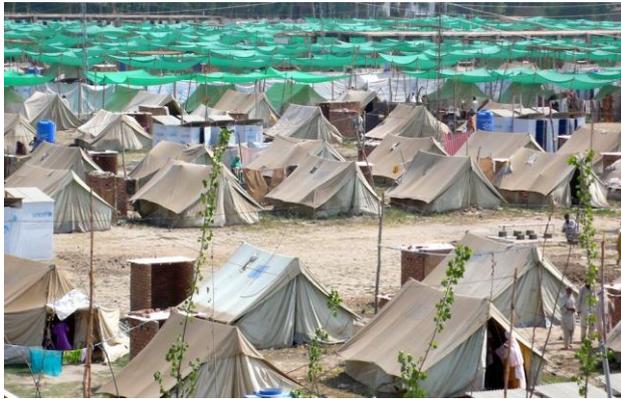


DISTRICT DISASTER MANAGEMENT PLAN 2020

Division: Bahawalpur

District: Rahim Yar Khan



IDP Camp in 2009



Sehja Bus Drowning Incident 2009



Floods in 2015



Fire incident at Lahori Gate, Lahore – Jan 2020

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Hill Torrent

Estimated number of people at risk of **hill torrent** in 2020



Risk: Low

Floods

Estimated number of people at risk of Floods in 2020



Risk: Medium

Earthquack

Estimated number of people at risk of earthquake in 2020



Risk: Low

Epidemic

Estimated number of people at risk of epidemic in 2020



Risk: Medium

EXECUTIVE SUMMARY

This Disaster Management Plan has been developed on the template provided by the PDMA Punjab. It is designed for comprehensive disaster management within the district. It focuses on minimizing the effects of the hazards on local communities by ensuring the coordinated effort in risk management within the community.

This plan has been designed around the Risk Management Standard, engaging the philosophy of a multi-agency, multi-sector approach to risk minimization. The plan indentifies the risk environment for the district Rahim Yar Khan and outlines the key institutional and programming components relative to effective risk management and emergency response and recovery.

The plan is designed to enhance the capacity of all agencies to more effectively plan for and respond to emergency situations. This is achieved through the combined processes of risk analysis, which provides a more realistic base of information upon which operational procedures take place.

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	4,814,006 (2017)
2.	No. of Tehsils	4
3.	No. of UCs	139
4.	No. of Revenue Estates	1150
5.	Population Density (people per km ²)	264.4
6.	Family Size	7.5
7.	Pop Growth Rate	3.1
8.	PCI	
9.	District GDP/Annual Income	
10.	Poverty Rate	40-50
11.	Patient/Doctor Ratio	
12.	AMR	
13.	IMR	
14.	MMR	
15.	Literacy Rate	38
16.	Global Acute Malnutrition (GAM) rate	
17.	Severe Acute Malnutrition (SAM) rate	
18.	Percentage of population having access to clean drinking water	
19.	Annual Crime	

Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (Transgender)
4,814,006 (2017)	2,467,840	2,345,938			228

Source/Note: Click here to enter text.

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

Source/Note: Click here to enter text.

Area (in acres)

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
11880	1,495,212		

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
38%	%	%	%	%	%	%

Source/Note: Click here to enter text.

Government Schools

		Schools	Enrollment
Total/ Overall		3,006	573,146
Boys	Primary	1011	162522
	Middle	188	6111
	High	138	90547
Girls	Primary	1199	132711
	Middle	186	48188
	High	96	63617
Higher Secondary	Boys	11	12933
	Girls	13	18200
sMosque	Boys	186	9459
	Girls	2	4991

Private Schools

		Schools	Enrollment
Total/ Overall		1145	
Boys, Girls & Co-Education	Primary	249	
	Middle	485	
	High	329	
	Higher Secondary	82	

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional (Medical)	Technical	Commerce	Total
No of Institution	45	3	1	4	6	59
No of Students						

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	187	3	1		191
Annual OPDs					
No of beds					
Doctors Available					
Paramedical staff					
Ambulances available					
Mobile Medical Units					

Livestock: Small Animals (goats, sheep etc.): **1211795** Big Animals (cows, buffalos, camel etc.): **1355062**

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
%	%	%	%	%	%	%	%	%	%	%

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	2010	394,772	8	123	60,874	33,800	2070 million	240 km roads
2	2013	9,858	0	89	337	220	1,16,55,000/-	
3	2014	7,101	3	33	40	0	48,00,000/-	
4	2015	64,376	1	82	0	146	500,000/-	

5	2017	400	2	0	0	146	
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Disaster History – Other disasters (since 1970)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	2012	Rains	16456	19	67 Revenue Estates were affected, 88059 Acre area was affected due to heavy rains in District Rahimyarkhan.

General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Rahimyarkhan is bounded in the north by Muzaffargarh District, in the east by Bahawalpur District, in the south by Jasimirmir (India) and Ghotki District of Sindh Province and in the west by Rajanpur District.
Topographical Features	The District lies between 270-40' to 290-16' north latitude and 600-45' to 700-01' east longitude.
Weather/Climate pattern	District Rahimyarkhan has a very hot and dry climate in summer. The maximum temperature touches 49.7C. The minimum temperature recorded is 6.8C. The annual rainfall in the District is 165 mm.
Major Rivers	Indus River is the major river touches the whole western border of the district. There are no barrages in the District Rahimyarkhan.
Major Nullahs / Streams	Indus River's border is 100 km which is passing through four Tehsils Liaquatpur, Khanpur Rahimyarkhan & Sadiqabad of District Rahimyarkhan. Panjnad Canal and Abbasia Canals are main canals that are originating from Indus Rivers.
Motorway/Highway	Vulnerable points of motorway/highway The District has a total metalled Road length on 3200 Kilometers. The District is linked with Bahawalpur, Sukkar and Muzaffargarh Districts through metted road. However, there are no vulnerable points of motorway/ highway.
Railways	The main Peshawar-Karachi Railway Line passes through District Rahimyarkhan. The District is linked with Bahawalpur and Sukkar through Railway Network. There is no vulnerable point of Railway in the District Rahimyarkhan.
Geological features	There are no fault line and mountain areas in District Rahimyarkhan.

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
Sikrani Bund	12.8	Liaquatpur	Khanpur	Mud Ranjha
Minchin Bund	101.3	Khanpur	Rahimyarkhan	Chachran Sharif & Samooka
Extension Minchin Bund	62.7	Rahimyarkhan	Sadiqabad	Bannu da Hut
Machka Dilawara Bund	12.2	Sadiqabad	Ghotki (Sindh)	Bangla Dilkusha & Bhong

Breaching Section

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

		X:					
		Y:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
RYK-1 Gulshan Usman	132 KV	X:28.424287 Y: 70.282542	RYK-2 Sultan Pur	132 KV	X:28.445968 Y: 70.360638
Khanpur	132 KV	X:28.626970 Y: 70.624136	M.W Qureshian	132 KV	X:28.749112 Y: 70.465610
Liaquatpur-1 Chak No. 20/P	132 KV	X:28.9297387 Y: 70.9694028	Liaquatpur-2 Feroza	132 KV	
Liaquatpur-3 Khan Bela	132 KV	X:28.9525666 Y: 70.7250779	Sadiqabad-1 Sattellite Town	132 KV	X:28.320072 Y: 70.126444
Sadiqabad-2 Jamal Din Wali	132 KV	X:28.499465 Y: 70.055393	Sadiqabad-3 NawazAbad	132 KV	

Airport / Landing Strips

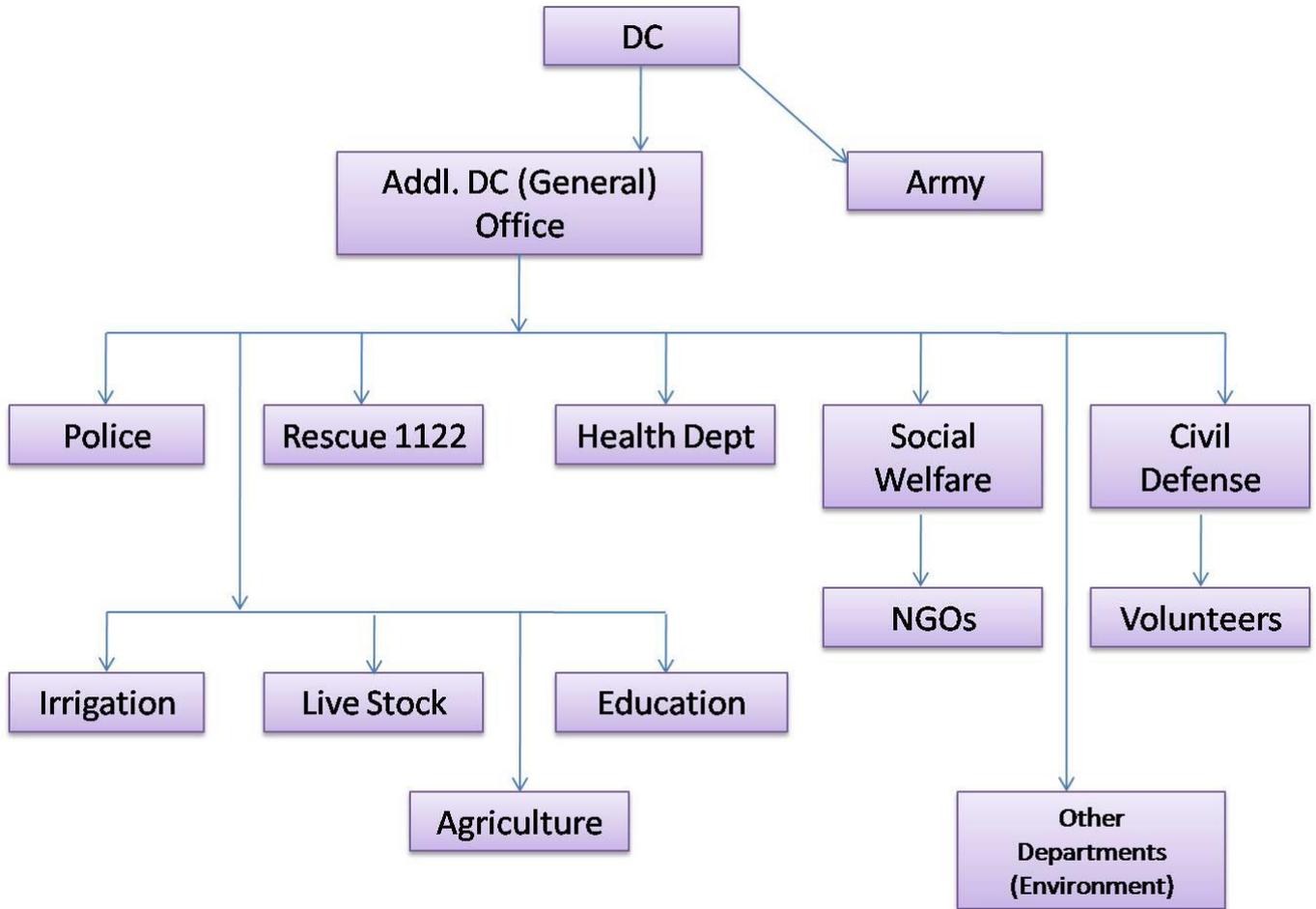
Type	Area Name	GPS Coordinates
International Airport	Sheikh Zayed Internationa Airport Nearby Basti Nooray Wali	28.3925922 70.286721

Govt. storage facilities/warehouses in the district

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

COORDINATION MECHANISM

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



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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

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

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

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

Checklist for Revenue Department:

- Survey of entire District (Preparation of Village level information by Patwari)
- Identification of Low lying, medium and high: vulnerability levels with flood level
- Liaison of Patwari with Numberdars of their respective villages
- Contacts of all revenue staff posted near river belts and their output in 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

Metropolitan / Municipal Corporations

Municipal / Town Committees

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

- Local Bodies employ de-watering sets to remove excess water. All Local Bodies are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The Local Bodies maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- Local Bodies should ensure supply of clean drinking in overhead reservoirs and ensure supply to the affected areas or relief camps through water bowsers. Clean drinking water is a major issue and requirement during any disaster.
- In case of any disaster that requires people to be relocated, the Local Bodies under the concerned Administrator i.e Commissioner / DC/AC will assist in the migration of the affected people.
- During the relief effort and subsequent rehabilitation effort the Local Bodies manpower can be effectively used for the distribution of food and essential commodities among evacuated people or any other relief activity such as provision of cash compensation.

District Disaster Management Authority (DDMA)

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

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

- District Administrations must establish a Disaster / Flood control room at the DC's office, the numbers of which will be circulated to all concerned. The Disaster / Flood Control Room has to maintain updated information regarding the threat of disaster and statistics post disaster. The center will maintain a regular communication with the Flood Forecasting Division or the dam authorities up stream in case of a flood.
- The District Administration would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Administrations will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
- Executive District Officer (Health) will ensure the availability of adequate medicines for treatment of common issues, particularly for snake and dog bite cases and general vaccines at each relief camp.
- DO (Agriculture) and DO Livestock would arrange fodder and feed supplement for livestock and animals displaced.
- District Regional Transport Authorities (DRTA) in all 36 districts of Punjab are managed by Secretaries who would coordinate with local transporters to arrange for arranging transport required for evacuation of people from affected areas. In case of shortfall in transport in a particular district, the adjoining district would mobilize the transporters in his district to assist with the evacuation of people.

Role of Rescue 1122 in districts during disaster

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

Pre-disaster Check list for DDMA

- Meeting of DDMA held
- Identification of vulnerable areas
- Identification of Safe places

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

Disaster Emergency Control Room (functions and responsibilities)

1. Coordination among all agencies.
2. Hub of communication during disasters to deal the disaster more effectively and efficiently.
3. Collection of all relevant data from all supporting agencies.
4. Issuance of disaster reports on the basis of the collected data during the disaster.

Checklist for Control Room:

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

Checklist for Relief Camp Incharge:

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

Role of Health Department

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

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

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

- To provide first aid to the injured people and arrange evacuation of patients for further assistance.
- Medical camps and mobile health teams should be arranged for prevention and control of communicable diseases, immunization and provision of essential drugs.
- Health department would make a roster of all medical officers and paramedics that would be deployed to these camps and teams.
- Drugs and other medical equipment should be available at all these camps and with mobile teams. The medicine should be for relevant flood related issues, **particularly Anti-snake venom, Anti-rabies.**
- The shelters or relief camps established by the district administration should have medical centers with ambulances and special facilities for women and children.
- An emergency control room will be established in the office of Directorate General Health Services and a representative of this emergency control room would be designated to PDMA's control room.
- A list of essential medicines would be prepared by the Health department and it would ensure that medicines and other resources are present in sufficient stocks in hospitals in disaster hit areas.
- Medical colleges may be involved to create Emergency Response teams
- Health department would also coordinate with international organizations such as WHO and UNICEF.
- Extensive disease surveillances in the disaster hit areas should be carried out warnings if needed be issued through the Disease Early Warning System.
- Medical teams and paramedic staff should be mobilized and deployed for rapid assessment and quick response in the affected areas.
- A contingency plan will be prepared and submitted regarding preparedness for any disaster or calamity.
- The National Disaster Management Authority has designated WHO as the key organization that will fill the gaps in the supply of medicines, rapid diagnostic kits, and vaccinations etc.
- The department would employ female health workers in emergency areas specially, for spreading awareness regarding health risks in a disaster and for any vaccination or immunization programme that may be needed during any emergency.
- A Health and Nutrition Cluster for overall management and oversight of Health department's disaster response would be formed at the Directorate General Health office.
- In case the medicine stocks or even the infrastructure is damaged due to floods, the department would draw up a plan for early recovery of health infrastructure and service delivery.

Civil-Military Coordination Mechanism

The Deputy Commissioner office will engage the Army in any disaster requiring the manpower or rescue equipment of the Army. This will happen on the basis of analysis of the magnitude and type of the disaster took place.

Volunteer Network

There are 97 volunteers registered with Civil Defence can be engaged by Civil Defence department in any disaster as per requirement.

RISK ANALYSIS

1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	5	4	20
Urban Flooding	2	2	4
Flash Floods	3	4	12
Hill Torrent			
Glacial Lake Outburst Flood (GLOF)			
Landslide			
Tornado			
Earthquake	1	1	1
Drought	3	3	9
Epidemic	3	3	9
Fire Incidents	3	3	9
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	3	3	9
Environmental Hazards (industrial accidents, severe pollution etc.)	2	2	4

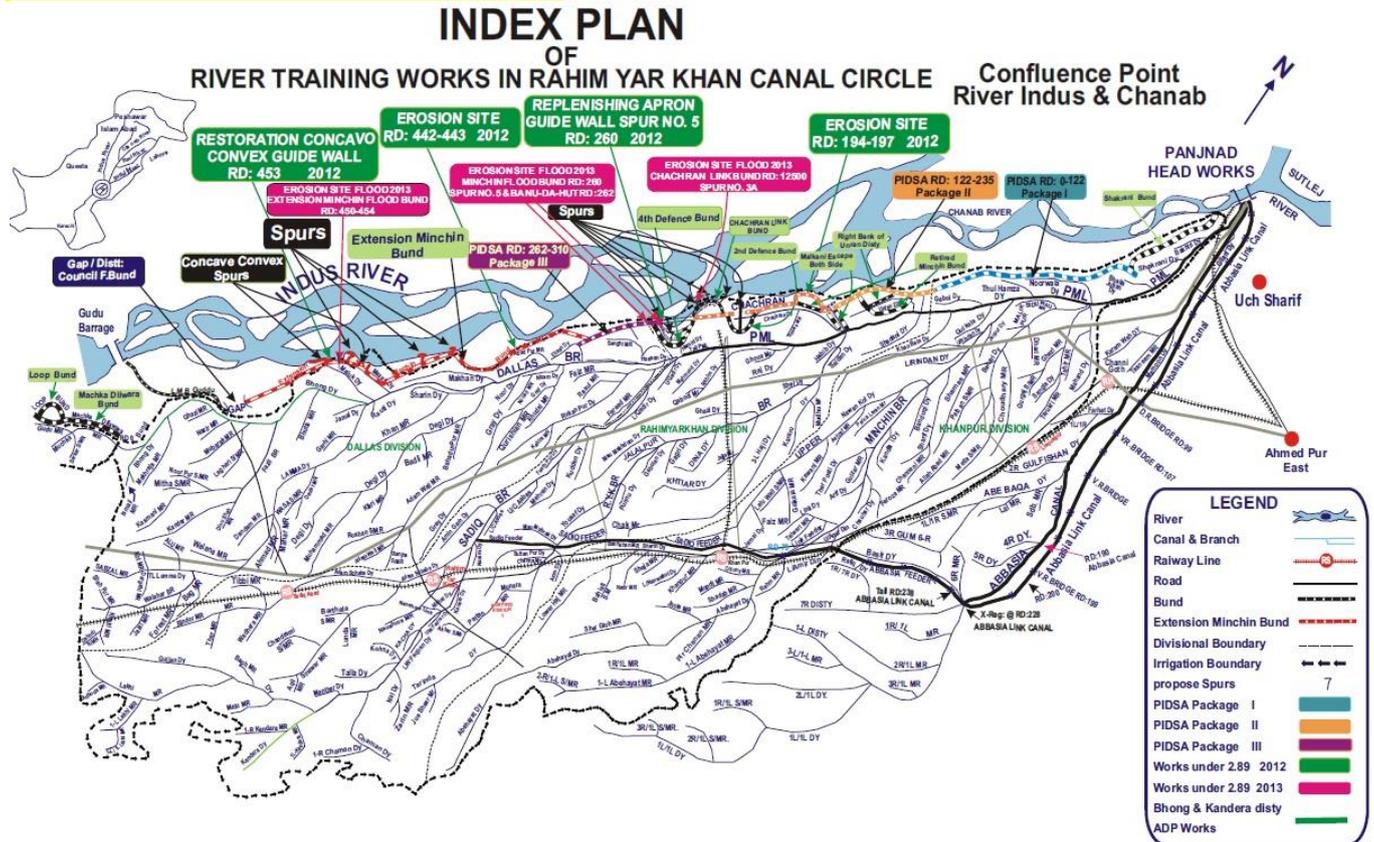
Risk = Impact x Likelihood

Low : 1-7
 Medium : 8-14
 High : 15-25

2. Hazards

1. The main hazard to the district Rahim Yar Khan is from floods due to high level of water in the Indus River touching almost 120 kilometers long western border of the district.
2. During Monsoon season of 2010 floods in the Indus river affected thousands of square kilometers of all four tehsils.
3. After that the floods in 2013 also hit the same areas of the district which resulted a huge damage to the livelihood of the adjoining villages, towns and revenue estates of the district.

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



Source:

3. Response & Operational Capacity

1. The main capacity of the district for handling any disaster is the Rescue 1122 department which has been declared Punjab Disaster Response Force by the PDMA.
2. There are almost 250 trained Rescuers with the Rescue 1122 who can handle drowning emergencies, fire incidents, road traffic accidents, other major incidents and disasters like floods, environmental disaster, building collapse etc.
3. Another main capacity of the district is the police department. The police staff deputed in any disaster is the key element for the evacuation of the victims to the safe places/ relief camps. The police department is also responsible for provision of security to staff of other agencies working in the disaster area.
4. Civil Defense with large number of its volunteers is another strong capacity of the district during the disaster.
5. Health department is responsible for providing first aid facility to victims alongwith the Rescue 1122.
6. Education department provides the buildings of schools situated in the disaster areas for relief camps.
7. Irrigation department with its heavy machinery & equipment provides the service of strengthening of embankments, construction of usable routs within flooded areas and it continuously keeps any eye on the water level in rivers and canals.
8. Revenue department with other government departments look after the provision of food, drinking water etc to the victims and for the assessment of damages resulted by the disaster to the disaster prone areas.

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	34	34	0	0
OBM	34	31	3	20
De-watering sets	38	38	0	20
Navigators				
GIS devices				
Life Jackets	326	326	0	0
Life Ring	27	27	0	0
Life Lines	8	8	0	0
Scuba diving suit with complete accessories	4	0	4	4
First Aid Kits				
Rescue Bag	30	30	0	0
Safety Harnesses	10	10	0	0
Ambulances	37	37	0	0
Fire Brigade	7	7	0	0
Water Tanks / Bouzers	4	4	0	0
Extendable Ladders	9	9	0	0
Hydraulic Cutter	4	4	0	0
Sonar Rader				
Jumping Sheet				
Dumpers	18	18	0	0
Excavators	5	5	0	0
Cranes				
Bulldozer	15	15	0	0
Boat Carrier/Trolleys	3	3	0	0
Pickups/Jeeps/4x4 vehicles/Mini Trucks	15	15	0	0
Searchlight	49	49	0	0
Tent	3850	3850	0	0
Mosquito Net	1700	1700	0	0
Plastic Mat	500	500	0	0
Blanket				
Generator Sets (All Types)	8	8	0	0
Gas-Cutters	4	4	0	0
Sonar Radars				
Navigator/GPS Tracker				
Hydraulic Cutter	4	4	0	0
Floating Rope	14	14	0	0
Life Bouys	100	100	0	0
Water Rescue Van	1	1	0	0
Portable Generator with Lights	1	1	0	0
Radio Set with Charger	15	15	0	0
Sludge / Dry Suit	3	3	0	0
Oars	82	82	0	0
Batteries of Boat Tracking Devices	34	0	34	34
Walkie Talkies	74	74	0	0
Tractor/ Trolley	40/19	40/19	0	0

5.Gaps and Constraints

1. Rescue 1122 department has been declared Punjab Disaster Response Force by the PDMA have almost 250 trained Rescuers who can handle drowning emergencies, fire incidents, road traffic accidents, other major incidents and disasters like floods, environmental disaster, building collapse etc. These rescuers are designated as EMTs, Fire Rescuers, DERT (Disaster Emergency Response Technician) Rescuers, Drivers and other administrative staff. Dedicated water rescue staff is strongly required in the district so that in case of water rescue operation, other operations of the service in the district could not be affected.
2. There is a communication of gap between departments regarding exchange of data during rescue operation of the disaster. It must be eradicated so that any ambiguity and duplication could not damage the data and important reports by the departments.
3. Logistic means are not available in proper manner for the transportation of staff, boats and other rescue equipment to the diasaster areas. For example: Rescue 1122 is operational in all four tehsils of the district and providing rescue & relief services during flood season every year. The transportation of boats to the flooded areas very important but Rescue 1122 has only one boat carrying trolley which is available with tehsil Rahim Yar Khan. Transportation of boats by other means is damaging the boats.

MITIGATION STRATEGY

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

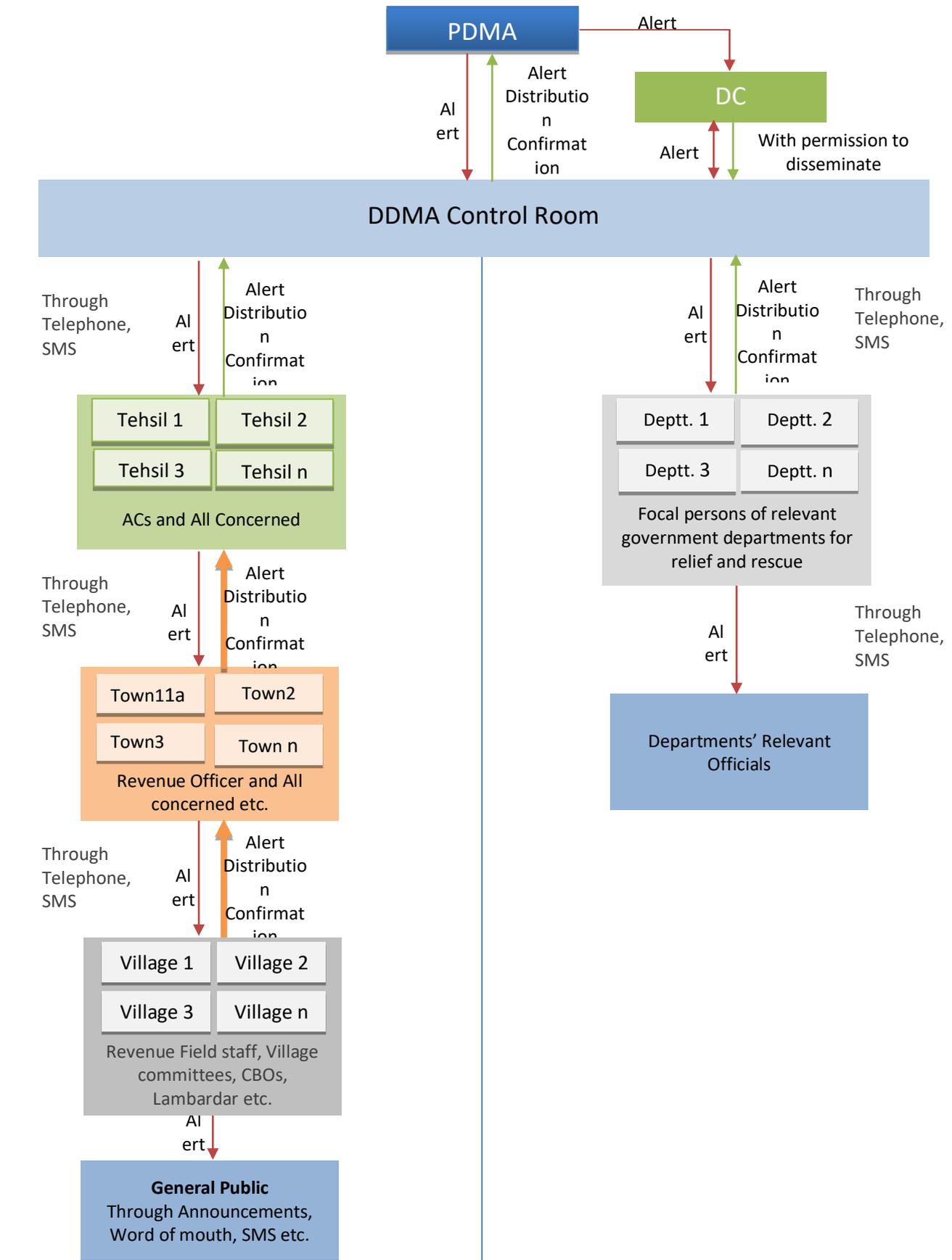
Hazards	Mitigate Actions	Responsible Department
Floods	<ol style="list-style-type: none"> 1. Strengthening of embankment with stone pitching and repair of embankment where local people cut down the embankment for ways or any other purpose. 2. Tree plantation in flood prone areas. 3. Get the people of flood prone areas aware regarding the importance embankment. 4. Construction of embankment where it is still not constructed. 	Irrigation Rescue 1122 Revenue Forest Agriculture
Urban Flooding		
Flash Floods		
Hill Torrent		
Glacial Lake Outburst Flood (GLOF)		
Landslide		

Tornado		
Earthquake		
Drought	<ol style="list-style-type: none"> 1. Sufficient supply of water and food in the drought prone areas. 2. Awareness to people of drought prone areas how to avoid such conditions. 	Irrigation Health
Epidemic	<ol style="list-style-type: none"> 1. Awareness regarding personal and environmental hygiene 2. Quick approach to the health facilities for rapid response and treatment of the diseases accordingly. 3. Relevant medical camps in the prone areas. 	Health
Fire Incidents	<ol style="list-style-type: none"> 1. Giving awareness regarding safety measures to avoid fire incidents in homes, offices factories and other professional places. 2. Implementation of fire laws in all government and private buildings. 	Rescue 1122
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	<ol style="list-style-type: none"> 1. Giving awareness to the people regarding safety measures during traveling on the roads to avoid road traffic accidents. 2. Point out the black spots regarding road traffic accidents and eradication/ elimination of black spots. 3. Construction of buildings according the laws. 4. Making the roads alongside of canals safe by constructing safety walls on the banks and crossing bridges. 	Rescue 1122 Rescue 1122 MCs, Buildings & Highway Deptts

Environmental Hazards (industrial accidents, severe pollution etc.)	<ol style="list-style-type: none">1. Implementation of laws regarding usage of toxic gases.2. Proper leagal action against the culprates.3. Awareness to staff of industries and local people residing around the such industries.	Environment

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 DC 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, LOCAL BODIES 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

Early warning will be communicated via any possible and available means such as announcements in the mosques, mobile announcement teams, patwaris, SMS, print & electronic 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.*
- *All relevant rescue relief agencies such as Rescue 1122, Police, Civil Defense, Environment, Irrigation and other concerned departments will be mobilized and engaged to do the rescue and relief operation in case of any disaster.*
- *All agencies will do their pre-defined jobs according to the plan provided by the local DDMA.*
- *If a disaster requires more manpower and other rescue support, the Deputy Commissioner will request to the local authorities of Pakistan Army.*
- *Camp sites will be identified by the education department at least two months before the flood season.*

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*
1. All departments will report about damage of the disaster related to their respective department to the District Disaster Control Room. The district control room in the supervision of System Network Administrator will prepare the damage assessment reports and will submit to the DC office.
 2. Keeping in view the livelihood of natives in the disaster area the priority based need assessment will be determined by the Revenue department.
 3. Disaster Response Force, Rescue 1122 will provide medical first aid to the victims of the disaster will the collaboration of Health department. The evacuation of victims from disaster areas to the relief camps established by the Revenue and Education departments, will be the responsibility of Rescue 1122 and Police department. Pak army will be called for rescue & relief assistance by the Deputy Commissioner if required.
 4. Assistance regarding livelihood of victims, construction/ repair of damaged houses, medical advice, cattle handling will be provided by the concerned departments as required.
 5. Relief packages will be standardized according to the gender and age wise needs of the victims. Liquid diet for infants, soft diet for aged people and necessary suppliments for pregnant females and ailed persons will be provided. Tent packages will comprise necessary household items e.g. mats, blankets, mosquito nets, necessary crokery (bucket cooking pans) etc.
 6. Social welfare department will depute different NGOs in specific disasterous areas for provision of humanitarian assistance. Each NGO will work in its allocated areas and will not touch the areas assigned to other NGO or working group to avoid any duplication in the collected data.
 7. If relief camps are established, the residents will be provided with drinking water and food in sufficient amount, mobile toilets. Mobile health centers and basic schools for displaced children will also be established within the camps.
 8. The current capacity of manpower, equipment, rescue machinery, boats, provision of food and life saving drugs is not up to the mark.

INDIVIDUAL OPERATIONAL PLANS OF ALL DEPARTMENTS

Sr. No	Department Name	Pre-Disaster Phase Activities	Total Budget Required for Pre-Disaster Activities (Rs.)	Emergency Response Phase Activities	Contingency Budget with Department for Response Activities (Rs.)	Post Disaster Phase Activities
01	Rescue 1122	<ul style="list-style-type: none"> ➤ Meeting of DDMA regarding disaster preparedness. ➤ Preparation of disaster plan. ➤ Mapping of most vulnerable points. ➤ Training of staff and mock exercises. 	1000000/- (for repair of boats & other rescue equipment)	<ul style="list-style-type: none"> ➤ Evacuation of people/boat operation. ➤ Establishment of relief camps & command post. ➤ First aid to the victims. ➤ Installation of tents. ➤ Distribution of food. 	Nil	<ul style="list-style-type: none"> ➤ Preparation of Final report. ➤ Recommendations regarding observations.
02	Environmental Protection Agency RYKhan	<ul style="list-style-type: none"> ➤ Monitoring of industrial units regarding their emission/effluents. ➤ Any violation is proceeded in the Court of Law 	200000/-	Coordination with District Govt. Functionally	200000/-	If required EPA RYKhan will initiate legal proceedings under PEPA-1997 (Amended 2012).
03	Live Stock	<ul style="list-style-type: none"> ➤ Availability of vaccine 	Nil	<ul style="list-style-type: none"> ➤ Prompt vaccination of all animals on flood prone areas 	Sufficient as free vaccine is being provided by Admin Department	Provision of wanda to displaced animals for production enhancement
		<ul style="list-style-type: none"> ➤ Availability of medicines 	2000000/-	<ul style="list-style-type: none"> ➤ Provision of treatment facility 	3000000/-	Provision of treatment
		<ul style="list-style-type: none"> ➤ Provision of dewormer 	2000000/-	<ul style="list-style-type: none"> ➤ Provision of dewormer 	---	Mass deworming campaign for all displaced animals
		<ul style="list-style-type: none"> ➤ Availability of wanda/ fodder 	4000000/-	<ul style="list-style-type: none"> ➤ Provision of wanda 	184000/-	
		<ul style="list-style-type: none"> ➤ Mobility/ POL 	100000/-	---	---	

04	MC RYKhan	➤ Provision of machinery & manpower	10000000/-	➤ Any arrangement as directed by the higher authorities	5000000/-	➤ Rehabilitation of effectees & cleanliness
05	MC Sadqabad	➤ Arrangements regarding flood fighting	20000000/-	---	5000000/-	➤ Removal flood debries
06	MC Khanpur	➤ Provision of machinery & manpower	5000000/-	➤ Any arrangement as directed by the higher authorities	2000000/-	➤ Rehabilitation of effectees & cleanliness
	MC Liaqatpur	➤ Provision of machinery & manpower	5000000/-	➤ Any arrangement as directed by the higher authorities	2000000/-	➤ As directed by the authorities
08	Civil Defense	➤ Training of victims and any task assigned by the district govt.	20000/- (for transporation of volunteers)	➤ Evacuation of victims ➤ Tenting ➤ Vaccination ➤ Distribution of food ➤ Any task assigned by the district govt.	40000/- (for transporation of volunteers)	➤ Closing of tents ➤ Any task assigned by the district govt.
09	Agriculture Engineering	➤ Preparation of bulldozers for flood duty	2000000/- (Repair+POL)	➤ Shifting of bulldozers where needed	---	➤ Repair of bund
10	Social Welfare & Bail-ul-Maal Rhim Yar Khan	➤ Registration of volunteers through NGOs for flood activities ➤ Emergency cell at dist. Headquarter SW RYKhan ➤ Activation of NGO for resources & flood camps in all four tehsils	Voluntary services through NGOs	➤	50000/- (For each tehsil)	➤ Coordination with district govt. through local NGOs
11	Police	➤ Staff detail for flood fighting ➤ Readiness of machinery & other resources e.g. boats etc. ➤ Mock exercises to combat any disaster wilit the collaboration of other concerned departments.	1000000/- (for repair of boats & other rescue equipment)	➤ Establishment of posts in flood areas ➤ Extension of touring by police mobiles to the flood areas. ➤ Evacuation of flood victims ➤ Boat operation ➤ Connection of all relief camps via wireless	Nil	➤ Relevant reports

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	Union Council office Haji Pur RYKhan	200	X: Y:	16	Govt. Girls Primary School Bakhrani KHP	1000	X: Y:
2	Govt. Boys Primary School, Bannu da Hut (Kachi Zaman) RYK	200	X: 28.81475 Y: 70.40135	17	Govt. Boys Primary School Chandia	200	X: Y:
3	Govt. Boys Elementary School, Thul Hassan RYK	700	X: 28.75092 Y: 70.33698	18	Govt. Boys High School Tranda Mohammad Pannah	5000	X: Y:
4	Govt. Boys High School Ehsan Pur, RYK	600	X: 28.72928 Y: 70.28705	19	Govt. Boys High School, Gul Mohammad Langah	3200	X: Y:
5	Govt. High School, Abad Pur RYKhan	1500	X: 28.69384 Y: 70.25925	20	Govt. Boys Elementary School, Chohan	800	X: Y:
6	Basti Saeedan, Dera Mushir (Pull Khedo) RYK	200	X: Y:	21	Govt. Girls High School Thul Hamza	800	X: Y:
7	Basti Pull Ahmed Wah, (Mazari Bund) Muslim Abad, RYKhan	200	X: Y:				
8	Govt. Boys High School Rahim Abad, SDK	3000	X: 28.40752 Y: 69.94188				
9	Govt. Boys High School Jamal Din Wali, SDK	5000	X: Y:				
10	Govt. Boys High School Ahemd Pur Lamma SDK	600	X: Y:				
11	Govt. Boys High School, Machhaka, SDK	3000	X: Y:				
12	Govt. High School, M. Murad Dahir, SDK	500	X: Y:				
13	Govt. Boys Mid/School Bangli Samoka KHP	1000	X: Y:				
14	Govt. Boys Primary School Waghwan KHP	200	X: Y:				
15	Govt. Boys High School Chacharan Sharif KHP	2500	X: Y:				

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

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Liquatpur	"Union Council No. 103, Ahmed Ali Lar""Union Council No. 104, Gullani""Union Council No. 123, Taranda Muhammad Panah""Union Council No. 124, Gul Muhammad Langah""Union Council No. 126, Noor Wala""Union Council No. 128, Jhok Gulab Shah""Union Council No. 132, Dufli Kabir Khan"	Ahmad Ali Lar	Bakhshu Bhattar, Bana Roya, Jhok Ghulab Shah, Bait Sui, Bait Praran, Bait Dewan, Bait Allah Wassaya, Ghabool, Unran, Imam Bakhsh Unnar
			Bait Deewan	
			Bait Pararan	
			Chohan	
			Din Muhammad Dahir	
			Fakhar Abad	
			Mad Doulat Shah	
			Bapla Kacha	
			Gulani	
			Ali Daya	
			Chak Jindu Daya	
			Jindu Daya	
			Raqba Pir Mohsin Shah	
			Shehbaz Pur Sharqi	
			Bait Imam Bux Machi	
			Bait Murad	
			Gul Muhammad Langah	
			Tibbi Jhulan	
			Bait Aheer	
			Bait Balouch	
			Bait Bhattar	
			Bait Bhutto	
			Chakkar Noor Wala	
			Ghafoor Abad	
			Hayat Machi	
			Noor Wala	
			Tayyab Balouch	
			Bait Allah Wasaya	
Bait Sui				
Bakhshu Bhattar				
Bana Roya				
Gabool				
Jhok Ghulab Shah				
Imam Bux Unnar				

	Khanpur	"Union Council No. 74, Chachran Sharif""Union Council No. 75, Chandia""Union Council No. 97, Qadir Pur""Union Council No. 74, Chachran Sharif"	Unrran	Basti Ahmed Yar, Samooka, Choudhry, Chak Faizabad
			Bait Mughal	
Haider Abad				
Chachran (N)				
Pahoran				
Ahmed Kudan				
Chak Faiz Ahmed				
Mehran				
Chak Ahmed Yar				
Bakhrani				
Chandia				
Samoka				
Mud Adil				
Thatta Dagrocha				
Gidh Pur				
Wahgwan				
Chaudhry				
Bait Faiz Abad				
RYKhan			"Union Council No. 35, Muslim Abad""Union Council N. 63, Haji Pur""Union Council No.65, Thul Khair Muhammad""Union Council No. 66, Shah Pur""Union Council No. 68, Abad Pur"	
	Muslim Abad			
	Kacha Mahazi			
	Rasool Pur			
	Mud Manthar			
	Nawaz Pur			
	Haji Pur			
	Kachi Zaman			
	Hamid Pur			
	Manik			
	Bait Dur Muhammad			
	Khalti			
	Faiz Abad			
	Thul Hasan			
	Fateh Pur Tiwana			
	Kacha Gopang			
	Chak Viyah			
	Nabi Pur			
	Shah Pur			
Bait Mir Ahmed				

			Nonari	
			Machka	Fateh Pur, Sikandar Chachar, Bachal Shah, Swaitarki, Machhka, Korra, Faiz Gilaniabad, Doulatabad
			Swetrki	
			Sardar Pur	
			Chak Gul Muhammad	
			Mureed Abad	
			Daulat Abad	
			Faiz Jilani Abad	
			Thul Kander	
			Chak Bhara	
			Fateh Pur	
			Sikandar Chachar	
			Sher Muhammad,	
			Pir Hussain Abad	
			Gul Muhammad	
			Bakhsha Abad	
			Garhi Khair Muhammad Jhak	
			Shabir Ahmed Abad	
			Muhammad Murad Dahar	
			Kot Ghulam Miran Shah	
Urban Flooding				
Flash Floods				
Hill Torrent				
Tornado				
Earthquake				
Drought				
Epidemic				
Environmental Hazards				

(industrial accidents, severe pollution etc.)				
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ANNEX III: LIST OF HEALTH FACILITIES AND THEIR VULNERABILITY TO HAZARDS

Sr.#	Name of Health Facility	Location	Health Facility Type	GPS Coordinates	Focal Person	Phone No.
1	THQ: Hospital, Sadiq Abad.	City Sadiq Abad.	THQ	28.3101296 70.1296472	Medical Superintendent	068-5703981
2	RHC Ahmad Pru Lama	Ahmad Pur Lama	RHC		Chief Executive Officer (Health Authority)	068-9230114
3	RHC Jamal Din Wali.	Jamal Din Wali	RHC			District Health Officer
4	RHC Nawaz Abad	Nawaz Abad	RHC			
5	RHC Chak No.173/p	Chak No.173/p	RHC			
6	RHC Sanjar Pur.	Sanjar Pur.	RHC			
7	BHU Bhong	Bhong	BHU			
10	BHU Kot Sanjar Khan.	Kot Sanjar Khan	BHU			
11	BHU Chowk Sawaytra	Darigra	BHU			
12	BHU 5/NP	Roshan Bhait	BHU			
13	BHU Muhamamd Nawaz Wasa.	Bhutta Wahin.	BHU			
14	BHU Saadi Sultan.	do	BHU			
15	BHU Basti Abdul Karim	Ranjhey Khan.	BHU			
16	BHU Rooti Shairf.	Rasool Pur.	BHU			
17	BHU Chak No.26/NP.	Muhamamd Pur.	BHU			
18	BHU G.K.M. Jhak.	do	BHU			
19	BHU Machka	Machka	BHU			
20	BHU Meeray Shah.	Rahim Abad	BHU			
21	BHU Basti Sadiq.	do	BHU			
22	BHU Chak No.148/P	Adam Sohaba	BHU			
23	BHU Chak NO.158/p	Chak.158/p	BHU			
24	BHU Chak No.186/p	Chak 160/p	BHU			
25	BHU Chak No.255/p	do	BHU			
26	BHU Basti Sabzal Khan	Goth Jangoo.	BHU			
27	BHU Begar Garhi.	Sadiq Abad Deh	BHU			
28	BHU Bindoor Abbasian	Bindoor Abbasian	BHU			
29	BHU Chak No.264/p	Chak No.264/p	BHU			
30	BHU Chak No.206/p	Dhandi.	BHU			
31	BHU Kot Sabzal.	Mohib Shah.	BHU			
32	BHU Chak 39/NP	do	BHU			
33	Teaching Hospital Sheikh Zayed RYK		Teaching Hospital	28.4121141 70.3155934	Medical Superintendent	068-9230164
34	RHC Manthar.	Chak No.139/p	RHC		Chief Executive Officer (Health Authority)	068-9230114
35	RHC Kot Samaba.	Kot Samaba	RHC			District Health Officer
36	RHC Tarinda Saway Khan.	Tarinda Saway Khan	RHC			
37	RHC Rajan Pur.	Rajan Pur Kalan.	RHC			
38	RHC Mian Wali Qureshian.	Mian Wali Qureshian.	RHC			
44	BHU Khair Pur Khadali	Amin Garh	BHU			

45	BHU Bahishti	Bahishti	BHU			
46	BHU Bismillah Pur	do	BHU			
47	BHU Chak No.100/p	Chak 84/p	BHU			
48	BHU Wachhani.	Dari Azim Khan	BHU			
49	BHU Gulshan Dara.	Mou Mubarik.	BHU			
50	BHU Sonak.	Sonak.	BHU			
51	BHU Tibbi G. Muhammad	Tibbi Gull Muhammad	BHU			
52	BHU Adam Wali	Akram Abad	BHU			
53	BHU Basti Rais G Rasool	Aman Garh	BHU			
54	BHU Kachcha	do	BHU			
55	BHU Gulmerg	Chak.# 51-P	BHU			
56	BHU Chak.#107-P	Chak.# 105-P	BHU			
57	BHU Chak.#137-P	Tallay Wali	BHU			
58	BHU Chak.# 92-P	Wah Kohna	BHU			
59	BHU Chak.# 125-P	do	BHU			
60	BHU Chak.# 116-P	R.Y.Khan Deh	BHU			
61	BHU Abadpur	Abad Pur	BHU			
62	BHU Badli Sharif	Badli Sharif	BHU			
63	BHU Kot Haq Nawaz	Bahodi Pur Qureshian	BHU			
64	BHU Fateh Pur Punjabian	Kot Mehandi Shah	BHU			
65	BHU Murtazabad	Murtazabad	BHU			
66	BHU Kot Karam Khan	shareen	BHU			
67	BHU Chak Abbass	Bulaqi Wali	BHU			
68	BHU Adam Arrain	Gloor Maso Khan	BHU			
69	BHU Haji Pur	Haji Pur	BHU			
70	BHU Ehsaan Pur	Shah Pur	BHU			
71	BHU Chak.# 55-NP	do	BHU			
72	BHU M.W.Sheikhan	Mian Wali Sheikhan	BHU			
73	BHU Rukan Pur	Thul Khair Muhammad	BHU			
74	THQ: Hospital Khanpur.	City Khanpur.	ThQ	28.648220 70.661481	Medical Superintendent	068-5574822
75	RHC Sehja.	Sehja	RHC		Chief Executive Officer (Health Authority)	068-9230114
76	RHC Nawan Kot.	Nawan Kot	RHC		District Health Officer	068-9230112
77	RHC Bagho Bahar.	Bagho Bahar	RHC			
78	RHC Zahir Pir.	Zahir Pir	RHC			
79	Govt. Eye Hospital KPR	City Khanpur.	Gov. Eye Hospital			
82	BHU Chak No.131/IL	Bagho Bahar	BHU			
83	BHU Bang Bhatta sheikha	do	BHU			
84	BHU Chak No.45/p	Chak No.45/p	BHU			
85	BHU Mari Allah Bachaya.	Mari Allah Bachaya.	BHU			
86	BHU Mud Bhoora	Mud Bhoora	BHU			
87	BHU Chak No.112/NP	Azeem Shah	BHU			

88	BHU Din Pur Sharif.	Din Pur Sharif.	BHU			
89	BHU Gehna Lar	Gehna Lar	BHU			
90	BHU Garhi Ikhtiar Khan	Garhi Ikhtiar Khan	BHU			
91	BHU Chak No.1/p	Getha Bhutta	BHU			
92	BHU Muslim Town	Moeen Abad.	BHU			
93	BHU Chak No.7/p	Neel Garh.	BHU			
94	BHU Ghous Pur.	Chandia.	BHU			
95	BHU Chachran Sharif.	Chachran Sharif.	BHU			
96	THQ: Hospital, Liaquatpur.	City Liaquatpur.	THQ	28.9314982 70.9478642		
97	BHU Ghazi Pur.	Ghazi Pur.	BHU		Chief Executive Officer (Health Authority)	068-9230114
98	BHU Malik Pur.	Jajja Abbasian	BHU		District Health Officer	068-9230112
99	BHU Thakal Arain	Jhooran	BHU			
100	BHU Kotla Pathan	Kotla Pathan.	BHU			
101	BHU Qadir Pur.	Qadir Pur.	BHU			
102	BHU Langi War.	do	BHU			
103	BHU Chak No.94/p	Chak No.94/np	BHU			
104	BHU Latki.	Latki.	BHU			
105	RHC Pacca Laran	Pacca Laran	RHC			
106	RHC Feroza	Hayyat Lar	RHC			
107	RHC Khan Bela.	Khan Bela	RHC			
108	RHC Tarinda Muhammad Panah.	Tarinda Muhammad Panah.	RHC			
109	RHC Allah Abad.	Allah Abad.	RHC			
110	BHU Kandani.	Pacca Laran	BHU			
111	BHU Amin Abad.	Amin Abad.	BHU			
112	BHU Goth Mahi.	Ghooka	BHU			
113	BHU Arif Balouch	Hayyat Lar	BHU			
114	BHU Havail Gharib Shah.	do	BHU			
115	BHU Haroon Abad.	Nalla Musani.	BHU			
116	BHU Zamin Shan.	Ahmad Ali Lar.	BHU			
117	BHU Unran	Dufli Kabir Khan	BHU			
118	BHU Allah Jiwaya Lar.	Shedani Sharif.	BHU			
119	BHU Zafar Abd.	Zafar Abad.	BHU			
120	BHU Said Pur.	do	BHU			
121	BHU 1/A-Doshakha	Chak No.10/A	BHU			
122	BHU Jan Pur.	Jan Pur.	BHU			
123	BHU Muhammad Daha	Muhammad Daha	BHU			
124	BHU Chak No.25/A	Chak No.25/A	BHU			
125	BHU Chak No.79/A	Chak No.68/A	BHU			
126	BHU Chak No.225/A (Head Farid)	Chak No.225/A	BHU			

127	BHU Chak No.42/A	Chak No.42/A	BHU			
128	BHU Chak No.186/7R	Chak No.186/7R	BHU			
129	BHU Chak No.87/A	Chak No.87/A	BHU			
130	BHU Chak No.150/A	do	BHU			
131	BHU Chak No.45/A	Chak No.46/A	BHU			
132	BHU Chak No.147/A	Chak No.178/7R	BHU			
133	BHU Dashti.	Dashti.	BHU			
134	BHU Shahbaz Pur Shariqi.	Gull Muhammad Langah.	BHU			
135	BHU Jhok Gulab Shah.	Jhok Gulab Shah.	BHU			
136	BHU Dera Faridi.	do	BHU			
137	BHU Kanjki Wali.	Tarinda Gurgage.	BHU			

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrollment	Incharge Name	Contact Number
1	GBHS Umar Wada Dashti Liaqatpur	High	29.04558	70.8002	Functional	353
2	GBHS Jhok Gulab Shah Liaqatpur	High	29.07382	70.77754	Functional	417
3	GBHS Unran Liaqatpur	High	29.04277	70.72883	Functional	346
4	GGHS Thul Hamza Liaqatpur	High	29.07861	70.79031	Functional	375
5	GGHS Chachran Sharif Khanpur	High	28.84638	70.79031	Functional	345
6	GBHS Chachran Sharif Khanpur	High	28.76202	70.39062	Functional	393
7	GBHS Rajanpur Kalan RYKhan	High	28.60752	70.18271	Functional	692
8	GGHS Rajanpur Kalan RYKhan	High	28.60788	70.18292	Functional	388
9	GBHS Abad Pur RYKhan	High	28.69397	70.25936	Functional	467
10	GBHS Bhong Sadiqabad	High	28.42611	69.91234	Functional	469
11	GGHSS Bhong Sadiqabad	Higher	28.42407	69.91086	Functional	332
12	GBHS Machka Sadiqabad	High	28.29810	69.69756	Functional	741
13	GBHS Bakhsh Abad Sadiqabad	High	28.42862	69.86632	Functional	469

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	Bright Industries	Kacha Sadiqabad Rd RYKhan	X: Y:				
2	Unilever TVT Ltd	Chowk Pathanistan RYKhan	X: Y:				
3	Sharex Laboratories TVT Ltd	KLP Rd Sadiqabad	X: Y:				
4	Aziz Gas Industries	Tillu Rd. Sadiqabad	X: Y:				
5	Hammad Cold Storage	New Sabzi MAndi Hakim Colony Khanpur	X: Y:				
6	Subhan Allah Ice Factory	Basti Nooray Wali RYKhan	X: Y:				
7	Umer Khalid Ice Factory	Basti Nooray Wali RYKhan	X: Y:				
8	National Ice factory & Oil Mills	Hospital Rd. Sadiqabad	X: Y:				
9	Sadat Ice Factory	Jamaldin Wali Rd Sadiqabad	X: Y:				
10	Chaman Ice Factory	Manthar Rd Sadiqabad	X: Y:				
11	Sindh Ice Factory	Abid Town Sadiqabad	X: Y:				
12	Al-Jannat Ice factory	KLP Rd Sadiqabad	X: Y:				
13	Public Ice Factory	Manthar Rd Sadiqabad	X: Y:				
14	Qadri Ice factory	Nawan Kot Rd Khanpur	X: Y:				

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
15	Muslim Cotton & Ice Mills	Allah Abad Rd Liaquatpur	X: Y:				
16	Kamran Industries	Kacha Sadiqabad Rd RYKhan	X: Y:				
17	Delta Industries	37 Factory Area RYKhan	X: Y:				
18	Indus Industries	Tillu Rd Sadiqabad	X: Y:				
19	Wadood Industries	Adda Bagho Bahar Khanpur	X: Y:				
20	Al-Hilal Model Industries Pvt Ltd	Allah Abad Rd Liaquatpur	X: Y:				
21	Coca Cola Factory	Shahbaz Pur Road	X: Y:				
22	Ahmed Oil & Ghee Mills	Shahbaz Pur Road	X: Y:				
23	Ettihad Sugar Mills	Iqbal Abad	X: Y:				
24	JDW Sugar Mills-1	Jamal Din Wali	X: Y:				
25	JDW Sugar Mills-2	Mukhtiar Garh Sadiqabad	X: Y:				
26	Hamza Sugar Mills	Jetha Bhutta Khanpur	X: Y:				
27	RYK Sugar Mills	Jan Pur Liaquatpur	X: Y:				
28	Chaudhary Sugar Mill	Kot Smaba RYKhan	X: Y:				
29	Fauji Fertilizers Co. (FFC)	Macchi Goth Sadiqabad	X: Y:				
30	Fatima Fertilizers Co.	Mukhtiar Garh Saidqabad	X: Y:				

ANNEX VI: LIST OF NGOs WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Rural Education & Economic Development Society (REEDS)	National	All Tehsils	General Welfare	Shahid Saleem	0345-8011636
2	Human Development Foundation (HDF)	National	All Tehsils	Education Health	Ateeq-ur-Rehman	0300-6804438
3	National Rural Support Program (NRSP)	National	All Tehsils	Development	Mirza Riaz Ahmed	0301-8580182
4	Punjab Rural Support Program (PRSP)	National	All Tehsils	Development	Rashid Mukhtar	0342-9412551
5	Jaag Welfare Movement	Local	Rahim Yar Khan	General Welfare	Abdul Wahab	0333-7248836
6	Emergency Patient Welfare Liaqatpur	Local	Tehsil Liaqatpur	Health	Ch. Azhar	
7	Esar Welfare Society Liaqatpur	Local	Tehsil Liaqatpur	Health	Dr. Sadaqat	
8	Tanzeem Falah-e-Muashra Liaqatpur	Local	Tehsil Liaqatpur	General Welfare	Zafar Mian	
9	Bahboodi Taraqati Council Chachran Sharif	Local	Tehsil Khanpur	General Welfare	Abdul Hameed	0333-7451173
10	Maternity & Child Welfare Association	Local	Tehsil Khanpur	Health	Dr. Yaseen	068-558811
11	Falah Welfare Society	Local	Tehsil Khanpur	General Welfare	Shahid Ahmed	0332-5129292
12	Anjuman Behboodi Moashra	Local	Tehsil Khanpur	General Welfare	Muhammad Anwar	
13	Johar Educational Welfare Society	Local	Tehsil Khanpur	Health & Education	Dr. Mehmood Qureshi	
14	Al-Khidmat Welfare Society	Local	Tehsil Khanpur	Health	Malik Muhammad	
15	Anjuman Falah-e-Marizaan	Local	Tehsil Khanpur	Health	Zubair Subhani	
16	Anjuman Falah-e-Marizaan	Local	Tehsil Sadiqabad	Health	Rana Abdul Rasheed	068-5700769

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
17	Al-Khair Welfare Society	Local	Tehsil Sadiqabad	Health	Ashfaq Sahib	067-5703549
18	Idara Rifa-e-Ama Mohallah Ghafoor Abad	Local	Tehsil Sadiqabad	Education	Habib Ullah	068-5701889
19	Crescent Educational Welfare Society	Local	Tehsil Sadiqabad	General Welfare	Muhammad Saeed	0304-6781922
20	Hadi Alam Welfare Society	Local	Tehsil RYKhan	General Welfare	Muhammad Tahir Boota	
21	Anjuman Falah-e-Marizaan Sh. Zayed Hospital	Local	Tehsil RYKhan	Health	Malik Abid Feroz	0300-6751490
22	Islamic Welfare Society Chak 100/P Tririnda Swaye Khan	Local	Tehsil RYKhan	General Welfare	Ghulam Abbas	
23	Dehi Ijtemai Traqiati Council Chak 99/P	Local	Tehsil RYKhan	General Welfare	Ch. Abdul Hameed	
24	RAH Foundation	Local	Tehsil RYKhan	Health	Dr. Anees	0343-2349431
25	Al-Saeed Welfare Society	Local	Tehsil RYKhan	Health	Yasmeen Kausar	068-5870942
26	Professional Relief Org.	Local	Tehsil RYKhan	General Welfare	Eshaq Ahmed	
27	Sarsabz Welfare Society	Local	Tehsil RYKhan	General Welfare	Ghulam Yaseen	068-5873699
28	Green Peace Welfare Society	Local	Tehsil RYKhan	General Welfare	Rana Talib Hussain	068-5870425
29	Mujeeb Welfare Society	Local	Tehsil RYKhan	Health	Anwer Salimi	0300-9671995
30	Social Welfare Society Basti Patwari	Local	Tehsil RYKhan	Education	Saif-ur-Rehman	068-5875615

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

Sr#	Name & Designation of the Officer.	Telephone Nos.		Mobile No.	Fax No.
		Office	Residence		
1	Asif Iqbal Ch. Commissioner, Bahawalpur.	062-9250061	062-9250538	0341-0922057	062-9250073 062-9250539
2	Ali Shahzad Deputy Commissioner RYKhan.	068-9230233 068-9230266	068-9230277 068-9230278	0304-0920085	068-9230267
3	Muntazir Mehdi DPO Rahimyarkhan.	068-9230301	068-9230304	0301-8670464	068-9230305
4	Dr. Jahazaib Labir ADC (R) / Focal Person RYKhan.	068-9230226	068-9230230	0333-6153591	068-9230331
5	Munir Ajnum SE,Irrigation, Rahimyarkhan	068-9230090	-	0300-7480932	068-9230093
6	Muhammad Anees SE, MEPCO Rahimyarkhan.	068-9230158	0689230159	0330-6155550	-
7	Shaikh M Tahir ADC(G) Rahimyarkhan	068-9230287	068-9230288	0300-6362603	-
8	Mr. Rayasat Ali Secretary, DRTA/AC/Coord. Rahimyarkhan	068-9230273	-	0300-6449726	-
9	Iqrar Hussain DD Agriculture (Ext.)RYK.	068-9230129	-	0300-6753454	--
10	Dr. Sakhawat ali Randhawa CEO, DHA, RYKhan.	068-9230114	-	0333-6336700	
11	Rana M Azhar Khan CEO, DEA, Rahimyarkhan.	068-9030044	-	0300-6941938	--
12	Mian Khalid Masood DDLG, LG&CD Deptt. RYKhan	068-9230269	-	0300-9678058	-
13	Malik Farooq Deputy Director Labour Welfare, Rahimyarkhan.	068-9230024	-	0304-2579123 0308-6537639	068-9230124
14	Mr. Ch Abdul Sattar XEN. Irrigation RYKhan.	068-9230095		0300-6347192	068-9230096
15	M. Shahid Javed XEN, Irrigation Dallas.	068-9230092	-	0301-8496576	--
16	Mr. Munir Anjum (Addl. Charge) XEN, Irrigation, Khanpur.	068-5571564	-	0300-7480932	068-5571564
17	M. Aitzaz Anjum AC Rahimyarkhan.	068-9230271	068-9230371	0300-1122991	--
18	Amir Iftikhar AC Sadiqabad.	068-5705533	-	0334-5057232	068-5704433
19	Malik Farooq AC Khanpur.	068-5571383	-	0301-4188882	--
20	M. Arshad Wattoo AC Liaquatpur.	068-5975625	-	0300-198444	--
21	Dr. Abdul Sattar, DEO Rescue-1122 RYkhan.	068-9230011	-	0332-4321122	--
22	Dr. Ghulam Rabbani MS-SZH&MC Rahimyarkhan.	068-9230163 068-9230164	-	0300-6700882	068-9230162
23	Muhammad Ashraf CDO, RYKhan.	068-9230224	-	0301-7662883	-
24	Dr. Ashraf Naeem Addl. Director (Livestock) RYkhan.	068-9230124	-	0300-7824919	-

Sr#	Name & Designation of the Officer.	Telephone Nos.		Mobile No.	Fax No.
		Office	Office		
25	Azmat Qadeer Guraya CO, MC- Rahimyarkhan.	068-9230242	-	0300-8707564	--
26	Muhammad Ashraf MC-Tranda Sawaiy Khan (Addl. charge)	068-5587787	-	0320-8610000	-
27	Muhammad Ashraf MC-Kot Samaba	068-5587787	-	0320-8610000	-
28	M. Arshad Virk CO, MC- Sadiqabad.	068-5801214	-	0300-7927387	068-5801224
29	Ch. Tahir Mehmood CO, MC- Khanpur.	068-5572039	-	0320-7352574	068-5574277
30	Ghulam Mohi ud din CO, MC- Liaquatpur.	068-5795123 068-5692211	-	0300-8773470	-
31	Ghulam Mohi ud din CO, MC- Zahir Peer	-	-	0300-4765533	-
32	M. Altaf Hussain District Nazir	068-9230298	-	0302-7668156	
33	Mr. Abdul Rehman khalid Tehsildar, Sadiqabad.	-	-	0300-6629537	-
34	M. Aslam Gujjar Tehsildar Rahim Yar Khan			0333-3314483	
35	Lal Akbar Naib Tehsildar R.Y.Khan	-	-	0304-1834428	
36	Haji M. Junaid Khan Tehsildar Khanpur	-	-	0300-8770007	-
37	Haji M. Junaid Khan Tehsildar(Addl.) Liaquat Pur	-	-	0300-8770007	
38	Muhammad Shahbaz Incharge Control Room Rescue-1122 R.Y.Khan	-	-	0300-9672032	068-9230183
39	Ashiq Mehmood Rescue & Safety Officer Sadiqabad	-	-	0334-7511122	068-5702000
40	Adeel Ghafaar Rescue & Safety Officer Khanpur	-	-	0313-6606343	068-5571722
41	M. Imran Sajid Rescue & Safety Officer Liaquatpur	-	-	0300-9780314	068-5693222
42	District Flood Control Room Rahimyarkhan.	068-5870189 068-5870190	-	-	068-5870188
43	Rescue-1122	1122	-	-	-
44	Police	15	-	-	-

ANNEX VIII (A): LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email
1	Muhammad Hamza	31303-6174073-7	Mohala Iqbal Nagar, Rahim Yar Khan	0300-9676376
2	Sher Zaman	31303-6543397-9	Chak # 125/P Rahim Yar Khan	0305-2951788
3	Faisal Saleem	31303-0943882-9	Malik Pur, Kot Kamu Shah, Rahim Yar Khan	0303-5042205
4	Muhammad Zain	31303-3115286-3	St. # 05, Jinnah Park, Rahim Yar Khan	0303-6196370
5	Jamshed Iqbal	31303-1434438-5	Basti Khadali, Amin Garh, Rahim Yar Khan	0304-7577805
6	Abubakar	31303-2386257-5	Basti Khadali, Amin Garh, Rahim Yar Khan	0304-8339475
7	Abdul Jabbar	31303-7323889-7	Amin Garh, Rahim Yar Khan	0322-7085581
8	Ali Raza	31303-1596177-3	Basti Rasool Pur, Amin Garh, Rahim Yar Khan	0301-3478489
9	Sajid Hussain	31303-7691405-5	Amin Garh, Rahim Yar Khan	0304-7043081
10	Sher Muhammad	31303-8676703-1	Chak Abbas, Amin Garh, Rahim Yar Khan	0305-7089591
11	Hafiz Gohar Aziz	31303-7732167-7	Rajan Pur Kalan, Badli Sharif, Rahim Yar Khan	0301-6556062
12	Shahid Ali	31303-9064278-7	Chak # 125/P, Rahim Yar Khan	0302-3673502
13	Muhammad Danish	31303-4160053-3	Chak # 125/P, Rahim Yar Khan	0309-3453487
14	Shahzad Ahmed	31303-2710567-3	Chak # 125/P, Rahim Yar Khan	0308-8704125
15	Sikandar Ali	31303-8230220-5	Chak # 125/P, Rahim Yar Khan	0303-3229456
16	Umer Zaman	31303-4774166-1	Chak # 125/P, Rahim Yar Khan	0307-2867939
17	Babar Ishaq	31303-3252314-3	Chak # 125/P, Rahim Yar Khan	0304-7536876
18	Muhammad Imran	31303-1215680-9	Chak # 125/P, Rahim Yar Khan	0304-7556757
19	Muhammad Ahmed	31303-1579168-5	Chak # 125/P, Rahim Yar Khan	0308-0103125
20	Muhammad Kamran	31303-6375353-5	Chak # 125/P, Rahim Yar Khan	0308-7582125
21	Mubasher Ali	31303-6298055-5	Chak # 125/P, Rahim Yar Khan	0300-5257125
22	Muhammad Tayyab	31303-5599033-5	Chak # 125/P, Rahim Yar Khan	0304-7583797
23	Waheed Shakir	31303-7464092-5	Chak # 125/P, Rahim Yar Khan	0308-8290540
24	Arbab Boota	31303-3252314-3	Chak # 125/P, Rahim Yar Khan	0309-2664125
25	Muhammad Asghar	32102-0385286-7	Chak # 112/P, Rahim Yar Khan	0306-4245121
26	Muhammad Ajmal	31303-5162544-3	Chak # 114/P, Rahim Yar Khan	0303-2610414
27	Muhammad Tariq Javed	31303-1919780-1	Chak # 114/P, Rahim Yar Khan	0301-2630792
28	Muhammad Razwan	31303-7230011-7	Chak # 114/P, Rahim Yar Khan	0333-3437025
29	Qamar Shahzad	31303-3729147-3	Chak # 114/P, Rahim Yar Khan	0303-7198114
30	Abdullah Akbar	31303-2186604-1	Chak # 122/P, Rahim Yar Khan	0307-6962921

S#	Volunteer Name	CNIC	Address	Contact Number and Email
31	Muhammad Tahir	31303-6335822-9	Chak # 122/P, Rahim Yar Khan	0303 0390112
32	Muhammad Abubakar	31303-6233096-5	Chak # 114/P, Rahim Yar Khan	0307 6962921
33	Muhammad Zahid	31303-6611108-9	Chak # 122/P, Rahim Yar Khan	0308 0669910
34	Sadam Hussain	31303-4953415-1	Chak # 122/P, Rahim Yar Khan	0302 2405122
35	Ali Raza	31303-9611269-1	Chak # 114/P, Rahim Yar Khan	0310 6694370
36	Zeeshan Mustafa	31303-6932156-7	Chak # 114/P, Rahim Yar Khan	0304 3899124
37	Abdul Jabbar	31304-6869319-3	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0302 7652278
38	Muhammad Saleem	31304-2081264-5	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0306 2826340
39	Zahid Hussain	31304-7785981-1	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0301 5253421
40	Ashfaq Ahmed	31304-2018980-3	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0301 7660964
41	Muhammad Jamil	31304-5328661-3	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0300 7826463
42	Naveed Raza	31304-7135204-5	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0302 6532897
43	Muhammad Kashif	31303-1564987-1	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0305 3822160
44	Muhammad Naeem	31304-2018973-1	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0300 3908968
45	Ashfaq Ahmed	31304-2074002-5	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0307 6567850
46	Faraz ul Hasan	31304-4984088-1	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0300 7035562
47	Maddad Ali	31304-9400258-3	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0300 4380577
48	Masoom Ali	31304-163697-7	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0302 7633770
49	Zahid Iqbal	31304-9118932-9	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0300 7824266
50	Abid Ali	31304-1005720-3	Bsti Kalar Wali, Rasool Pur, Rahim Yar Khan	0304 8410581
51	Nasir Abbas	31303-6953575-3	St. 7 Hussain Abad RYKhan	0301-3435756
52	M. Waseem Aslam	31303-9340374-1	Aziz Abad Behari colony RYKhan	0300-3271554
53	M. Masood Khan	31303-5534646-5	St. 2 Mud Darbari RYKhan	0300-3858853
54	Adnan Khan	31303-1267279-5	House 245 Qazafi Colony RYKhan	0308-7999109
55	Mujeeb-ur-Rehman	31303-4091358-1	Usman Abad RYKhan	0304-5081602
56	Muhammad Amjad	31303-8518164-9	Dera Mian Mukhtar Laal Peer RYKhan	0301-3339480
57	M. Islam Khaliq	31303-4038530-5	Mohalla Makhi data ram RYKhan	0333-3456569
58	Azeem Bakhsh	31303-1760370-5	Basti Pursaan RYKhan	0336-6387670
59	Saeed Ahmed	31303-5839791-7	Qazafi Colony 1 RYKhan	0311-0442212
60	Shahzad Shabbir	31303-9587864-7	St. 6 Jinnah Park RYKhan	0307-2110246
61	M. Farooq	31303-2436101-1	Amanat Colony Airport Road RYKhan	0300-9670871

S#	Volunteer Name	CNIC	Address	Contact Number and Email
62	Zahid Hanif	31303-1831231-7	Aziz Colony Chowk Bahadur pur RYKhan	0303-6154485
63	M. Kaleem Ullah	31301-7429657-5	Near Civil Hospital Mohalla Sher Muhammad RYKhan	0313-8779929
64	Sami Ullah	31301-1240712-1	Municipal Colony Mohalla Sher Muhammad RYKhan	0307-2728297
65	Akhtar Ali	31304-6713476-9	Basti Abdul Rehman RYKhan	0300-6714782
66	M. Akbar	31303-9429872-3	Basti Abdul Rehman RYKhan	0303-3160900
67	Hidayat Ullah	31303-9766020-3	Trinda Sawaye Khan RYKhan	0304-3569821
68	Tanweer Abbas	31303-6134075-5	Basti Hafiz Abad Kot Samaba RYKhan	0305-4928298
69	Muhammad Ishfaq	31303-3187435-3	Basti Hafiz Abad Kot Samaba RYKhan	0303-6128564
70	M. Ahmed Hanif	31303-1617519-3	51/C Block W Gulshan Iqbal RYKhan	0301-2038434
71	M. Imran Aslam	31303-2349133-1	St. 5 Block X Gulshan Iqbal RYKhan	0300-6742088
72	Mazhar Iqbal	31304-6333438-7	Labor colony RYKhan	0313-7336249
73	Muhammad Attiq	31303-2410556-9	Fateh Pur Panjabian RYKhan	0305-8571450
74	Muhammad Saleem	31303-0162724-9	Fateh Pur Panjabian RYKhan	0305-6317833
75	Muhammad Khaliq	31303-5364098-5	Fateh Pur Panjabian RYKhan	0301-8677203
76	Muhammad Amin	31303-9153441	Zohaib Abad Colony RYKhan	0305-6361317
77	Muhammad Waseem	31303-3532409-3	Fateh Pur Arraian RYKhan	0307-2497859
78	Khaleel Ahmed	31303-0475709-5	Peer Abdul Malik RYKhan	0308-7171953
79	M. Haris Ali	31303-4211769-9	St. 6 Habib colony RYKhan	0300-3264602
80	Sharafat Ali	31303-2820170-5	Basti Daro Khanbra Doulatpur RYKhan	0301-2631036
81	Sajjad Hussain	31303-0724915-3	Basti Daro Khanbra Doulatpur RYKhan	0340-1179820
82	Nazim Hussain	31303-7756273-1	Basti Daro Khanbra Doulatpur RYKhan	0308-7972789
83	Shameer Ahmed	31303-7691199-1	Basti Daro Khanbra Doulatpur RYKhan	0307-7645840
84	Riaz ahmed	31303-2429296-5	Moza Nabi Pur Doulatpur RYKhan	0304-2942442
85	Abdul Wahab Rana	31303-12316661	20-B Block V Gulshan Usman RYKhan	0300-9679701
86	Shahzad Ibrahim	31301-1457953-5	H. No104-B Block Z Satellite town RYKhan	0334-7384041
87	Sohail Ahmed	31301-0802230-3	Basti Koraiyan Neel Garh Khanpur RYKhan	0306-9657249
88	M. Sabir Hussain	31303-1715198-5	Owais Nagar Shah Khanpur RYKhan	0302-7623568
89	Saad Ahmed	31303-5839791-7	H. 5 Street 1 Qazafi Colony RYKhan	0311-0442212
90	Muhammad Madni	31303-8133374-3	Thana Rd Zahirpir Khanpur RYKhan	0304-7480098
91	Akhtar Ali	31304-6713476-9	Basti Kallar Wali Sadiqabad	0300-6714782

S#	Volunteer Name	CNIC	Address	Contact Number and Email
92	Muhammad Akbar	31303-9429872-3	Basti Kallar Wali Sadiqabad	0303-3160900
93	Zubair Akbar	31303-1404397-7	Dak Khana Khas Sadiqabad	0302-2320307
94	Muhammad Waseem	31303-5452173-1	Dak Khana Akram Abad Sadiqabad	0308-7650788
95	Sajjad Ahmed	31304-6510683-9	Basti Manzoor Ahmed Sadiqabad	0307-3384258
96	Bilal Ahmed	31304-5379922-7	Faiz colony Sadiqabad	0303-7661591
97	Ghazanfar Hussain	31304-4670421-7	Chak 21 N/P Sadiqabad	0305-4693934
98	Abid Ali	31304-8060449-9	Basti Chanawal Chak 9N/P Sadiqabad	0308-7476884
99	Muhammad Asif	31304-7054908-9	Chak 21 n/P Jamal dil wali Rd Sadiqabad	0304-4355349
100	Muhammad Nasir	31304-5218178-5	Chak 21 n/P Jamal dil wali Rd Sadiqabad	0308-7687264
101	Nabeel Asghar	31304-9910974-3	Mujahid colony Saiqabad	0302-7949216
102	Rana M. Sultan	313041288940-9	Mujahid Colony Sadiqabad	0301-2633670
103	Muhammad Ahmer	31304-7240469-5	Chak 151 N/P Sadiqabad	0308-7635251
104	Muhammad Akmal	31304-8865198-9	Bsti Chanawar Sadiqabad	0300-7652623
105	M. Farhan younis	45401-2307324-9	Main street cheema town sadiqabad	0342-6622166
106	Muhammad Sharif	31304-8215126-3	Ittefaq Town Sadiqabad	0305-7073534
107	Muhammad Azeem	31304-9120995-7	H. No 5 Bismillah town Sadiqabad	0301-7483184
108	M. Qasim Ali	31403-3239430-7	St. 2 Bismillah town Saidqabad	0303-7483184
109	Tahir Tufail	31304-2014915-1	34/5 Jawaid Colony Sadiqabad	0300-6721761
110	Niaz Ahmed	31304-3896659-9	Basti chanwar chak 9 N/P Sadiqabad	0334-7287951
111	Sajjad Ahmed	31304-6510683-9	Basti Manzoor Ahmed Sadiqabad	0307-3384258
112	Bilal Islam	31301-5500652-3	HAMEED Town Khanpur	0302-8092114
113	M. Shafiq	42401-1825145-5	Mohalla Muhammad Pur Khanpur	0302-9716216
114	Muhammad Ajmal	31301-6440217-5	Mohalla Muhammad Pur Khanpur	0302-7636058
115	M. Arshad Hashmi	31301-1491354-9	Zahir Pir Khanpur	0301-7622722
116	Mohsin Abbas	31301-5902102-7	Basti Abdul Sattar Khanpur	0306-3376552
117	Muhammad Madni	31301-8133374-3	Khan Colony Khanpur	0304-7480098
118	M. Sabir Hussain	31301-1715198-5	Awis Nagar Shah Khanpur	0302-7623568
119	Sohail Ahmed Saeedi	31301-0802230-3	Basti Korayan Khanpur	0306-9657249
120	Shahzad Ibrahim	31301-1457953-5	Block Z Satellite Town Khanpur	0334-7384041
121	Ahmed Nadeem Ansari	31301-6601969-5	Moza Shah Muhammad Maral Khanpur	0322-8713076
122	Abdul Rasheed	31302-3439604-9	Faisal Colony Khanpur	0301-2604050

S#	Volunteer Name	CNIC	Address	Contact Number and Email
123	Riaz Abbas	31301-4367728-1	Basti Ali Muhammad Khanpur	0306-3085066
124	Tanveer Abbas	31303-6134075-5	Basti Hafiz Abad Khanpur	0305-4928298
125	Muhammad Ishfaq	31303-3187435-3	Basti Hafiz Abad Khanpur	0303-6128564
126	Waheed Arshad	31301-0802230-3	Khan colony zahirpir Khanpur	0314-6122022
127	Muhammad Arshad	31301-1491354-9	Basti Abdul Sattar Zahirpir Khanpur	0301-7622722
128	M. Ramzan	31302-9283060-1	Moza Dashti Thulza Liaqatpur	0301-7875694
129	M. Nadeem	31302-1376837-1	Chak 24/A Liaqatpur	0304-8582744
130	Tariq Mehmood	31302-0859283-5	Colony Dak Khan Khas Liaqatpur	0344-1714428
131	Shakoor Ahmed	31302-6332786-1	BASTI Haider Abad Liaqatpur	0300-9661788
132	Abdul Ghaffar	31302-1161785-5	Dak Khana Liaqatpur	0304-7504699
133	Khurram Shahzad	31302-6094775-3	Dak Khana Liaqatpur	0343-7952858
134	Abdul Majeed	31302-1979907	Dak Khana Liaqatpur	0300-7823190
135	Muhammad Irfan	31302-1592922-9	Dak Khana Liaqatpur	0300-8675330
136	Muhammad Ajmal	31302-5212041-7	Mohalla Sufi Jamal Liaqatpur	0306-7612220
137	Abdul Wahab	31302-0390863-9	Dak Khana Liaqatpur	0303-0741544
138	Saleem Ahmed	31302-7195747-5	Moza Lakhani Khanbela Liaqatpur	0301-5044922
139	Ghulam Hussain	31302-1978554-7	Chak 24/A Liaqatpur	0303-2719967
140	Muhammad Faiz	31302-956464-6	Chak 24/A Liaqatpur	0307-4612624
141	Abdul Saboor	31302-9918849-5	Chak 29/A Liaqatpur	0306-2007557
142	Fiaz Ahmed	31302-1558338-3	Chak 25/A Liaqatpur	0344-8644774
143	Muhammad Aslam	31302-0704645-3	Thul Hamza Liaqatpur	0302-6505416
144	M. Sadique	31302-2720345-7	Chak 22/A Liaqatpur	0307-7985211
145	M. Faisal Saleem	31302-5098338-9	Chak 22/A Liaqatpur	0308-3658522
146	M. Hussain	31302-1699005-9	Khvajgan Khanbela Liaqatpur	0301-7624464
147	M. Asghar	31302-9635019-7	Basti Chah budhan Khan Liaqatpur	0304-8049226

ANNEX VIII (B) : LIST OF SWIMMERS/DIVERS

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1						
2						
3						
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30						

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-175-RYK-I	Syed Mobeen Ahmed		0333-3330786	PP-255-RYK-I	Ghazanfar Ali Khan		
NA-176-RYK-II	Sheikh Fayyaz-ud-Din		0300-8670701	PP-256-RYK-II	M. Aamir Nawaz Khan	Mines & Minerals	0300-3183333
NA-177-RYK-III	Makdoom Khusro Bakhtiar		0333-5223000	PP-257-RYK-III	Ch. Masood Ahmed		0300-8676646
NA-178-RYK-IV	Makhdoom Syed Mustafa Mahmood		0333-9299666	PP-258-RYK-IV	Mian Shafi Muhammad		0300-6704429
NA-179-RYK-V	Ch. Javed Iqbal Warraich		0300-8674107	PP-259-RYK-V	Makhdoom Hasham Jawan Bakhat	Finance Minister	
NA-180-RYK-VI	Makhdoom Syed Murtaza Mehmood		0333-4112299	PP-260-RYK-VI	M. Arshad Javed		
				PP-261-RYK-VII	Fawaz Ahmed		0300-6701026
				PP-262-RYK- VIII	Asif Majeed		0300-8672422
				PP-263-RYK-IX	Muhammad Shafiq	Zakat & Usher	0300-8672737
				PP-264-RYK-X	Makhdoom Syed Usman Mahmood		
				PP-265-RYK-XI	Rais Nabeel Ahmad		
				PP-266-RYK-XII	Mumtaz Ali Chang		
				PP-267-RYK-XIII	Ch. Muhammad Shafiq Anwar		

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

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

Town Level

S#	Tehsil	TC	Chair	Chair Contact	Vice Chair	VC Contact
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

S#	Tehsil	TC	Chair	Chair Contact	Vice Chair	VC Contact
16						
17						
18						
19						
20						
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22						
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25						
26						
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ANNEX XI: DATA COLLECTION PROFORMAS

P1: House Damage Assessment

District: _____

Date: _____

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

P2: Deceased Person Reporting Proforma

District: _____

Date: _____

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

P3: Injurd Person ReposrtingProforma

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.
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P5: Crop Damages

District: _____

Date: _____

S#	Tehsil	Qanoongoi	Union Council	Mauza	Farmer Name	Land owner/Tenant	CNIC of farmer	Contact number	Type of Crops	Total land affected (acres)	% of mauza affected
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P6: Relief Distribution Tracking Proforma

District: _____

Date: _____

S#	Location/ Destination	Arrival Date and time	Items	Quantity	Items short (if any)	Items sent by	Driver name	Received by	Bilty no
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P7: Private Machinery (Boats, Bulldozers, Cranes etc.)

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

P9:NGOs registration proforma

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

District: _____

Date: _____

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

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

LBDC(IP)			
1	Balloki Head works Division	Left Marginal Bund	28,350
2	do	Right Marginal Bund	26,500
Total in Feet			54,850
Total in miles			10.38
LAHORE ZONE			
1	FLOOD Bund Division Narowal	Jassar Highway Bund	20,000
2	do	Rayya flood Bund	40,000
3	Pasrur Link Division Sialkot	City Flood Protection Bund along Aik Nullah	7,340
4	do	Hajoipur Flood Protection Bund along Aik Nullah	86,00
5	do	Left Flood Protection Bund over deg Nullah from defence embankment to Zafarwala Kingra road	11,250
6	Marala Division UCC	Left Marginal Bund	68,639
7	do	Right Marginal Bund	6316
8	Lahore Drainage Div.	Shahdara Flood Protection Bund	15,750
Total in Feet			169,295
Total in miles			32
Grand total in miles			

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	9.5	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
CHENAB	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
	Marala	11	1	1.5	2	4	6
	Khanki	11	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	8.75	1.5	2	3	4.5	6
	Punjad	7	1.5	2	3	4.5	6
RAVI	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4.25	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
SUTLEJ	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
	Islam Mailsi Syphon	3 4	0.5 0.75	0.8 1.1	1.2 1.5	1.75 2.25	2.25 3

ANNEX XV: LIST OF BASIC TERMS

Acceptable risk

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

Biological hazard

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

Capacity

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

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

Capacity building

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

Climate change

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

Coping capacity

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

Disaster

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

Disaster risk management (DRM)

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

Disaster risk reduction/disaster reduction

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

Early warning

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

Emergency management

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

Forecast

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

Geological hazard

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