also used.

FLOOD WARNING SYSTEM

Sr. No.	Flood warning center	Source of Information
01	District Flood Control Room DO(C) Office Pakpattan 0457-373396	<ol style="list-style-type: none"> 1. Met. Department Lahore (042-99200139,99201238,99201244,99205159,99205160) 2. Divisional irrigation office at (040-9200222) 3. Police wireless control Distt. Pakpattan (0457-352795) 4. Sector incharges (NT's / RO's) 5. Patwaris 6. General Public
02	District Irrigation Office Pakpattan Faisal Mushtaq EX.EN. Sulemanki (0300-7935754)	<ol style="list-style-type: none"> 1. Masoud Shah SDO Pakpattan Sub Division (0344-6060601)

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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

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

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

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

Checklist for Revenue Department:

- Survey of entire District (Preparation of Village level information by Patwari)
- Identification of Low lying, medium and high: vulnerability levels with flood level
- Liaison of Patwari with Numberdars of their respective villages
- Contacts of all revenue staff posted near river belts and their output in floodprone areas
- List of Numberdars with their contacts, volunteer from low lying settlements with contact numbers
- Prepare list of vulnerable villages and make an estimate of likely affected population in such villages in the event of flood
- 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

Municipal Committees (MCs)

- Municipal Committees (MCs) 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.
- Municipal Committees (MCs) will provide assistance to the District Administration for setting up and management of relief camps/ operations.
- MCs are responsible for provision & restoration of water and sanitation facilities in their municipalities besides disposal of waste or rain water/sewerage.
- MCs are equipped with trucks, water bowsers, tractors, dewatering sets, bulldozers, loaders and dump trucks. All of these equipment are utilized to restore proper sanitary facilities, ensure the delivery of clean water and remove debris or excess water.
- MCs sanitary workers can be employed for cleaning relief camps, or other such areas which has been affected by any disaster.

- MCs employ de-watering sets to remove excess water. All MCs are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The MC maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- MC 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 MC 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 MCs 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 Defence, 1122, MCs 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 MCs.
- On receipt of a flood warning, immediate warning will be conveyed to all the concerned officers. Immediate action will be taken in each sector / sub sector for evacuation of the population from risk prone areas to safer places or to Relief Camps. An Assistant Commissioner will ensure that announcements are made through loudspeakers of the mosques utilizing the services of the Revenue department. Each Patwari will inform the Numbardar, Headmaster of the School, Imam Masjid and councillors to make announcements etc.
- The tactical operations would be headed by the Additional District Collector (ADC). The ADC would be responsible for coordinating and supervising the disaster control and relief measures in the district.
- Provincial government had notified the following composition of DDMA's for whole of the province:
 - i. **Deputy Commissioner (Chairperson)**
 - ii. District Police Officer
 - iii. Additional District Collector (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. ADC (G)
 - viii. ADC (F&P)
 - ix. CEO (DHA)

- x. CEO (DEA)
- xi. SP Special Branch
- xii. XEN Irrigation / Public Health
- xiii. District officer Civil Defense
- xiv. Chairman of Municipal Committees
- xv. All CEOs of Municipal Committees in District
- xvi. District Emergency Officer, Rescue 1122 (Secretary)
- xvii. Representative of Red Crescent
- xviii. Such other District level Officers to be appointed by District Administration

- District Administration 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 up stream in case of a flood.
- The District Administration would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Administrations will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
- CEO (DHA) 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.
- DD (Agriculture) and AD Livestock would arrange fodder and feed supplement for livestock and animals displaced.
- District Regional Transport Authorities (DRTA) in all 36 districts of Punjab are managed by Secretaries who would coordinate with local transporters to arrange for arranging transport required for evacuation of people from affected areas. In case of shortfall in transport in a particular district, the adjoining district would mobilize the transporters in his district to assist with the evacuation of people.

Role of Rescue 1122 in districts during disaster

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

Pre-disaster Check list for DDMA

- Meeting of DDMA held
- Identification of vulnerable areas
- Identification of Safe places
- Preparation of contingency plan
- Bunds and encroachments visited
- Sites identified for relief camps Evacuation routes/plan

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

Disaster Emergency Control Room (functions and responsibilities)

District Flood Control has been established in the Office of Deputy Commissioner, Pakpattan with telephone No.040-9200078, it remains operational round the clock and one official and Naib Qasid remain present round the clock. All flood situation reports are received in this control room and conveyed to the concerned Assistant Commissioner / Sub Divisional Control Officer. The daily situation reports are exchanged on telephone and in case of emergency, police wireless system is also used.

2.3 FLOOD WARNING SYSTEM

Sr. No Flood Warning Center Source of Information

- 1 District Flood Control Room ADC(G) Office, Pakpattan (0457-373396)
1. Met. Dept. Lahore (042-99200139, 99201238, 99201244, 99205159, 99205160)
2. Divisional Irrigation office at (040-9200222)
3. Police Wireless Control Distt. Pakpattan (0457-352795)
4. Sector Incharges
5. Patwaris
6. General Public
7. District Irrigation Office Pakpattan
Faisal Mushtaq EX.EN. Sulemanki (0300-7935754)
Masoud Shah SDO Pakpattan Sub Division (0344-6060601)

Checklist for Control Room:

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

Checklist for Relief Camp Incharge:

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

Role of Health Department

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

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

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

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

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

Civil-Military Coordination Mechanism

Military Assistance is solicited formely through Home Department according to the required emergency situations. Past experience reveals that military is requested to come in aid of civil administration during elections and Muharram Ahuras. During election each of the polling stations is provided military personel to ensure security of polling material and election staff. Quich Re-action (QRF) are formed to respond to any untoward situation and mini Head quarters are establshied of central locations. Logistics like POL, fire word, vehicles, telecommunication alongwith bording & lodging are provided to the military contigents. During Muharram, military is usually kept at certains vuluerable points and called in to the field only if some untoward incident takes place.

However, no such untoward incidents has so far been reported in the past few years in Pakpattan.

Volunteer Network

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

According to the list of NGOs working under social welfare in the district and philanthropists, the volunteers help the district Govt. and relevant department play their own role in any emergency but due to their limited resources they need community's assistance in this way. NGOs /philanthropists/volunteers mobilize the community resource and develop relief centers to collect relief items as per need and deliver/supply where needed.

RISK ANALYSIS

1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	2	2	7
Urban Flooding	1	2	5
Flash Floods	1	1	1
Hill Torrent	0	0	0
Glacial Lake Outburst Flood (GLOF)	0	0	0
Landslide	1	1	1
Tornado	0	0	0
Earthquake	2	1	2
Drought	0	0	0
Epidemic	2	1	2
Fire Incidents	3	2	6
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	3	3	9
Environmental Hazards (industrial accidents, severe pollution etc.)	3	3	9

Risk = Impact x Likelihood

Low : 1-7

Medium : 8-14

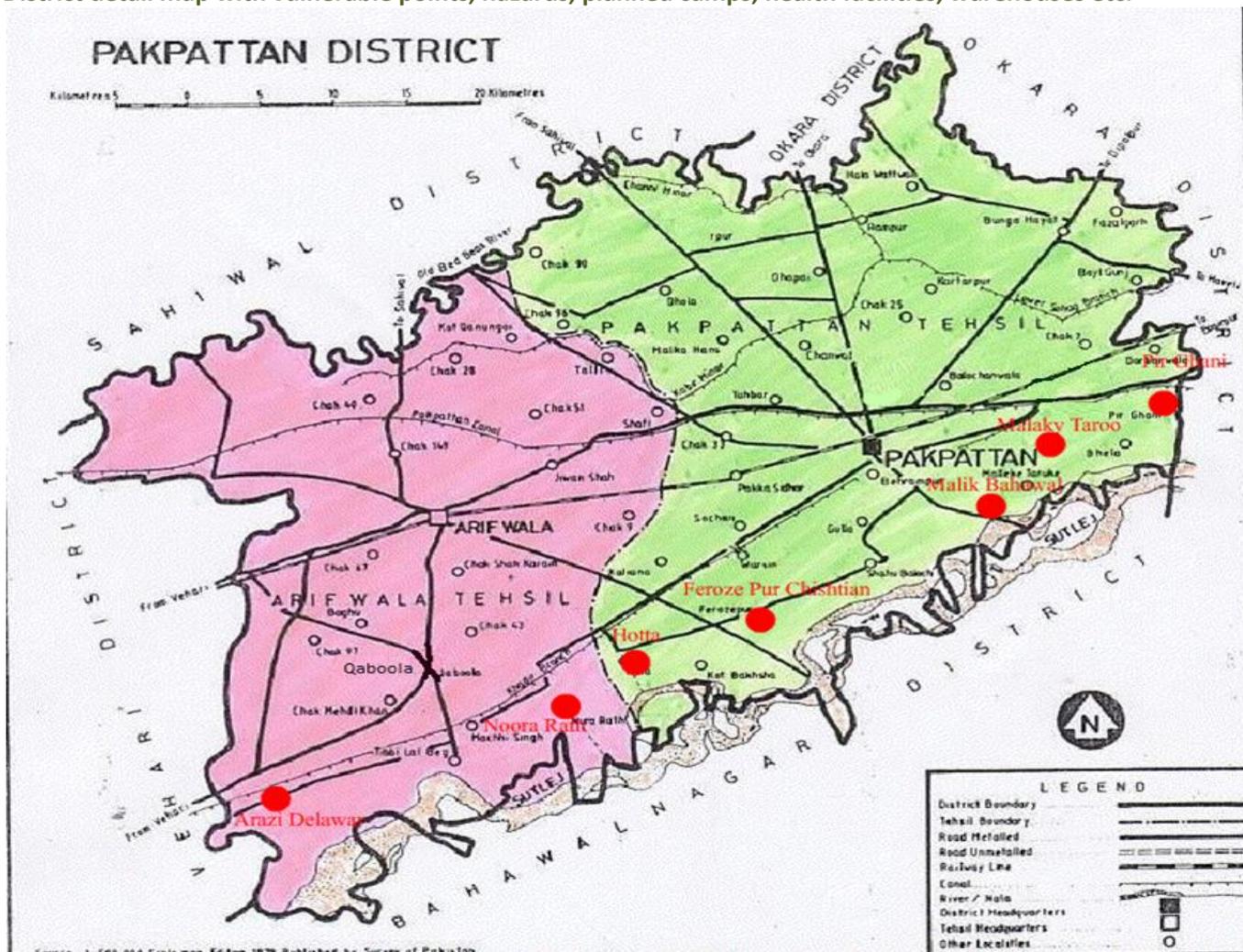
High : 15-25

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*

The District Pakpattan is surrounded by two rivers, i.e. River Satluj and River Khushak Bayas. As there is no water in Khushak Bayas, it is not vulnerable in the context of flood. The River Satluj enters the district Pakpattan from the east side and passes through Tehsil Pakpattan and Arifwala from its southern boundary, covering an area of 75-Km approximately. There is a history of floods of the Satluj river. In 1955, a very high flood was recorded as 597000 Cs. A huge population, area, and Government infrastructure were damaged in Pakpattan and Arifwala. Similarly, in 1988 & 1995, the River Satluj with its discharge of 500000 Cs & 302000 respectively at Headworks Sulemanki badly affected various villages and caused heavy damages to human, animal lives, and crops.

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



Source:

3. Response & Operational Capacity

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

The District Pakpattan has got fairly good response capacities both on the on the part of government and its NGO partners. The District has got to big public hospitals and a number of private health facilities at its headquarter. The urban in fracture which is fairly planned and specious cope with any likely director both nature or imposed by some unwanted human intervention. The district emergency set up is also fairly well equipped and trained to respond promptly and accurately. Mock exercises are also part of usual training and keep the emergency response in proper shape. Emerging industrial set up may pose a threat to the calm and peaceful city headquarter but staff measures are being ensured by the district administration and its counterpart intelligence set up.

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	6	6	0	1
OBM	6	6	0	1
De-watering sets				
Navigators				
GIS devices				
Life Jackets	107	107	0	93
Life Ring	32	32	0	20
Life Lines	2	2	0	15
Scuba diving suit with complete accessories	2	0	2	5
First Aid Kits	10	10	0	14
Rescue Bag				
Safety Harnesses	4	4	0	6
Ambulances	4	4	0	4
Fire Brigade	2	2	0	0
Water Tanks / Bouzers	1	1	0	0
Extendable Ladders	3	3	0	0
Hydraulic Cutter	1	1	0	0
Sonar Rader				
Jumping Sheet	1	1	0	0
Dumpers				
Excavators				
Cranes				
Bulldozer				
Boat Carrier/Trolleys				
Pickups/Jeeps/4x4 vehicles/Mini Trucks				
Searchlight	5	5	0	10
Tent	500	500	0	0
Mosquito Net	750	750	0	0
Plastic Mat	748	748	0	0
Blanket	0	0	0	0
Any other main relief/rescue equipment	0	0	0	0
Generator Sets	01	01	0	07
Gas-Cutters	0	0	0	0
Sonar Radars	0	0	0	0
Scuba Diving Set	0	0	0	0
Navigator/GPS Tracker	0	0	0	0
Hydraulic Cutter	1	1	0	0
Floating Rope	0	0	0	0

5.Gaps and Constraints

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

One of the outputs of the PCIIP was to develop a profile for each of the program cities that provided a detailed existing situation identifying gaps, wherever possible. The profile was to focus on providing sectoral information services of Water, Sanitation, Solid Waste Management and Urban Transport for the City.

Due to the budgetary constraints the coverage and quality of municipal service delivery is affected. The major source of receipts of the municipalities is the fiscal transfers from the provincial government of their share in the provincial consolidated fund based on the PFC Award announced by the Provincial Finance Commission.

MITIGATION STRATEGY

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

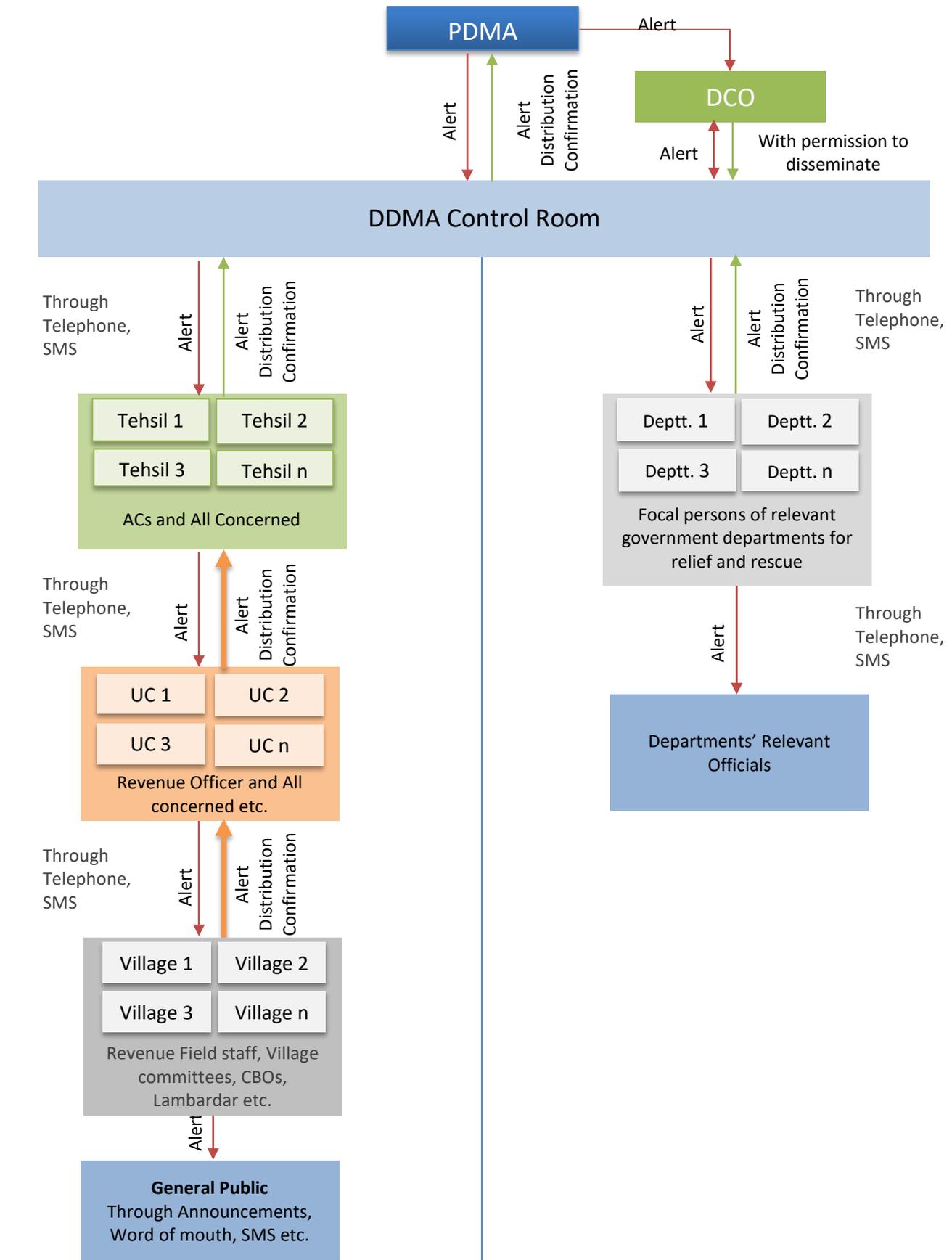
Hazards	Mitigate Actions	Responsible Department
Floods	<p>Mock exercises regarding flood are conducted with all departments in District.</p> <p>Medical camps may be established in flood affected areas.</p> <p>Public awareness campaign for timely evacuation from flood affected areas.</p> <p>Ensure coordination with all departments for timely response in flood prone areas.</p>	<p>Irrigation, Rescue 1122, Health Department MC, Revenue Department , Live Stock Department</p>
Urban Flooding	<p>The waste water disposal stations are in bad shape because of out dated and workout structure. The sewage pipe line are also old and work out. The same is meant to catch the rain water as well. Hence, poses great threat towards urban flooding in rainy seasons especiously when power failures occure. However a 500mm packages of ADB under intermidate cities improvement programme initiated by LG &CDD is likely to give the udner ground city a new look and shed all the fears of likely urban flooding during raining seasons as well as its over all out look within the next a couple of years.</p>	
Flash Floods	Nil	
Hill Torrent	Nil	
Glacial Lake Outburst Flood (GLOF)	Nil	
Landslide	Nil	

Tornado	Nil	
Earthquake	Nil	
Drought		
Epidemic		
Fire Incidents	Small fire incidents become of shot circuits and decanting of liquified petroleum gases do assure of and on in the city but Fire service both of MC and Rescue 1122 is equiped enough to respond to any such situation.	Rescue 1122, Fire Bregade, MC
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane	Ensure to prevent one wheeling ensure to prevent high speed and overloading ensure to use helments ensure to use safety belts ensrue to use reflectors behinds trolley and rikshawas ensuree demolishing of old and dengerious buildings ensure safety protocols to be followed in high rise build ings evacuation plan must be ensured	RExcue 1122, Health Department, Moter way Police, MC, Tariffice Police.

<p>crash)</p>	<p>enter & exist points must be declared industries should not be situated in residential areas ensure to conduct evacuatin drill in all schools, colleges, universities and industries.</p>	
<p>Environmental Hazards (industrial accidents, severe pollution etc.)</p>		

EARLY WARNING

Information Flow Diagram



Alertness Levels

Following four levels alertness have been established:

<p>Level-D (Disaster threat is perceptible)</p>	<p>DDMA shall conduct monthly meetings besides atleast 2 mock exercises as per DDMP, well in time, to make the concerned officers/officials understand their role and responsibility for better coordination and testing of rescue and relief equipment. DDMA shall also ensure the physical presence of concerned staff deputed and availability of equipment/resources for all designated vulnerable sites within given time frame during disaster. Vulnerable site's inspections and necessary works/action shall be carried out as mitigation measures.</p>
<p>Level-C (Alert) (Warning issued but likelihood of occurrence is less than 100%)</p>	<p>Activities to be undertaken in level D + 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>Level-B (High Alert) (Disaster threat is imminent)</p>	<p>Activities to be undertaken in level C + 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, MC etc) facilities shall work 24/7 with full staff strength. DDMA shall monitor the situation on hourly basis.</p>
<p>Level-A (Red Alert) (Disaster is materialized)</p>	<p>Activities to be undertaken in level B + DDMA shall respond to the emergency immediately and shall carry out rescue and relief operation as defined in DDMP and shall continuously monitor the situation. Resources of adjoining districts shall be mobilized and Army may be called keeping in view the magnitude of the disaster.</p>

Early Warning

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

Who is the focal person at district level?

Functions of District/Tehsil Emergency Control Rooms in early warning

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

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

A District Control Room is established throughout the year. The controls rooms at each Tehsil headquarter are established at the start of each flood season or as soon as any severe weather/ disaster alert is generated from the Provincial Headquarter, under the direct supervision of each Assistant Commissioner. Each District department especially police and Rescue 1122 also established their separate control rooms. The District Control Room is directly monitored by the Deputy Commissioner or his nominee (ADC(R) or ADC(G) etc).

As soon as some alert situation is initiated the lower revenue formations i.e. upto Patwaris are intimated and directed to respond immediately through landline and cellular networks e.g. evacuation of population of any target area. Safe haven are already identified to more the target population thereto e.g. schools etc. Camps of all emergency services departments are also established therein as required by the magnitude of the emergency situation.

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.*

1. As an immediate action, information is to be disseminated to the target area/population through announcements on local speakers and drum beats by the lower revenue field staff.

2. Rescue 1122 responds to any emergency situation in minimum possible time and other departments like Health and Civil Defense follow suit. District administration is always alert to make up the deficiencies and fill up the gaps by mobilizing communities through NGOs and its own revenue field formations.

3. Pakistan Army is usually kept on call and invited only when the situation is out of control of the Civil Administration. In Pakpattan, usually two companies of Army are deployed during elections or Muharram processions.

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*

The damage and loss data is collected by registration of affectees of any disaster either in the relief camps established for the displaced people through revenue/ agriculture field formations in case of damage to life or property/crops etc in case of earth quakes, floods etc. Usually, a third party validation is done to authenticate the validity of data either by out sourcing the task to some well renowned national/international firm or a neutral team from some neighbouring district is detailed to conduct the data validation by field visits of the actual disaster stricken area.

usually, the relief activities are designed and provided as per UN standards regarding food, health, shelter etc which are constantly monitored by PDMA onmitoxs and even independent NGOs, working in aid of the government.

ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

S#	Location	No. of persons which can be accommodated	GPS Coordinates	S#	Location	No. of persons which can be accommodated	GPS Coordinates
1	BHU Pir Ghani Pakpattan	250	X: Y:	16			X: Y:
2	Govt. Elementary School Basti Ghulam Farid Pakpattan	300	X: Y:	17			X: Y:
3	Govt. Elementary School Malik Bahwal Pakpattan	200	X: Y:	18			X: Y:
4	Govt. High School Feroze Pur Chishtian Pakpattan	250	X: Y:	19			X: Y:
5	Veterinary Hospital Mari Amb Pakpattan	250	X: Y:	20			X: Y:
6	BHU Hotta Pakpattan	200	X: Y:	21			X: Y:
7	Govt. High School Noora Rath Arifwala	200	X: Y:	22			X: Y:
8	BHU Arazi Dilawar Arifwala	300	X: Y:	23			X: Y:

9	Al-Farid Oil Mill Chowk Marly Arifwala	250	X: Y:	24			X: Y:
10	Govt. Boys Primary School 25/KB Arifwala	200	X: Y:	25			X: Y:
11	Union Council Office Goharabad Jamu Bodla Arifwala	150	X: Y:	26			X: Y:

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

Hazards	Tehsils	UCs	Names of Revenue Estates	
Floods	02	6	40	Bhella, Dhakkar, Malay Kay Taroo Kay, Kund Malay Kay, Ameer Ahlu Ka, Kund Saddu Haider Malkana, Chak Ameera AhluKa, Mustaqeem Mamuka, Meer Khan Mauka, Meer Khan Mamuka, Kund Mahaar Kalan, Kund Nain Singh, Rakh Feroze Pur, 5/KB, Rehmani Malkana, Chak Khaggay Wala, Arazi Jhajhal Bhag, Bahadar Ali, Shaikhay Kay, Mumay Kay , Tirsangi, Sahanwali, Belari Peeran, Bablana, Munawar , Kadoos, Mari Umb, Kund Noora Rath. Kund Shamas Din, Kund Kabal, Belari Kasooria, Belara Delawar, Belara Lakhu Ka, Kalia Shah, Belara Hassan Ka, Hassu Hassan Ka, Sohawa-Mal, Natha Singh, Sham Din, Shahbazi, Bilara Arjun Kay, Madhu Feroz Kay, Mouza Santhy Kay
Urban Flooding	Nil			
Flash Floods	Nil			
Hill Torrent	Nil			
Tornado	Nil			
Earthquake	Nil			
Drought	Nil			

Epidemic	Nil			
Environmental Hazards (industrial accidents, severe pollution etc.)	Nil			

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	Pir Ghani	X: 30.3777 Y: 73.5932	BHU	Mr. Bashir Kashif 0301-7257904	Flood
2	Malika Taroo	X: 30.3386 Y:73.4992	BHU	Mr. Saleem S/I 03026902267	Flood
3	Lakhwera	X: 30.2434 Y:72.86	BHU	Mr. G.Mustafa 0301-7242903	Flood
4	Hota	X: 30.1948 Y: 73.2023	RHC	Mr. Imtiaz Ul Haq 0346-4880042	Flood
5	Noora Rath	X: 30.1537 Y:73.1635	BHU	Mr. Ali Sher 0304-6084065	Flood
6	Behli Dilawar	X: 30.095 Y:72.953	BHU	Mr.Asim Sharif 0345-7115292	Flood
7	Tibbi Lal Baig	X: 30.1148 Y:73.0823	BHU	Mr. Arshad Ali 0300-2790642	Flood
8	Qaboola	X: 30.1779 Y:73.0569	RHC	Mr. Liaqat Marghood 0300-7592274	Flood
9	Kumhariwala	X: 30.3754 Y:73.4838	BHU	Mr.M.Saleem Wattoo 0300-6945068	Flood
10	93/D Noor Pur	X: 30.489 Y:73.2515	RHC	Mr.M.Saeed 0300-6943764	Flood

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

SR.NO	NAME	Primary /Middle / High	GPS COORDINATE S	ENROLLMENT	IN-CHARGE	CONTACT. NO
1	GES Farid Kot	E	nil	320	M.Perveez	0345-7113715
2	GPS Zafar Kot	P	nil	67	M.Saleem	0306-4773717
3	GPS Tibi Sohail	P	nil			
4	GES 63/D	E				
5	GPS Khan Singh	P	nil	290	Muhammad Hussain	0308-7546171
6	GPS Nizam Adlikay	P	nil	104	M.Ali	0304-2891879
7	GPS Chah Dogaran	P	nil	58	M.Umer	0301-4829107
8	GPS Aslam Noi	P	nil	228	M.Sajjad Haider	0337-7434810
9	GPS 40/sp	P	nil	139	Liqat ali	0302-7221040
10	GPS Jund Wala	P	nil	148	M.Yaseen	0300-6932290
11	GPS Bhela Hithar	P	Nil	160	M. Ashraf	0307-4794528
12	GPS Dedar Slng	P	nil	285	Noor Smand	0301-7351037
13	GPS 14/KB	P	nil	198	Imran Shoaib	0343-4359450
14	GPS 11/KB	P	nil	166	Naseer Ahmed	0300-9690263
15	GPS Ghurnaj	P	nil	74	Karam Din	0346-4916625
16	GPS Wara Pera Khurd	P	nil	93	M.Nawaz	0301-6852501
17	GPS Malooka Kalan	P	nil	167	Umer Nadeem	0300-5086653
18	GPS MAlyana	P	nil	147	Qamar Yaseen	0345-4405707
19	GPS Alam Dhudhi	P	nil	98	Abid Maqsood	0301-6914174
20	GPS Mal Bohar	P	nil	94	M.Ahmed	0300-8758373
21	Gps 107/D	P	nil	160	Ghulam Subhani	0333-6926600
22	GPS 10/KB	P	nil	132	M.Hussain	0300-6658952
23	GPS 88/D	P	nil	120	Noor Ahmed	0300-697680
24	GPS 74/D	P	nil	165	Ahmed	0300-6907680

ANNEX V:LIST OF INDUSTRIES

Sr. #	Category of Units	Number
1	Agricultural Implements Manufacturing Units	14
2	Aluminum Products	9
3	Auto Parts	10
4	Biscuits Factories	6
5	Cement Products	2
6	Cold Storages	79
7	Confectionery	35
8	Cosmetics	1
9	Cotton, Ginning & Pressing	58
10	Dairy Products units	5
11	Drugs & Pharmaceuticals	2
12	Electric Goods / Fans & Coolers	9
13	Flour Mills	14
14	Food Products	2
15	Foundry Products	4
16	Leather Garments	2
17	Packages	1
18	Plastic Products	3
19	Poultry Feeds	2
20	Rice Mills	48
21	Seed Processing Mills	3
22	Soap & Detergent Factory	1
23	Surgical Cotton/Bandage Factory	2
24	Tanneries	13
25	Textile Spinning Mills	5
26	Textile Weaving Mills	3
27	Tobacco	1
28	Unani Medicine	1
29	Vegetable Ghee & Cooking Oil	6
	Total	341

ANNEX VI: LIST OF NGO WORKING IN THE DISTRICT

Sr. No.	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Culuster of work (e.g WASH, Heealth Education)	Contact Person Name	Contact Person Mobile
1	Public Welfare Society Arifwala	Local	District Pakpattan	Education, Women & Child Welfare	Ch. Muhammad arshad	03216521544
2	Public Welfare Society Pakpattan	Local	District Pakpattan	Education, Women & Child Welfare	Ms. Huraira Nawaz	0345-4536247
3	Sahara welfare Association Pakpattan	Local	District Pakpattan	Prisoners Welfare	Mrs. Mehrun Nisa Chudary Advocate	0308-7380805
4	Arifwala Development Programe	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Mrs. Nighat Rana	0300-4600187
5	Dehi Tarqyati Council Kalyana	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Muhammad Shafiq Tariq	0311-6980846
6	Hamdard Anjaman Basti Seal Gaon	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Religious Education	Abdul Rub	0300-8753912
7	Anjaman Islah-e-Moashra Chak 38/EB Arifwala	Local	District Pakpattan	Women Welfare ,Patient Welfare , Religious Educa tion	Muhammad Shafiq Bhatti	0301-6929313

8	Deaf & Dumb Association	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Syed Zufrullaha Shah	0300-8755061
9	Anjama-e- Islah-e-Moashra	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education, Anti norcotics	Dr. Iqbal Ahamed	0333-6944251
10	Azam Foundation	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education, Reheblitation of Special Persons	Muhammad Jameel Fareedi	0300-6940751
11	Student Welfare Society Arifwal	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Tariq Mehmood Bhatti	0300-4818421
12	Human Resource Development & Farmer Support Council	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Mr. RubNawaz Sukhaira	0334-1740000
13	Roshni Welfare Society	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Hafiz Ifthikhar - UI-Hassan	0300-4906098
14	Waqar Women Welfare Association Chak No.28/EB	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Mrs. Waqar-Un-Nisa	0300-8969128
15	One Welfare	Local	District Pakpattan	Live Stock	Dr. Insha	0302-

	Society Rang Shah			Development, Youth Skill Development		7340111
16	Khidmat-E-Khliq QWelfare Society	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Nazeer Ahamed	0302-6940879
17	Pakpattan Development Foundation	Local	District Pakpattan	Women Welfare ,Patient Welfare, Enviornmental protection ,Education	Peerr Saeed Ahamed Chisti	0300-8640541
18	Salah Welfare Society Dhapi	Local	District Pakpattan	Women Welfare ,Patient Welfare ,ReligiousEducation	Mr. Aziz Muhammad Salah	0300-4532639
19	Hope for Humanity Foundation Arifwala	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Ch. Muhammad iqbal	0301-7254488
20	Al-Mustafa Welfare Society	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Educational Reforms	Muhammad Tanveer Tahir	0300-6947438
21	Fazeela welfare Foundation Arifwala	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Mr. Lutufullaha Gogi	0300-6913572
22	Ahamed Welfare organization	Local	District Pakpattan	Women Welfare ,Patient	Mrs. Zahida Aslam Chudary	0301-3001970

	Chowk Merlay			Welfare ,Education		
23	Social Development Council Malka Hanse	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Mr. Ghulam Nabi dhudi	0300- 7531467
24	Rehmat-e-alam welfare Society Pakpattan	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Urooj Eishrat	0301- 7251183
25	Ujala Welfare Society	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Ms. Sumaira Yasmin	0303- 7613885
26	Jinnaha welfare Association 128/EB	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education	Mr. Amir Ali	0306- 4777167
27	AnjamanE-Flah- E-Niswan	Local	District Pakpattan	Women Welfare ,Patient Welfare ,Education.	Mrs. Nasreen Awan	0300- 6901107

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Arif Umar Aziz	0457-352725		0333-8013524
2	Commissioner	Ch. Asif Iqbal	9200491	9200499	03040920056
3	RPO	M.Tariq Chauhan	9200011	9200080	
4	DCO	Sukrat Aman Rana	0457-374198		0341-0922063
5	DPO	Kamran Yousif	0457-374106		0332-8111400
6	ADC	Arif Umar Aziz	0457-352725		0333-8013524
7	DEO Rescue 1122	Dr. Tahir	0457352274		0344-6730994
8	DO Civil Defence	Mr.Muhammad Uzair	0457-371697		0304-7577241
9	SNA	Mian Fayyaz Masood	0457352840		03214630359
10	Assistant Commissioner Pakpattan	Qayoom Qudrat	0457-374459		0314-3604900
11	Assistant Commissioner Arifwala	Tariq Hussain Bhatti	0457-832018		0300-7578578
16	Tehsildar Pakpattan	Bakhtiar Ahmad Dhakoo			0300-6933892
17	Tehsildar Arifwala	Rana Eijaz Ahmad	0457920074		0300-7678093
22	TMO Pakpattan	M. Aslam Javid	0457-352415		03006969121
23	TMO Arifwala	Sayed Nasir Nouman,	0457-830266		0345-6256666
28	EDO Education	Javid Muzaffar Iqbal	0457-352450		0301-8629222
29	Executive Engineer Irrigation Sulimanki Division Sulimanki	Faisal Mushtaq			0300-7935754
30	Chief Engrn. Irrigation	Riaz Rasheed	061-9200144		
31	EDO C & W	Muhammad Riaz	0457376562		03007540031

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
32	EDO Community Development	Dr. Shouaib.	0457-352288		0302-7766293
33	EDO Agriculture	Ch.Muhammad Aslam	0457-376568		0343-6659293
34	EDO Health	Dr. Siraj ud Din	0457-352352		0300-6560171
35	DMO	Hamid Nasir Goraya	0457-352456		0346-6626663
36	Incharge DHQ Hospital	Dr Rehmat Ali	0457-373486		0302-4307614
37	Veterinary Officer	Dr. Lubna Jabbar (DLO)sss	0457-352691		0301-8462266

ANNEX VIII: LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Muhammad Mushtaq	36402-5802673-3	Lalazar Colony Eid Gah Pakpattan	0300-8008941	B +	Immediatly
2	Muhammad Anwar	36401-2046731-9	Mushtaq Nagar Arifwala	0342-6347017		Immediatly
3	Ameen Begum	36401-4069434-2	Bhatta No. 2 Arifwala	0302-4116815		Immediatly
4	Saba Iram	32301-5050290-2	Basti Mehndi Nagar Arifwala	0305-5441472		Immediatly
5	Nasreen Akhtar	36401-5020041-6	Gulshan Rafique Colony Arifwala	0301-7251640		Immediatly
6	Muhammad Rafique	36402-8083733-3	Chak No. 18/SP Pakpattan	0342-6356282		Immediatly
7	Zaib Un Nisa	36402-0451695-8	Mohallah Farid Nagar Pakpattan	0312-6450833		Immediatly
8	Safdar Ali	35301-1401553-1	chak No. 37/SP Pakpattan	0303-9890573		Immediatly
9	Munawar Ali	36402-0832721-7	Abadi Aslam Noi Pakpattan	0301-7232001		Immediatly
10	Abdul Majeed	36402-0810178-1	Mohallah Hassan Pura Pakpattan	0332-9796760		Immediatly
11	Muhammad Amin	36402-0789861-7	Mohallah Hassan Pura Pakpattan	0321-7289536		Immediatly
12	Zubair Ahmad	36402-8653818-7	Mohallah Eid Gah Pakpattan	0303-4022523		Immediatly
13	Rubi Akram	36402-8698668-8	Mohallah Hassan Pura Pakpattan	0307-6948158		Immediatly
14	Muhammad Nadeem	36402-3436859-7	Mohallah Liaqat Abad Pakpattan	0305-7344675		Immediatly
15	Zahida Parveen	36402-7633545-8	Fawara Chowk Pakpattan	0332-7463395		Immediatly
16	Muhammad Sardar	36402-8858804-1	Mohallah Rahmat Pura Pakpattan	0306-4602486		Immediatly
17	Muhammad Ahmad	36401-7465013-9	Chak No. 25/EB Arifwala	0346-4882199		Immediatly
18	Muhammad Usman	36401-1426061-3	Chak No. 34/EB Arifwala	0312-6099879		Immediatly
19	Rasheed Ahmad	36401-0409798-7	Chak 137/EB Arifwala	0301-4394361		Immediatly

20	Kashif Naveed	36402-2623564-1	Chak 32/SP Pakpattan	0342-4464316		Immediatly
21	Muhammad Hussain	36401-7341555-7	Chak 35/EB Arifwala	0307-3949397		Immediatly
22	Asif Ali	36402-6263843-7	Chak 72/D Pakpattan	0306-6203872		Immediatly
23	Muhammad Ashraf	36402-6953721-3	Chak Shamlat Pakpattan	0307-7246935		Immediatly
24	Saba Shaheen	36402-8239015-8	Mohallah Karm Pura Pakpattan	0345-7348987		Immediatly
25	Naeem Akhtar	36401-1486279-4	Muzafar Abad Arifwala	0305-4748303		Immediatly
26	Nawaz Ali	36401-6931549-9	Mushtaq Nagar Arifwala	0304-7055883		Immediatly
27	Muhammad Ramzan	36401-9388192-3	Mari Hazaran Arifwala	0343-7318349		Immediatly
28	Muhammad Sharif	36401-0909218-5	Al-Badar Colony Arifwala	0322-2785868		Immediatly
29	Muhammad Tayyab	36401-6635275-3	Chak 339/EB Arifwala	0342-8015932		Immediatly
30	Muhammad Khaliq	36502-1675733-9	Malik Bahawal Pakpattan	0307-6563356		Immediatly

ANNEX IX: POLITICAL CONSTITUENCIES

National Constituencies				Provincial Constituencies			
Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number	Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number
NA-164	Sardar Mansab Ali Dogar R/O Chak No.30/SP Pakpattan	-	0308-770777 0300-6944655	PP-227	Mian Atta Mohammad khan Manika R/O Chak Noor Muhammad Pakpattan	-	0334-0040404 0457-570235 042-5833859
NA-165	Syed Athar Hussain Shah Gillani R/O Gillani House Qaboola Pakpattan	-	0300-6944401 0457-851053	PP-228	Mian Naved Ali R/O Civil Lines Pakpattan	-	0300-5554446
NA-166	Rana Zahid Hussain Khan R/O H.No.64 Gulshan Iqbal Town Arifwala	-	0300-4537087 0457-832095 0457-832294	PP-229	Pir Ahmad Shah Khagga	-	0301-8649512
				PP-230	Dr. Farrukh Javid R/O Qaboola Bazar Arifwala.	-	0300-6849736 0300-4116512 0457-830077-832342 042-5835597
				PP-231	Pir Kashif Ali Chishti R/O Chak Asadullah Pur Qaboola Pakpattan	-	0300-9447415 042-35761259 0457-851777

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	District Chairman	NII	NII		
2	District Vice Chairman	NII	NII		
3	Tehsil Chairman	NII	NII		
4	Tehsil Vice Chairman	NII	NII		
5	Tehsil Chairman	NII	NII		
6	Tehsil Vice Chairman	NII	NII		
7	Tehsil Chairman	NII	NII		
8	Tehsil Vice Chairman	NII	NII		
9	Tehsil Chairman	NII	NII		
10	Tehsil Vice Chairman	NII	NII		
11	Tehsil Chairman	NII	NII		
12	Tehsil Vice Chairman	NII	NII		
13	Tehsil Chairman	NII	NII		
14	Tehsil Vice Chairman	NII	NII		

UC Level

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
1	Pakpattan	UC No. 1, HQ Hella Wattoan.	Mian Mohammad Saeed	0300-6943033	Fakhar Hayyat	0345-4696759
2		UC No. 2, HQ Tiwana Kalan	Mian Mohammad Tariq Sussal	0300-6940852	Rao Abdul Qayyum	0345-7125255
3		UC No. 3, HQ Bunga Hayat	Rao Amjad Naeem	0300-6940006	Hassan Muhammad	0345-9494995
4		UC No. 4, HQ Chak Bedi	Mohammad Arif Liaqat	0300-6949089	M. Ameen Kalya	0345-8833677
5		UC No. 5, HQ Chak No. 26/SP	Abdul Qayoom Shah	0300-6949171	Mian Faiz Kareem	0321-7290983
6		UC No. 6, HQ Chak Noor Mohammad 11/SP	Mohammad Sher Bahadar	0302-7256963	Rao Rahat Ronaq	
7		UC No. 7, HQ Chak No. 17/SP	Tariq Razzaq Bhatti	0300-8755219	Rao Ashfaq Ahmad	0300-8756344
8		UC No. 8, HQ Chak No. 15/SP	Ghulam Sarwar Bodla	0300-6949308	Sardar Shokat Ali	0300-8443901
9		UC No. 9, HQ Kumhari Wala	Syed Noor Shah	0300-7627674	Shahbaz Maleka	0300-6943029
10		UC No. 10, HQ Musewal.	Mian Zahid Sarfraz Wattoo	0308-3986665	Allah Ditta	0306-8807854
11		UC No. 11, HQ Bail Gunj	Khalid Saeed Khan	0300-8451141	M. Ahmad Sherazi	0300-7923246
12		UC No. 12, HQ Pir Ghani.	Mian Ahmad Raza Manika	0300-8452073	Fiaz Ahmad	0300-8750778
13		UC No. 13, HQ Jagga Baloch	Mian Nasarullah	0300-6944808	Abdul Rehman	0307-3662406

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
			Khan			
14		UC No. 14, HQ Behrampur.	Hafiz Amjad Iqbal	0301-7255884	Nadeem Khan	0300-8008605
15		UC No. 15, HQ Ferozpur Chistian	Mohammad Saleem Chishti	0345-7115500	Munawar Zareef	0300-8752842
16		UC No. 16, HQ Kalyana.	Mazhar Zaman Bhatti	0302-7242919	Mehmood Ul Hassan	0345-7121835
17		UC No. 17, HQ Hotta.	Ahmar Abbas	0300-8611777	Abdul Malik Chisti	0301-7245792
18		UC No. 18, HQ Chak No. 15/KB.	Ali Imran Rath	0345-8400096	Bashir Ahmad	0346-4886432
19		UC No. 19, HQ Pakka Sidhar.	Israr Zafar	0345-7141768	Afzal Joyia	0300-6947093
20		UC No. 20, HQ Dhawana.	Javed Ahmad	0308-6245634	Munir Ahmad	0307-2581324
21		UC No. 21, HQ Chak No. 37/SP.	Bashir Ahmad	0300-5280093	M Ameen	0303-9145140
22		UC No. 22, HQ Chak No. 20/SP	Ghulam Sarwar	0300-4788061	Abdul Rehman	0300-4072110
23		UC No. 23, HQ Malka Hans.	Khalid Saeed Hans	0300-8796066	M. Ehsan	0300-8750107
24		UC No. 24, HQ Dhappai.	Mahmood Saeed Bhatti	0301-8601151	M. Zaman	0301-7249636
25		UC No. 25, HQ Chak Sandhay Khan.	Bamoon Khan	0307-6585271	M. Jaffar	0300-8093410
26		UC No. 26, Chak No. 93/D Noor Pur	M.Faisal Javaid	0300-7830593	M. Ayyub	0300-8750993
27		UC No. 27, HQ Chak No. 85/D	Shafqat Yaseen	0300-6919082	Ali Abbas	0300-8194393
28		UC No. 28, HQ Chak No. 96/D	Shoukat Ali Khichi	0300-6922150	Nazeer Ahmad Qadar	0333-6367107
Tehsil Arifwala						
29		UC No. 29, HQ Chak No. 59/EB	Mohammad Islam Joiya	0300-8455360	Amanat Ali	
30		UC No. 30, HQ Chak No. 151/EB	Mohammad Arshad	0300-6946156	Mazhar Hussain	
31		UC No. 31, HQ Chak No. 34/EB	Ch.Javed Ahmad	0301-8696231	Mujtaba Bhatti	
32		UC No. 32, HQ Chak No. 50/SP	Mohammad Aslam Pervez	0304-6041042	Ali Akbar	
33		UC No. 33, HQ Chak Shafi	Ch.Zaheer Babar Gujar	0303-4196600	Gohar Zaman	
34		UC No. 34, HQ Jeewan Shah	Shah Moin U Deen	0300-6565011	Nasir Khan	
35		UC No. 35, HQ Chak No. 13/EB	Mohammad Ijaz Ahmad	0345-7295160	Zafar Qureshi	
36		UC No. 36, HQ Chak No. 75/EB	Anees Amir	0321-4048555	Tariq Sukhera	
37		UC No. 37, HQ Chak No. 69/EB	Syed Ahmad Hassan Shah	0302-3743426	Anjam Umair	
38		UC No. 38, HQ Qaboola	Syed Arif Shah	0301-7390257	M. Akram	
39		UC No. 39, HQ Pir Sadar Din	Sardar Mohammad AliDogar	0300-6944400 0302-6944400	M. Anwar	
40		UC No. 40, HQ Noora Rath	Muhammad Abbas Shah	0300-8790025	Allah Jawaya	
41		UC No. 41, HQ Machi Sing	Khalid Qutab Chishti	0300-8401939	Rao Fareed	
42		UC No. 42, HQ Chak No. 18/KB	Imran Akram	0300-6949185	Mubarak Ali	

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
43		UC No. 43, HQ Jamoo Bodla	Faiz Fareed Chishti	0334-6944486	Imran Aslam	
44		UC No. 44, HQ Arazi Delawar	Aftab Ahmad Khan	0300-2809215	Waheed Islam	
45		UC No. 45, HQ Chak Mehndi Khan	Farida Rana	0321-5103362	Azhar Shah	
46		UC No. 46, HQ Chak No. 163/EB	Mukhtar Ahmad	0301-7376704	Zahid Iqbal	
47		UC No. 47, HQ Chak No. 147/EB	Rana Ghazanfar Abbas	0300-4860771	Sabir Khan	
48		UC No. 48, HQ Chak No. 351/EB	Tahir Niaz	0300-6942101	Ijaz Bhatti	
49		UC No. 49, HQ Chak No. 86/EB	Rehmat Ali Shah	0344-6948086	M. Tahir	
50		UC No. 50, HQ Chak No. 66/EB	Irfan Naeem Doger	0305-9914996	Mushtaq Ahmad	
51		UC No. 51, HQ Chak No. 48/EB	Syed Zahid Shah	0300-6957042	Noor Nabi	
52		UC No. 52, HQ Chak No. 83/EB	Muhammad Aslam Sukhera	0300-4330242	Pir Fawad Ahmad	
53		UC No. 53, HQ Chak No. 109/EB	Syed M.Azmat Ali Shah	0345-7501751	M. Yousaf	
54		UC No. 54, HQ Chak No. 137/EB Moin Kot	Rana Iradat Shareef	0345-8446950	Ajmal Khan	

ANNEX XI: DATA COLLECTION PERFORMAS

P1: House Damage Assessment

District: _____

Date: _____

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

P2: Deceased Person Reporting Performa

District: _____

Date: _____

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

P3: Injurd Person Reporting Performa

District: _____

Date: _____

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

P4: Cattle Head Perished

District: _____

Date: _____

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

P5: Crop Damages

District: _____

Date: _____

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

P6: Relief Distribution Tracking Performa

District: _____

Date: _____

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

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

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

District: _____

Date: _____

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

P8: Relief camp registration Performa

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

District: _____

Date: _____

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

P9:NGOs registration performa

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

District: _____

Date: _____

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

P10: Control Room

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

District: _____

Focal Person: _____

Date: _____

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

ANNEX XII: CAMP MANAGEMENT SOPS

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

Land	3.0-4.5 square meter per person
Shelter	3.5 square meter per person
Water	15-20 liters per person per day
Food	2100 kcal per person per day
Toilet	One per family of 6-10 persons
Health Centre	One per 20,000 persons
Child Friendly Spaces	2-4 year olds- 15 children:2 facilitators
	5-9 year olds-20 children : 2 facilitators
	10-18 year olds- 30 children :2 facilitators
Hospital	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)
SARGODHA ZONE			
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
Total in feet.			25,413
Total in Miles.			4.81
PMO BARRAGES			
1	Kalabagh H/Works Division	Jinnah Barrage	25,080
Total in feet.			25,080
Total in Miles.			4.75
FAISALABAD DIVISION			
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
Total in feet.			133,875
Total in Miles.			25.36
BAHAWALPUR ZONE			
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
Total in feet.			55,000
Total in Miles.			10.42
MULTAN ZONE.			
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
Total in feet.			80,000
Total in Miles.			15.15
D.G.KHAN ZONE			
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khargarh Flood Bund	5,000
7	-do-	Khanwah Flood Bund	5,000
8	Jampur Construction Division	Jampur Flood Bund	5,000
9	-do-	Rojhan Flood Bund	20,000
Total in feet.			1,35,000
Total in miles			25.57

LBDC(IP)			
1	Balloki Head works Division	Left Marginal Bund	15,000
2	do	Right Marginal Bund	15,000
Total in Feet			30,000
Total in miles			6
LAHORE ZONE			
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
Total in Feet			115,940
Total in miles			22
Grand total in miles			114

INFORMATION REGARDING FLOOD BUND CATEGORY B

S#	Name of Division	Name of Embankment / Bund	Length (ft.)
SARGODHA ZONE			
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
Total in feet.			35,000
Total in miles			6.63
FAISALABAD ZONE			
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
Total in feet.			165,000
Total in miles			31.25
BAHAWALPUR ZONE			
1	Punjad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
Total in feet.			290,000
Total in miles			54.92
MULTAN ZONE			

1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	Total in feet.		190,000
	Total in miles		35.98
D.G.KHAN ZONE			
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
	Total in feet.		630,000
	Total in miles		119.32
LBDC (IP)			
1	Balloki Headworks Division	-do-	40,000
2	Okara Division	-do-	40,000
3	Sahiwal Division	-do-	20,000
	Total in feet.		100,000
	Total in miles		18.94
LAHORE ZONE			
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
	Total in feet.		422,000
	Total in miles		79.92
PMO BARRAGES			
1	Jinnah Barrage	-do-	20,000
	Total in feet.		20,000
	Total in miles		3.79
	Grand Total (in miles)		350.76

ANNEX XIV: RIVER DISCHARGE RATES

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

ANNEX XV: LIST OF BASIC TERMS

Acceptable risk

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

Biological hazard

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

Capacity

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

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

Capacity building

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

Climate change

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

Coping capacity

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

Disaster

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

Disaster risk management (DRM)

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

Disaster risk reduction/disaster reduction

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

Early warning

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

Emergency management

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

Forecast

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

Geological hazard

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