

DISTRICT DISASTER MANAGEMENT PLAN 2016

Division: MULTAN

District: LODHRAN



IDP Camp in 2009



Earthquake



Floods in 2014



Fire incident at Lahori Gate, Lahore – Jan 2016

Prepared by: Dr. Javed Ahmad, ADC Lodhran.

Approved by: Muhammad Shahid Niaz, DCO Lodhran

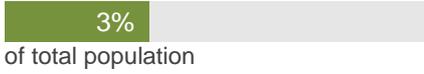


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LODHRAN

Estimated number of people at risk of **floods** in 2016



of total population

Risk: Low

LODHRAN

Estimated number of people at risk of Hill Torrent in 2016



of total population

Risk: Low

LODHRAN

Estimated number of people at risk of earthquake in 2016



of total population

Risk: Low

LODHRAN

Estimated number of people at risk of epidemic in 2016



of total population

Risk: Low

EXECUTIVE SUMMARY

DISASTER RISK MANAGEMENT PLAN lay out strategies and policies to minimize / magnitude of damage by effective preparedness that enables to control and prevent escalation. It also facilitates rehabilitation of the effected lot and disciplining chaos. DISASTER RISK MANAGEMENT PLAN make means to fully utilize the District's assets and potential to pre-empt a collateral damages in case of an unavoidable catastrophe and to expedite the reconstruction process in the aftermath scenario.

The focus is on meticulous planning in developing and employing a reliable and early detection of an emergency. The plan can be successfully executed by establishing a concrete command and coordination system, revamping its organizational structure and training personal. It is imperative to accurately handle the available resources in emergency and also to given an appropriate response/action.

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	1,469,750
2.	No. of Tehsils	3
3.	No. of UCs	73
4.	No. of Revenue Estates	439
5.	Population Density (people per km ²)	428
6.	Family Size	7
7.	Pop Growth Rate	2.70
8.	PCI	
9.	District GDP/Annual Income	
10.	Poverty Rate	
11.	Patient/Doctor Ratio	
12.	AMR	
13.	IMR	
14.	MMR	
15.	Literacy Rate	29
16.	Global Acute Malnutrition (GAM) rate	
17.	Severe Acute Malnutrition (SAM) rate	
18.	Percentage of population having access to clean drinking water	60%
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)
1,469,750	609,202	562,598	99,316	198,633	

Source/Note: Click here to enter text.

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
183,718	40,230	143,488

Source/Note: Click here to enter text.

Area (in acres)

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
691,115	615,270		

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
29%	%	%	%	%	%	%

Source/Note: Click here to enter text.

Government Schools

		Schools	Enrollment
Total/ Overall		816	
Boys	Primary	207	
	Middle	66	
	High	58	
Girls	Primary	370	
	Middle	80	
	High	43	
Co-Education	Primary		
	Middle		
	High		
Special Education		1	

Private Schools

		Schools	Enrollment
Total/ Overall		486	
Boys	Primary	10	
	Middle		
	High		
Girls	Primary		
	Middle		
	High		
Co-Education	Primary		
	Middle	416	
	High	49	
Special Education			

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	10	0	0	0	3	
No of Students	5,743				2,367	

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	52	3		62	117
Annual OPDs	141,235	558,799		111,600	308,715
No of beds	176	205		310	691
Doctors Available	50	91		85	226
Paramedical staff	335	58		350	743
Ambulances available	5	12		20	37
Mobile Medical Units					

Livestock: Small Animals (goats, sheep etc.): 475,580 Big Animals (cows, buffalos, camel etc.) 598,156

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
30%	5%	5%	0%	5%	15%	0%	10%	10%	15%	5%

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	1993	0	0	23		81	0	
2	1994	0	0	34	0	122	0	
3	1995	0	0	34	0	165	0	
4								

5								
6								
7								
8								
9								
10								
11								
12								

Disaster History – Other disasters (since 1970)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0				
5					
6					
7					
8					
9					
10					

General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Vehari, Bahawalpur, Multan
Topographical Features	
Weather/Climate pattern	e.g. max. and min. temperature, annual precipitation, storms, heat waves, snow fall etc. 16 min. 48 max
Major Rivers	Name of river, passing through areas along with length in the district Major Barrages and their Flood levels Satluj passing through Mouzas of Tehsil Kehror pacca and Lodhran
Major Nullahs / Streams	Name of river, passing through areas along with length in the district Flood levels nil
Motorway/Highway	Vulnerable points of motorway/highway nil
Railways	Vulnerable points of Railway nil

Geological features	e.g. fault line, mountainous areas etc. nil
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Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
0	0	X:0.00 Y:	0	0	0	
		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
0	0	0	0	0	X:0.00 Y: 0.00	0
					X: Y:	

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		
0	0	X:0.00 Y: 0.00	0	0	0	0	0
		X: Y:					
		X: Y:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
0	0	X:0.00 Y: 0.00	0	0	X:0.00 Y:
		X: Y:			X: Y:
		X: Y:			X: Y:

Airport / Landing Strips

Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
0	0	X:0.00 Y:	0	0	X:0.00 Y:
0	0	X:0.00 Y: 0.00	0	0	X:0.00 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
0	0	X:0.00 Y: 0.00	0	0	X:0.00 Y:
		X: Y:			X: Y:

COORDINATION MECHANISM

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



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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

In case of any disaster or calamity the head of the revenue department in the district i.e. the 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

Tehsil / Town Municipal Administration (TMA)

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

- TMAs employ de-watering sets to remove excess water. All TMAs are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The TMA maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- TMA should ensure supply of clean drinking in overhead reservoirs and ensure supply to the affected areas or relief camps through water bowsers. Clean drinking water is a major issue and requirement during any disaster.
- In case of any disaster that requires people to be relocated, the TMA under the concerned Administrator i.e 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 Defence, 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 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. **District Coordination Officer (Chairperson)**
 - ii. District Police Officer
 - iii. Additional District Collector
 - 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. Executive District Officer (F&P)

- ix. Executive District Officer (Works & Services)
- x. Executive District Officer (Health)
- xi. Executive District Officer (Education)
- xii. Executive District Officer (C&D)
- 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 up stream in case of a flood.
- The District Government would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Governments will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
- 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

- 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)

06089200121 at Additional District Collector Office Lodhran. Fax No. 06089200120. The representatives of all departments will be on duty round the clock in Disaster Emergency Control Room. The control room will be equipped with map of District stetched by all the departments. Information regarding any disaster to all concerned at country level by the office of DCO and ADC Office seeking help. Public awaraness by Information Department. Curbing of menace of rumors. Control room shall receive and disseminate information to all concerned. In order to tackle any untoward situation, a Crisis Management Center will be established in the Office of Additional District Collector Lodhran.

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

There will be close liaison with the high ups of Army Headquarter. The help of Army will depend upon the gavity of disaster. In case of high disaster, help of army will be requisitioned accordingly.

Volunteer Network

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

RISK ANALYSIS

1. Potential hazards of the district

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

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*

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)

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	1	1	0	10
OBM	1	1	0	10
De-watering sets	7	7	0	5
Navigators	0	0	0	2
GIS devices	0	0	0	9
Life Jackets	30	30	0	200
Life Ring	10	10	0	200
Life Lines	4	4	0	50
Scuba diving suit with complete accessories	0	0	0	100
First Aid Kits	120	120	0	50
Rescue Bag	11	11	0	200
Safety Harnesses	13	13	0	50
Ambulances	20	20	0	10
Fire Brigade	4	4	0	5
Water Tanks / Bouzers	4	4	0	10
Extendable Ladders	3	3	0	6
Hydraulic Cutter	0	0	0	6
Sonar Rader	0	0	0	24
Jumping Sheet	5	5	0	20
Dumpers	0	0	0	4
Excavators	0	0	0	4
Cranes	0	0	0	2
Bulldozer	0	0	0	1
Boat Carrier/Trolleys	13	0	0	0
Pickups/Jeeps/4x4 vehicles/Mini Trucks	27	27	0	0
Searchlight	1	1	0	20
Tent	300	300	0	0
Mosquito Net	200	200	0	0
Plastic Mat	250	250	0	0
Blanket	0	0	0	200
Any other main relief/rescue equipment	0	0	0	0
Generator Sets	0	0	0	5
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	0	0	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.)*

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

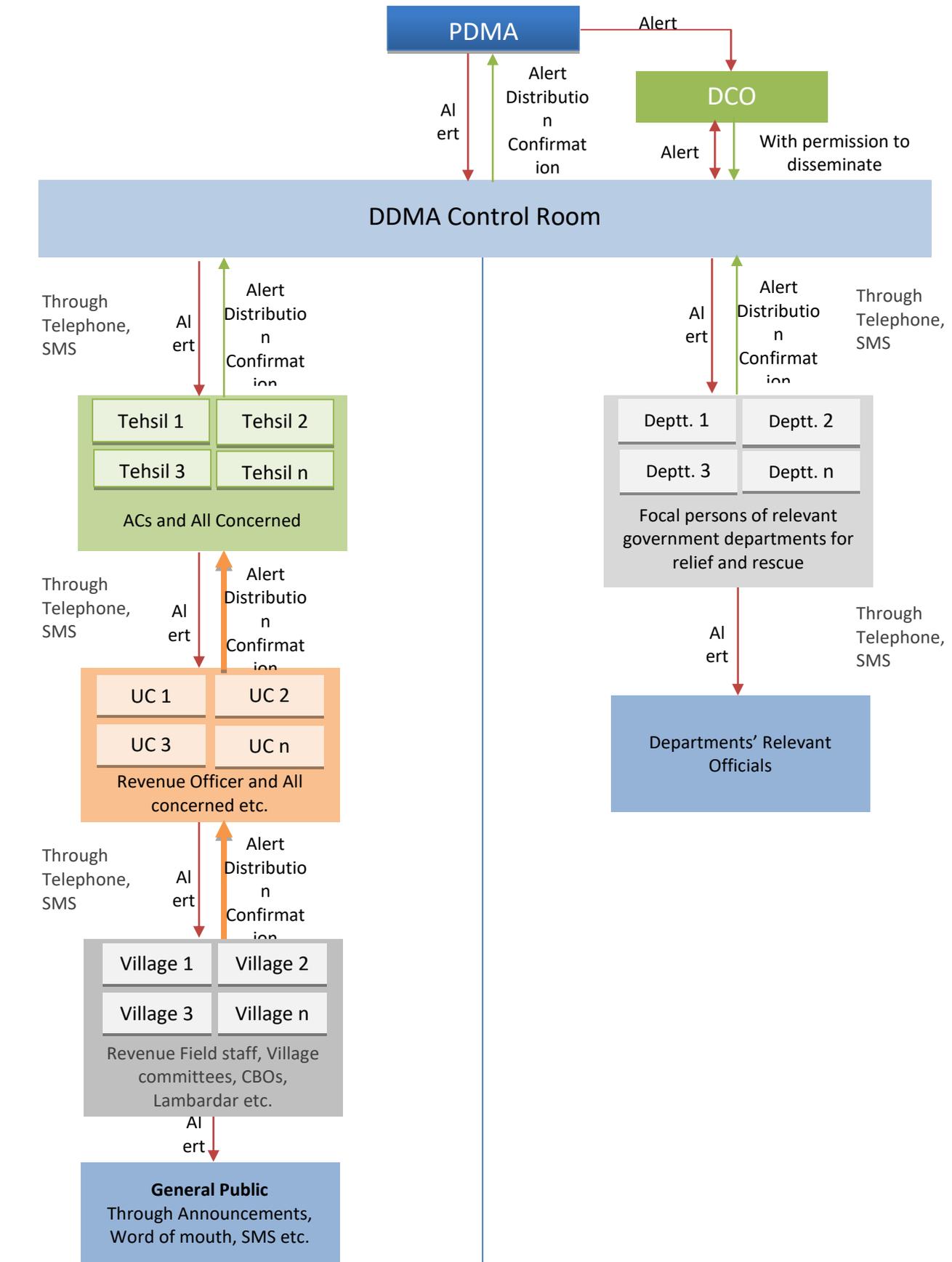
Hazards	Mitigate Actions	Responsible Department
Floods	The District Government and the concerned departments, organizations and agencies will consider the activities identified in the following areas of action and implementation as per available resources and timeframe as preparatory efforts to control crises and combat catastrophic situation in the district. Establishment of technical committees, institution, legal instruments, guideline and procedure is also envisioned to strengthen the Disaster Plan.	Revenue, Health, Rescue-1122, TMA, Education.
Urban Flooding	00	00
Flash Floods	00	00
Hill Torrent	00	00
Glacial Lake Outburst Flood (GLOF)	00	00
Landslide	00	00

Tornado	00	00
Earthquake		
Drought		
Epidemic		
Fire Incidents		
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)		

Environmental Hazards (industrial accidents, severe pollution etc.)		

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, TMA 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.

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.*

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*

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			X: Y:	16			X: Y:
2			X: Y:	17			X: Y:
3			X: Y:	18			X: Y:
4			X: Y:	19			X: Y:
5			X: Y:	20			X: Y:
6			X: Y:	21			X: Y:
7			X: Y:	22			X: Y:
8			X: Y:	23			X: Y:
9			X: Y:	24			X: Y:
10			X: Y:	25			X: Y:
11			X: Y:	26			X: Y:
12			X: Y:	27			X: Y:
13			X: Y:	28			X: Y:
14			X: Y:	29			X: Y:
15			X: Y:	30			X: Y:

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

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Kehror Pacca and Lodhran			
Urban Flooding				
Flash Floods				
Hill Torrent				
Tornado				
Earthquake				
Drought				
Epidemic				
Environmental Hazards (industrial accidents, severe pollution etc.)				

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

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	DHQ Hospital Bahwal pur road chak no.100/M Lodhran	X: Y:	Secondary	03009680601	No
2	THQ Hospital Kehror Pacca City	X: Y:	Secondary	03056306612	No
3	THQ Hospital Dunyapur City	X: Y:	Secondary	03457260577	No
4	BHU Adam Wahin Bahwal pur road Lodhran	X: Y:	Primary	03006801511	No
5	BHU Chamb kulayar Basti Chamb kulyar Lodhran	X: Y:	Primary	03006801511	No
6	BHU Khanwan Ghalwan Basti hayyat pur Lodhran	X: Y:	Primary	03006801511	No
7	BHU Malik Pur Mouza Hafiz Wala Lodhran	X: Y:	Primary	03006801511	No
8	BHU Havaily Naseer Khan	X: Y:	Primary	03006801511	No
9	BHU Ain Wahin , Naseer Uden Wahin Kehror Pacca	X: Y:	Primary	03006801511	No

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
10	BHU Shah pur Phul Teshil Kehror Pacca Lodhran	X: Y:	Primary	03006801511	No
11	BHU Bahwal Ghar Kehror Pacca	X: Y:	Primary	03006801511	No
12	BHU Ismail Pur Kehror Pacca	X: Y:	Primary	03006801511	No
13	BHU Massa Kotha Kehror Pacca	X: Y:	Primary	03006801511	No
14	BHU Chaly Wahin Kehror Pacca	X: Y:	Primary	03006801511	No
15	GRD Dera Mehroo Tehsil Kehror pacca	X: Y:	Primary	03006800041	No
16	GRD Chutala Lodhran	X: Y:	Primary	03009680601	No
17	RD Khanda Khoo Lodhran	X: Y:	Primary	03006800041	No
18	RD Rana Wahin Kehror Pacca	X: Y:	Primary	03006800041	No
19		X: Y:			
20		X: Y:			
21		X: Y:			
22		X:			

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
		Y:			
23		X: Y:			
24		X: Y:			
25		X: Y:			
26		X: Y:			
27		X: Y:			
28		X: Y:			
29		X: Y:			
30		X: Y:			
31		X: Y:			
32		X: Y:			
33		X: Y:			
34		X: Y:			
35		X: Y:			
36		X: Y:			
37		X: Y:			
38		X: Y:			
39		X: Y:			
40		X: Y:			

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
41		X: Y:			
42		X: Y:			
43		X: Y:			
44		X: Y:			
45		X: Y:			
46		X: Y:			
47		X: Y:			
48		X: Y:			
49		X: Y:			
50		X: Y:			
51		X: Y:			
52		X: Y:			
53		X: Y:			
54		X: Y:			
55		X: Y:			
56		X: Y:			
57		X: Y:			
58		X: Y:			
59		X:			

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
		Y:			
60		X: Y:			
61		X: Y:			
62		X: Y:			
63		X: Y:			
64		X: Y:			
65		X: Y:			
66		X: Y:			
67		X: Y:			
68		X: Y:			
69		X: Y:			
70		X: Y:			
71		X: Y:			
72		X: Y:			
73		X: Y:			
74		X: Y:			
75		X: Y:			
76		X: Y:			
77		X: Y:			

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
78		X: Y:			
79		X: Y:			
80		X: Y:			
81		X: Y:			
82		X: Y:			
83		X: Y:			
84		X: Y:			
85		X: Y:			
86		X: Y:			
87		X: Y:			
88		X: Y:			
89		X: Y:			

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GHS Bhawal Ghar	School	X: Y:	408	Mr. Mukhtar Ahmad HM	0301-7735700
2	GHS Jhanbi Wahin	School	X: Y:	474	Mr. Muhammad Akhtar SR. HM	0306-4014295
3	GHS Chamb Kulyar	School	X: Y:	442	Mr. Muhammad Akbar IS. HM	0344-7175701
4	GHS 90/M	School	X: Y:	261	Mr. Muhammad Iqal SST.	0301-7774341
5	GHS Qadir Pur Chimna	School	X: Y:	396	Mr. Muhammad Qasim HM	0300-7802690
6	GHS Adam Wahin	School	X: Y:	278	Muhammad Afzal HM	0300-6817980
7	GPS Mahar Kehror Pacca	Primary Male	X: Y:	117	Muhammad Iqbal	0300-7936754
8	GPS Kund Wala Kehror Pacca	Primary Male	X: Y:	76	Muhammad Saddiq	0300-6817217
9	GPS Dera Mahroo Kehror Pacca	Primary Male	X: Y:	106	Mureed Abbas	0302-6859149
10	GPS Jhok Aheer Kehror Pacca	Primary Male	X: Y:	71	Muhammad Iqbal	0300-6876353
11	GES Chatala Lodhran	Primary Male	X: Y:	150	Sarfraz Ahmad	0332-7064902
12	GPS Hayyat Pur Lodhran	Primary Male	X: Y:	70	Intzar Ali	0301-3636225
13	GGPS Toki sikandar Lodhran	Primary Female	X: Y:	135	Fouzia Adeeb	0307-0970779
14	GGPS Jhok Ahir Ldohran	Primary Female	X: Y:	70	Khalida Parveen	0302-5682999

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
15	GGPS Mahesh Wala Lodhran	Primary Female	X: Y:	142	Mahjabeen	0306-9686282
16	GGPS Jhok Janan Lodhran	Primary Female	X: Y:	262	Nazia Yameen	0308-3312627
17	GGPS Dera Mehroo Kehror Pacca	Primary Female	X: Y:	66	Nasreen Fatima	0300-4136797
18	GGPS Tibbi Waddan kehror Pacca	Primary Female	X: Y:	75	Sumran	0302-6503943
19	GGPS Kund Ahmad Asar Kehror Pacca	Primary Female	X: Y:	80	Sofia Tabbsum	0302-9008991
20			X: Y:			
21			X: Y:			
22			X: Y:			
23			X: Y:			
24			X: Y:			
25			X: Y:			
26			X: Y:			
27			X: Y:			
28			X: Y:			

ANNEX V: LIST OF INDUSTRIES WITH THEIR RISK LEVEL

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
1			X: Y:				
2			X: Y:				
3			X: Y:				
4			X: Y:				
5			X: Y:				
6			X: Y:				
7			X: Y:				
8			X: Y:				
9			X: Y:				
10			X: Y:				
11			X: Y:				
12			X: Y:				
13			X: Y:				
14			X: Y:				
15			X: Y:				
16			X: Y:				
17			X:				

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
			Y:				
18			X: Y:				
19			X: Y:				
20			X: Y:				

ANNEX VI: LIST OF NGO WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Social service committee Riaz Abad colony Dhanot Teh: K/Pacca	Local	Lodhran District	Education(ENF) School	Muhammad Sadiq Naich	0345-8792932
2	Anjuman Falah Mushara 97/M Adam Wahin Lodhran	-do-	-do-	Vocational Center	Muhammad Bilal Kalyar Muhammad Khalid	0322-6838396 0300-6830951
3	Citizen School Welfare Socioty Lodhran	-do-	-do-	Lodhran School (LPS)	Assistant Commissioner Principal	0608-9200136
4	Anjuman Falah Behbood Dunyapur	-do-	-do-	Dunyapur Public School (DPS)	Assistant Commissioner Principal	Nil
5	Young welfare society Dhanot Kehror Pacca	-do-	-do-	Vocational Center Young Health Center, Ambulance Service	Dr Shoukat Ali Ijaz Malik	0300-7801532 0608-532132
6	Serani welfare society Khursheed Colony Dhanoot K/Pacca	-do-	-do-	Vocational Center	Noor Muhammad Naseem Akhtar	0608-532338 0301-7751192
7	Public welfare Orgnization 386/WB Dunyapur	-do-	-do-	Public-Awareness	Hakeem Muhammad Asaif Shahbaz Awan	0300-6811297 0300-4912900
8	Al-Falah 100/M Lodhran			Vocational Center	Nasir Abbas	0300-6853212
9	Christian Farmer Development Orgnization 26/M Dunyapur			Public-Awareness	Jakub Aftab Aftab Javid	0300-7810085
10	Kissan sanjh Ward No 17Basti Noor Peer Dunyapur			Education School (NEF)	Hafeez Choudhary	0301-7770784
11	Awaz			Public Awareness	Muhammad	0301-

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.
	Development Orgnization Chack No 31/M Dunyapur				Sajid	7792091
12	Al-Sadeeq Welfare Society Mouza Ali Pur kanju K/Pacca			Education public School	Malik Abid Saddique	0300- 4772680
13	Ithad Young Welfare Society Bakshi wala K/ Pacca			(NEF)	Nasir Ali	0345- 8707743
14	Al-Raheem Development Orgnization basti Mohrian wala Dhanoot K/Pacca			Vocational Center	Allah Ditta Anjum Sheikh Abdul Qayyum	0300-7812152
15	Al-Momina Women welfare Society Jala Arain near Telephone exchange Dunyapur			Vocational Center	Saima Yaseen saima Faiz	0341-4741303
16	United Human right Lodhran			Vocational Center	Zafar Bukahari	0301- 7756007
17	Nashiman Development Orgnization Ward No 5/9 Dunyapur			Vocational Center	Mah Jabian	0301- 7518696
18	Plan Public Welfare orgnization 15/M Dunyapur			Vocational Center	Waris Ali	0302- 7440559
19	Al Ghani Development Orgnization Ali Hospital Lodhran			Dispensary	Dr Samina Matloob Rabia Haroon	0304- 2599997
20	Al Mahfooz Foundation for social welfare and Human Rights			Public Awareness	Haji Muhammad	033-7771777

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.
	Lodhran					
21	Development and empowerment organization 374/wb Dunyapur			Vocationak Center	Malik Fateh Deen	0300-8866374
22	Human Rights Welfare organization 344/WB Dunyapur			Public-Awareness	Muhammad Amin	0345-6810261
23	School Welfare Orgnization 321/Wb Duniapur			Public Awareness	Muhammad Khalid	0345-7297321
24	Ithad welfare Society Jaladi wahin K/Pacca			Vocational Center	Niaz Ahmad Asma Ayub	0300-6547316 0305-7587185
25	Al-madina Welfare Society Ada Parmat Lodhran			Vocational Center	Azmat Ali Sha	0344-7137602
26	Tameer Development Welfare organization Khan Pur Tehsil Lodhran			Public Awareness	Rab Nawaz Bhatti Mohammad Akhtar	0300-9689420
27	Better Farmer Orgnization Near Abeida Cotton Factory Kehrur Pacca			Farmer/Training Public Awareness	Rana Babar Ali Majid Tasleem	0345-8280454 0300-6847291

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Dr.Javid Ahmad	0608-9200121	0608-9200130	0300-6461115
2	Commissioner	Rtd.Capt: Asad Ullah Khan	061-9200048	061-9200068	
3	RPO	Tariq Masood Yaseen	061-9200861	061-9200424	
4	DCO	M.Shahid Niaz	0608-9200066	0608-9200200	0304-0920088
5	DPO	Asad Sarfraz Khan	0608-9200062		0345-4624444
6	ADC	Dr.Javid Ahmad	0608-9200121	0608-9200130	0300-6461115
7	DEO Rescue 1122	Dr.Syed Majid Ahmad	0608-3610222		0321-6807524
8	DO Civil Defence	Fareeha Jafir	0608-9200036		0334-6654082
9	SNA	Rao Mohammad Nasir	0608-9200211		0300-4903090
10	AC -	Mohmmad Tayyab Khan	0608-9200145		
11	AC -	Vacant	0608-342555		
12	AC -	Asif Hayat Lodhi	0608-304077		0300-9686819
13	AC -				
14	AC -				
15	AC -				
16	Tehsildar -	Amir Mujtaba Khan(Lodhran)			
17	Tehsildar -	Faqeer Altaf Hussain Nasir(Duniapur)			0300-0700102
18	Tehsildar -	Liaqat Hussain Shah (Kehror pacca)			0300-7926116
19	Tehsildar -				
20	Tehsildar -				
21	Tehsildar -				
22	TMO -	Mohammad Shafique(Lodhran)	9200055		0300-9680132
23	TMO -	Rao Mohammad Ali (Duniapur)	304708		0302-7466294

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
24	TMO -	Pervaiz Akhtar (kehror Pacca)	341159		0335-4750553
25	TMO -				
26	TMO -				
27	TMO -				
28	EDO Education	Ghulam Nazik Shahzad	921138		0300-6884074
29	EDO Irrigation	Mohammad Yaseen	9200174		0333-7638416
30	Chief Engrn. Irrigation	Riaz Rasaheed	061-9200144		0333-4222519
31	EDO C & W	Ghulam Dastgeer	9200110		0300-8696157
32	EDO Community Development	Ch. Ishtiaq Javed	9200080		0300-6327919
33	EDO Agriculture	Mohammad Gulzar khilji	921042		0306-6857728
34	EDO Health	Dr. Abdul Aziz Khalid	361605 361386		0314-3434338
35	DMO	Muzamil Bashir	921085		0333-6032588
36	Incharge DHQ Hospital	Dr. Zahid Akhtar	362488		0333-6226789
37	Veterinary Officer				
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
53					
54					
55					
56					
57					
58					
59					

ANNEX VIII: LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Faria Iqbal	36202-5212232-2	Basic Health unit Dhanote	03084762819	A+	
2	Asif Akram	36203-9014376-3	Muhalla Memodabad ward no.6 Lodhran	03077677150	O+	
3	M Dilshad	36203-7702230-9	Basti Karamat Wala Lodhran	03068399331	O+	
4	Muhammad Fiaz	36203-4592228-5	Mouza Chatti Post office hawali Nasir Khan Lodhran	03074064086	O+	
5	Munawar Hussain	36203-4792608-3	Mahlla Sofi Nazzar Wala Ward no.25 Lodhran	03006806915	A+	
6	Muhammad Shahbaz	36201-2313351-5	Adda Pur Bazari Chak no.35/M Tehsil Dunyapur	03017430852	B+	
7	Ghulam Sarwar	36201-0564763-5	Chak no.344/WB Dunyapur	03012317408	O+	
8	Muhammad Rabnawaz	36201-2313351-5	Basti Mouza Durhatta Lodhran	03078583353	O+	
9	Hassan Jahnzab	36203-6950679-7	Ward no.19 Lodhran	03026565769	O+	
10	Yasir Ali	36203-8636250-5	Mahalla mehmodabad Block no.6 Lodhran	03017457745	B+	
11	M Raheel	36203-3841387-9	Shokat Abad Sikandar Wala Lodhran	03082678949	B+	
12	M Sabir	36203-2925517-7	Mouza Hussain Abad Lodhran	03084330812	O+	
13	Abdul Rehman Wahid	36203-0483106-5	Ward No.25 Shora Mandi Lodhran	03043756354	A+	
14	M Imran Jameel	36203-8818937-3	Ward No.13 House No.533 Lodhran	03026565769	O+	
15	M Samim Shahzad	36202-9853789-5	Ward No.8 Tehsil Kehror Pacca	03002531464	B+	
16	Muhammad Asif	30203-8968567-1	Basti Arbi Lodhran	03427177813	A+	
17	M Irfan Nawaz	36203-2352458-7	Miran pur Lodhran	03225847989	A+	
18	Abdul Hameed	36203-	Miran Pur Lodhran	03462257798	O+	

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
		7505007-9				
19	M Ashgar	36203-5357066-3	Mehra Abad Lodhran	03067733140	O+	
20	M Amin	36203-1998326-1	Basti Gharib Abad Lodhran	03448529756	A+	
21	M Zahid	36203-8086527-1	Miran Pur Lodhran	03454507346	A+	
22	Qamar Hassan	36203-1762785-5	Adam Wahin Lodhran	03027765131	B+	
23	Hafiz Muneer Ahmad	36203-7584770-5	Basti Sikandar Lodhran	03039456345	O+	
24	Fazal Ilahi	36203-1815803-3	Chak no.94/M Lodhran	03067778086	O+	
25	M Sarfraz	36203-1373385-1	Mian Pur Matam Lodhran	03447385627	O+	
26	M Ajmal	36203-2388974-3	Lali wahin Lodhran	03084247048	A-	
27	Abid Ali	36201-2323866-3	Chak no.36/M Dunyapur	03087591836	B-	
28	Naseer Ahmad	36203-4617594-7	Qureshi Wala Post office Dawran Lodhran	03052892110	O-	
29	Muhammad Waseem	36203-5179774-3	Basti Safar Wala Malik pur Post office Qureshi Wala Lodhran	03037412248	O+	
30	Shahzad Hassan	36203-6175668-3	Basti Islamia Muhammadi Mian Pur matam Post office miran pur Lodhran	03067733140	O+	

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

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

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

UC Level

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
1	Lodhran	Thathee Sameja No. 09	Mian Noor Muhammad	0300-9681280	Khan Shameer Khan	0301-8686733
2		Kamal Pur Jatial No. 08	Malik Muhammad Afzal Jatial	0300-8811511	Muhammad Aslam Dona	0301-6593526
3		Kondi No. 24	Riaz Hussain Khan	0300-6825973	Malik Muhammad Tahir Chanar	0346-2955884
4		Summera No. 17	Muhammad Asghar Shah Gillani	0300-4300434	Malik Ghulam Farid Araian	0311-6840143
5		Chak Himta No. 06	Waqar Akram	0344-7020958	Khizar Hayat	0300-7816997
6		Miran Pur No. 05	Muhammad Ishfaq Wahocha	0300-7806768	Rao Shakeel Ahmed	0346-8789462
7		Raja Pur No. 07	Syed Hashim Raza Shah	0300-6849384	Muhammad Hafeez Nawaz	0300-6858790
8		Bhutteji	Malik Arslam	0300-3552222	Malik Tailb	0300-

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
			Nawaz Bhutta		Hussain saho	6812203
9		Khanwah Ghalwan	Khan Jamshaid Khan Ghallo	0304-0106652	Malik Muhammad Habib Gaj	0300-6812308
10		Chamb Kulyar	Mian Muhammad Zishan Jhandir	0300-8780011	Malik Ashiq Muhammad Kulyar	0300-6803916
11		Qureshi Wala	Malik Ghulam Nazik Ghallo	0300-6817136	Malik Mukhtar Hussain Sh.	0300-7802931
12		Gogran	Syed Eallao-ud-Din shah	0300-6825823	Abdul Jabbar	0301-7729350
13		Sher Pur	Muhammad Tariq Malik	0300-6842670	Rao Muhammad Afzal	0300-6806533
14		Wahi Salamat ray	Malik Saeed Ahmed	03458791227	Hashmat Ali Shah	0345-8791174
15		Saduallah Pur	Farooq Ahmed Khan	0345-9149999	Muhammad Sharif	0300-6848711
16		Salsader	Adnan Khan Joyia	0300-9683207	Nazir Ahmed Dogar	0300-6848664
17		Wahi imam Bakhsh	Syed Arshad Ali Shah	0300-6823427	Hazoor Bakhsh	0300-6856607
18		Rawani	Mian Muhammad kamil	0345-7343941	Naseer Ahmed Gujjar	0302-7777842
19		Lahori	Malik Muhammad Aslam	0300-6333795	Ch. Muhammad Inaam	0344-6438677
20		Juanglat No. 2	Mehboob Khan	0347-4299953	Nazakat Ali	0343-7124917
21		Sagwan	Nazir Ahmed Khan	0342-7319193	Ch. Muhammad Arshad	0300-6849337
22		Kotha Utehra	Muhammad Asif khan	0300-6851600	Muhammad Akbar	0301-7705354
23		Danwran	Saeed Ahmed Danwar	0300-9684212	Malik Muhammad Yaousaf	0303-8412563
24		Dera Jand	Muhammad Iqbal Khan	0300-8780544	Muhammad Afzal Pahor	0300-4638339
25		Adam Wahin	Mian Abdul rehman	0300-6846325	Muhammad Yaqoob	033-6827482
26		Doran Wala	Muhammad	0321-7200005	Ahmed	0301-

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
			Amir Mangla		Naveed Chanar	7785589
27	Kehror Pacca	Choki Masti Khan No. 50	Zahid iqbal balouch	0345-5456000	Mushtaq Ahmed balouch	0302-7774693
28		Ameer Pur Sadat No. 51	Syed nadeem Abbas Bukhari	0301-8779777	Rana Khalil Ahmed	0302-8777015
29		Ali Pur Kanju No. 52	Sohail khurshid Khan Kanju	0321-3501111	Rana Muhammad tasawar	0300-6839861
30		Rind Jada No. 53	Sardar Ashiq Hussain Khan Balouch	0300-7805409	Tahir Khan balouch	0333-6425047
31		Gahi Mamrah No. 54	Rana Muhammad Ilyas	0300-6845144	Haji RabnwaZ	0345-6803457
32		Burhan Pur No. 55	Zubair Khurshid khan kanju	0333-6101002	Rana Azxmat Ali	0306-7766466
33		Dhakna Gharu No. 56	Mian Munawar Hussain Khudai	0300-6340369	Rana Zeshan Ali Noon	0301-8787828
34		Mari Bhago Khan	Malik Shah Muhammad joyia	0300-6364717	Rana Muhammad tahir Noon	0300-9888142
35		Chelay Wahin No. 58	Malik Ahmed Nawaz Sh.	0300-7373737	Irfan Shabir	0302-7459470
36		Rana Wahin No. 59	Mian Rajan Sultan pirzada	0300-8689001	Kashif Khan Pathan	0301-7587777
37		Masa Kotha No. 60	Haqnawaz Khan Joyia	0300-8741272	Mian Abdul Khaliq Sukhera	0307-6848125
38		Farid Abad No. 61	Rana Adnan Masood Kanju	0300-9685029	Abdul Sattar Shah	0300-6858624
39		Kehror No. 62	Sh. Haji Muhammad Aslam	0300-5003322	Hafiz Allah Bakhsh	0300-6191823
40		Tibbi Waddan No. 63	Malik Muhammad Ameer Fiaz Wad	0300-8688870	Malik Gul Mohammad Shahid	0301-7750480
41		Shah Pur Phool 64	Malik Khizar Hayat Bohar	0300-6822168	Haji AllahRakkah Arain	0300-6168471
42		Bahawalghar 65	Choudhray MNohammad Aslam Meo	0300-7164245	Hafiz Manzoaor Ahmad	0301-5799835

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
43		Naseer Ud Wahin 66	Allah Ba chaya Khan langha	0300-9639588	Malik Mohammad Aslam Tragar	0300-6791596
44		Raja pur 67	Nawab Abdul rehan Khan	0301-7776079	Hafiz Abdul Majeed	0301-5385740
45		Jamrni Wah68	Rana Sajj Hussin Utra	0300-7922269	Choudhry Muhammad Aslam	0300-6806840
46		Dhanoot 69	Main Wali Mohammad Jabla Qureshi	0305-7934500	Rana Abid Ali	0300-6847005

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)
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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
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P3: Injurd Person Reposrting Performa

District: _____

Date: _____

S#	Name of injured	Father's name	Address	Domicile	Gender	Age	CNIC	Cause of injury	Date of injury	Injury Type (Permanent or Temporary)	Compensation Paid or not
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P4: Cattle Head Perished

District: _____

Date: _____

S#	Name of Farmer	Father Name	CNIC	Mauza	Tehsil	Type of Animals	Number of Animals (Cow, sheep etc.)	Vaccinated/ Unvaccinated	Witness 1 name and contact No.	Witness 2 Name and Contact No.
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P5: Crop Damages

District: _____

Date: _____

S#	Tehsil	Qanoongoi	Union Council	Mauza	Farmer Name	Land owner/Tenant	CNIC of farmer	Contact number	Type of Crops	Total land affected (acres)	% of mauza affected
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P6: Relief Distribution Tracking 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
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P7: Private Machinery (Boats, Bulldozers, cranes etc.)

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

District: _____

Date: _____

S#	Name of boat owner	Father name	Contact Number	Age	CNIC	Location of boat/Machinery	Type of Machinery (Boat, Bulldozers, Cranes etc.)	Engine type	Boat capacity	Equipment Condition	Number of Machinery
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P8: Relief camp registration 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
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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
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ANNEX XII: CAMP MANAGEMENT SOPS

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

Land	3.0-4.5 square meter per person
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.