

DISTRICT DISASTER MANAGEMENT PLAN 2022

Division: Bahawalpur

District: Rahim Yar Khan



Floods- 2010



Sehja Bus Drowning Incident - 2009



Incident-Collision of Trains in 2019



Fire incident at Landa Bazar Sadiqabad-2017

Prepared by: Barrister Bilal Saleem (ADCR)

Approved by: Mr. Mehtab Waseem Azhar (Deputy Commissioner)

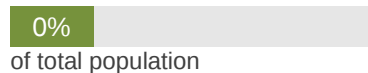


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Hill Torrent

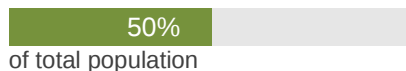
Estimated number of people at risk of **hill torrent** in 2022



Risk: Low

Floods

Estimated number of people at risk of Floods in 2022



Risk: Medium

Earthquake

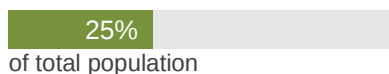
Estimated number of people at risk of earthquake in 2022



Risk: Low

Epidemic

Estimated number of people at risk of epidemic in 2022



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 identifies 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)	405
6.	Family Size	7.5
7.	Pop Growth Rate	2.27
8.	Poverty Rate	40-50
9.	IMR	56
10.	MMR	127
11.	Literacy Rate	48
12.	Global Acute Malnutrition (GAM) rate	46.1
13.	Annual Crime	17166

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	849,251	767,675	228

Area

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
11880	1,495,212 Acres	1,461,935 Acres	33,277 Acres

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
48%	57%	29%	54%	61%	60%	35%

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
Mosque Schools	Boys	186	9459
	Girls	2	4991

Private Schools

		Schools	Enrollment
Total/ Overall		1145	145,599
Boys, Girls & Co- Education	Primary	249	87,587
	Middle	485	37,798
	High	329	17,673
	Higher Secondary	82	11,441

Higher/Technical/Professional Education (Public & Private)

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

Health Facilities

Particulars	Primary	Secondary	Tertiary	Total
No. of Facilities	187	3	1	191
Annual OPDs	3,003,198	1,409,821	2,187,310	6,600,329
No. of beds	568	200	954	1722
Doctors Available	213	166	348	727
Paramedical staff	653	80	153	886
Ambulances available	20	0	4	24
Mobile Medical Units				2

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
70%	4.2%	1.25%	%	%	%	%	%	%	%	%

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		
6	2020	216	0	2	0	0		

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 Jaisalmer (India) and Ghotki District of Sindh Province and in the west by Rajanpur District.
Topographical Features	The District lies between 27°-40' to 29°-16' north latitude and 60°-45' to 70°-01' east longitude.
Weather/Climate pattern	District Rahimyarkhan has a very hot and dry climate in summer. The maximum temperature touches 49.7°C. The minimum temperature recorded is 6.8°C. 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 borders nearly 100KM length of the district and passes 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	The District has total metalled road length of 3200 Kilometers. The District is linked with district Bahawalpur, Sukkar, Rajanpur and Muzaffargarh Districts through highways. Motorway also links the district with district Lahore, Islamabad and other major cities in the central and north Punjab and KP. It also links the district to Sindh province. However, there are no vulnerable points on 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 are no vulnerable points of Railway in the District Rahimyarkhan.
Geological features	The district consists of a vast cultivated area, a long riverine belt along the Indus and Cholistan area, bordering Bahawalpur and India. There are no fault lines and mountain areas in the District.

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		
Breaching section of Benazir Shaheed Bridge on the Indus near Chachran shareef is yet to be notified. Concerned authorities have been conveyed to define the area and modalities of breach at the earliest.							

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-1Chak 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-1Sattellite Town	132 KV	X:28.320072 Y: 70.126444
Sadiqabad-2 Jamal Din Wali	132 KV	X:28.499465 Y: 70.055393	Sadiqabad-3NawazAbad	132 KV	

Airport / Landing Strips

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

RAHIM YAR KHAN DISTRICT

KILOMETRES 10 5 0 10 20 30 40 KILOMETRES

LEGEND

- DISTRICT BOUNDARY
- TEHSIL BOUNDARY
- ROAD METALLED
- ROAD UNMETALLED TRACK
- RAILWAY LINE
- RIVER
- CANAL
- DISTRICT HEADQUARTERS
- TEHSIL HEADQUARTERS
- URBAN AREAS
- OTHER LOCALITIES

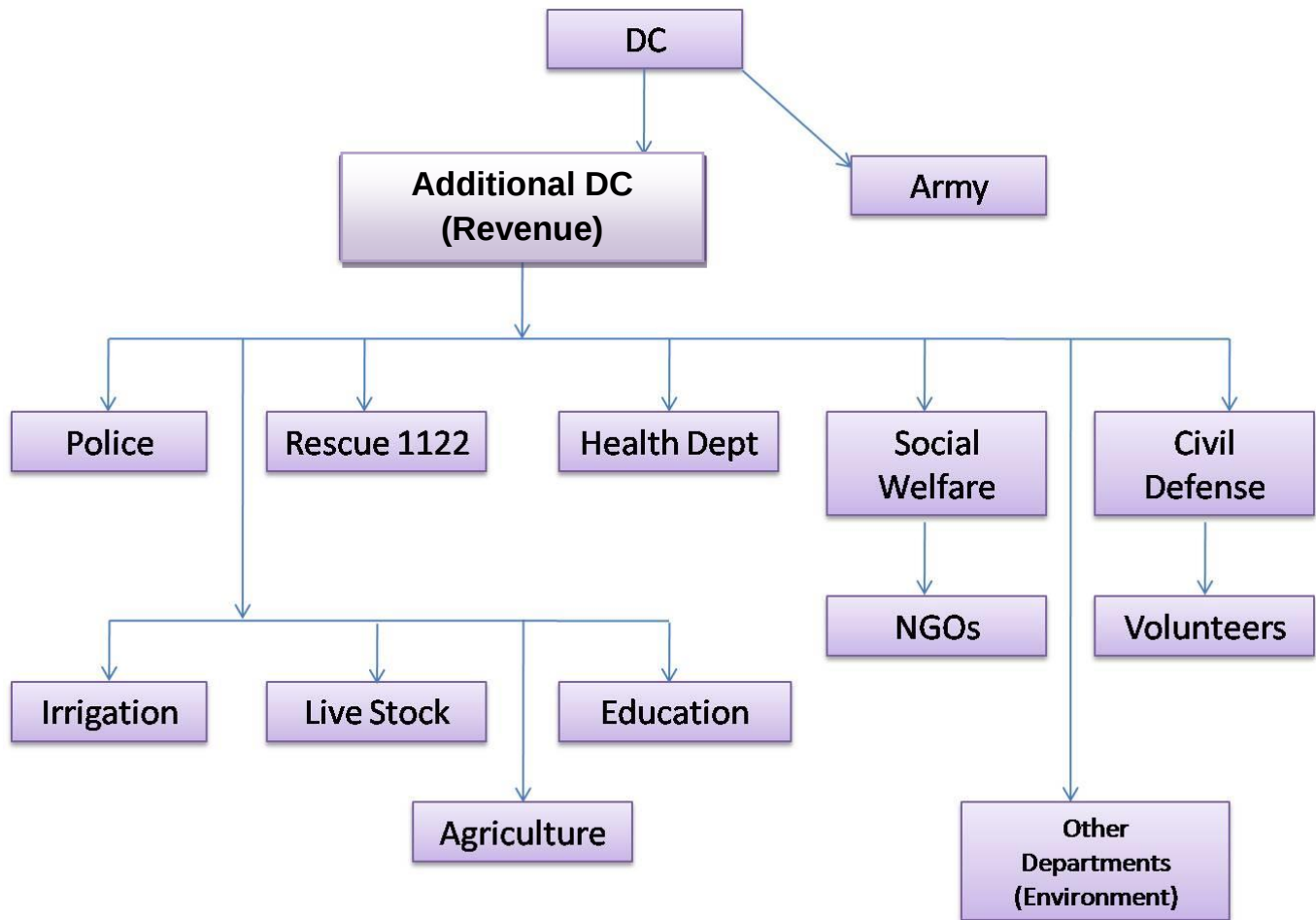
Map Labels:

- Districts:** RAHIM YAR KHAN DISTRICT, MUZAFFARGARH DISTRICT, PANJNAD DISTRICT, BAHAWALPUR DISTRICT, RAJANPUR DISTRICT, JACOBABAD DISTRICT, GHOTKI DISTRICT, LIAQUATPUR DISTRICT, INDIAN DISTRICT.
- Tehsils:** KHANPUR TEHSIL, RAHIMYAR KHAN TEHSIL, SADIQABAD TEHSIL.
- Headquarters:** KHANPUR, RAHIM YAR KHAN, SADIQABAD.
- Other Localities:** Nurwala, Trinda, Muhammed Panah, Janpur, Khan Bela, Chachran, Zahir Pir, Rukunpur, Sardergarh, Pailu Sheh, Terinda, Sewal Khan, Jamalluddin Wali, Muhammad Pur, Rahim Abad, Ahmadpur, Lemma, Ket Sahzal, Walha, Kamran Bari, Tada Kenders, Rajarwala, Gorthwala Bari, Ket Murid, Alimwala, Tekki, Bhindli, Muthuk Khu, Gemnowala, Tekki, Sakhiwala, Khu, Isimgarh, Nunjewala, Fireza, Nawan Kot, Pekka Loran, Khana, Canal, Indus River, Arabian Sea, Ghotki, UBAIRO, ROAD.

Source:

COORDINATION MECHANISM

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



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

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

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

- a) prepare a disaster management plan including district response plan for the district;
- b) coordinate and monitor the implementation of the National Policy, Provincial Policy, National plan, Provincial Plan and District Plan;
- c) ensure that the areas in the district vulnerable to disasters are identified and measures for the prevention of disasters and the mitigation of its effects are undertaken by the departments of the Government at the district level as well as by the local authorities;
- d) ensure that the guidelines for prevention, mitigation, preparedness and response measures as laid down by the National Authority and the Provincial Authority are followed by all departments of the Government at the district level and the local authorities in the district;
- e) give directions to different authorities at the district level and local authorities to take such other measures for the prevention or mitigation of disasters as may be necessary;
- f) lay down guidelines for preparation of disaster management plans by the departments of the Government at the districts level and local authorities in the district;
- g) monitor the implementation of disaster management plans prepared by the departments of the Government at the district level;
- h) lay down guidelines to be followed by the departments of the Government at the district level;
- i) organize and coordinate specialized training 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 roster 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 that requires the manpower or rescue equipment or operational expertise of the Army. This will happen on the basis of analysis of the magnitude and type of the disaster confronted.

Volunteer Network

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

RISK ANALYSIS

1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	4	3	12
Urban Flooding	2	2	4
Flash Floods	3	4	12
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 of the district.
3. The floods in 2013 also affected the same areas of the district and resulted in huge damages to the livelihood of the adjoining villages, towns and revenue estates of the district.

INDEX PLAN

Confluence Point River Indus & Chanab



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	35	34	1	0
OBM	35	33	2	0
De-watering sets	36	36	0	0
Life Jackets	461	421	40	0
Life Ring	9	9	0	20
Scuba diving suit with complete accessories	4	3	1	6
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
Boat Carrier/Trolleys	3	3	0	0
Pickups/Jeeps/4x4 vehicles/Mini Trucks	15	15	0	0
Searchlight	36	36	0	0
Tent	3850	0	3850	0
Mosquito Net	1700	0	1700	0
Plastic Mat	467	0	467	0
Generator Sets (All Types)	8	8	0	0
Gas-Cutters	4	4	0	0
Hydraulic Cutter	4	4	0	0
Floating Rope	14	14	0	0
Life Bouys	91	91	0	0
Water Rescue Van	1	1	0	0
Portable Generator with Lights	2	2	0	0
Radio Set with Charger	15	15	0	0
Oars	56	56	0	0
Batteries of Boat Tracking Devices	34	34	0	0
Walkie Talkies	74	74	0	0
Tractor/ Trolley	53/39	53/39	0	0

First Aid Kit	8	8	0	40
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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 disaster 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

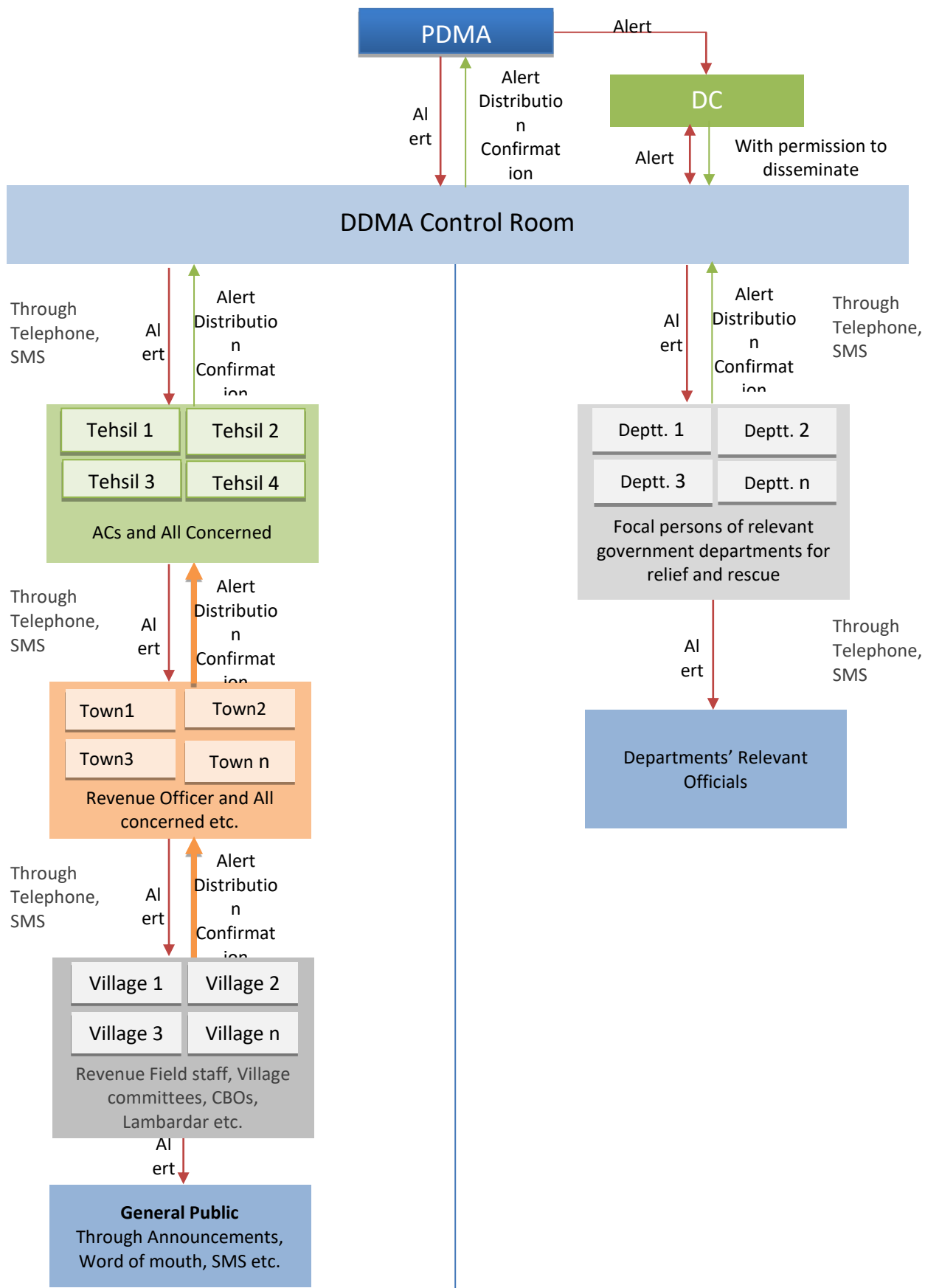
Hazards	Mitigatory Actions	Responsible Department
Floods	1. Strengthening of embankment with stone pitching and repair of embankment where local people cut down the embankment for ways or any other purpose. 2. Tree plantation in flood prone areas. 3. Removal of encroachments from waterways/ River courses in flood prone areas. 4. Establishment of flood relief camps near the flood bund for the flood affectees. 5. Low-lying areas will be identified in case of Monsoon/ Flood; immediate action will be taken for shifting of flood affectees from low-lying areas to the safer places. 6. Get the people of flood prone areas aware regarding the importance embankment. 7. Establishment of Community Emergency Response Teams (CERTs) among the local community and their training regarding Community Based Disaster Risk Management (CBDRM). 8. Construction of embankment where it is still not constructed.	Irrigation Rescue 1122 Revenue Forest Agriculture

Urban Flooding	1. Desilting of Irrigation Channels/ Drainage Channels and low lying areas. 2. Installation of De-watering sets at key locations in the city for rapid removal of water. 3. Installation of De-watering sets where required near Railway Station Platform, Railway Tracks and crossing for prevention from inundation and flood. 4. Activation of already established Community Emergency Response Teams (CERTs) in local community of cities to deal any untoward situation.	Irrigation Rescue 1122 Revenue Municipal Corporation/ Committees
Flash Floods	1. Strengthening of embankment with stone pitching and repair of embankment. 2. Provision of sufficient stock of stones and machinery at the vulnerable point (if any) near flood bund in case of any erosion. 3. Construction of embankment where it is still not constructed. 4. Establishment of flood relief camps near the flood bund for the flood affectees. 5. Establishment of Community Emergency Response Teams (CERTs) among the local community and their training regarding Community Based Disaster Risk Management (CBDRM).	Irrigation Rescue 1122 Revenue Forest Agriculture Food
Drought	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	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	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)	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.)	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:

Level-D (Disaster threat is perceptive)	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.
Level-C (Alert) (Warning issued but likelihood of occurrence is less than 100%)	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.
Level-B (High Alert) (Disaster threat is imminent)	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.
Level-A (Red Alert) (Disaster is materialized)	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.

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 with 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 supplements for pregnant females and ailed persons will be provided. Tent packages will comprise necessary household items e.g. mats, blankets, mosquito nets, necessary crockery (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	➤ 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)	➤ Evacuation of people/ boat operation. ➤ Establishment of relief camps & command post. ➤ First aid to the victims. ➤ Installation of tents. ➤ Distribution of food.	Nil	➤ Preparation of Final report. ➤ Recommendations regarding observations.
02	Environmental Protection Agency RYKhan	➤ 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 (Ammended 2012).
03	Live Stock	➤ Availability of vaccine	Nil	➤ 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
		➤ Availability of medicines	2000000/-	➤ Provision of treatment facility	3000000/-	Provision of treatment
		➤ Provision of dewormer	2000000/-	➤ Provision of dewormer	---	Mass deworming campaign for all displaced animals
		➤ Availability of wanda/ fodder	4000000/-	➤ Provision of wanda	184000/-	
		➤ 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-MaalRhimYar 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 with 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 HajiPurRYKhan	200	X: Y:	16	Govt. Girls Primary School BakhraniKHP	1000	X: 28.57806 Y: 70.55990
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: 28.85060 Y: 70.50081
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: 29.13877 Y: 70.84821
5	Govt. High School, Abad PurRYKhan	1500	X: 28.69384 Y: 70.25925	20	Govt. Boys Elementary School, Chohan	800	X: Y:
6	Basti Saeedan, DeraMushir (Pull Khedo) RYK	200	X: Y:	21	Govt. Girls High School Thul Hamza	800	X: 29.07585 Y: 70.79122
7	Basti Pull Ahmed Wah, (Mazari Bund) Muslim Abad, RYKhan	200	X: 28.60037 Y: 70.12387				
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: 28.51337 Y: 70.05199				
10	Govt. Boys High School AhemdPurLamma SDK	600	X: 28.31874 Y: 70.05522				
11	Govt. Boys High School, Machhaka, SDK	3000	X: 28.29811 Y: 69.69804				
12	Govt. High School, M. Murad Dahir, SDK	500	X: 28.44683 Y: 70.00395				
13	Govt. Boys Mid/School BangliSamokaKHP	1000	X: 28.90799 Y: 70.56372				
14	Govt. Boys Primary School WaghwanKHP	200	X: 28.94695 Y: 70.57550				
15	Govt. Boys High School Chacharan Sharif KHP	2500	X: 28.87470 Y: 70.46285				

ANNEX II:LIST OF HAZARD PRONE VILLAGES/REVENUE ESTATE

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods			Ahmad Ali Lar Bait Deewan Bait Pararan Chohan Din Muhammad Dahir Fakhar Abad Mad Doulat Shah BaplaKacha Gulani Ali Daya ChakJinduDaya JinduDaya RaqbaPir Mohsin Shah ShehbazPurSharqi Bait Imam BuxMachi Bait Murad Gul Muhammad Langah TibbiJhulan Bait Aheer Bait Balouch Bait Bhattar Bait Bhutto Chakkar Noor Wala Ghafoor Abad Hayat Machi Noor Wala Tayyab Balouch Bait Allah Wasaya Bait Sui BakhshuBhattar Bana Roya Gabool JhokGhulab Shah Imam BuxUnnar Unrran	BakhshuBhattar, Bana Roya, JhokGhulab Shah, Bait Sui, Bait Praran, Bait Dewan, Bait Allah Wassaya, Ghabool, Unran, Imam Bakhsh Unnar
	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"		

	Khanpur	"Union Council No. 74, ChachranSharif""Union Council No. 75, Chandia""Union Council No. 97, Qadir Pur""Union Council No. 74, Chachran Sharif"	Bait Mughal Haider Abad Chachran (N) Pahoran Ahmed Kudan ChakFaiz Ahmed Mehran Chak Ahmed Yar Bakhrani Chandia Samoka Mud Adil ThattaDagrocha GidhPur Wahgwan Chaudhry Bait Faiz Abad	Basti Ahmed Yar, Samooka, Choudhry, Chak Faizabad
	RYKhan	"Union Council No. 35, Muslim Abad" "Union Council N. 63, Haji Pur" "Union Council No.65, ThulKhair Muhammad" "Union Council No. 66, Shah Pur" "Union Council No. 68, Abad Pur"	Bait Allah Wasaya Muslim Abad KachaMahazi Rasool Pur Mud Manthar Nawaz Pur Haji Pur Kachi Zaman Hamid Pur Manik Bait Dur Muhammad Khalti Faiz Abad Thul Hasan Fateh PurTiwana KachaGopang ChakViyah Nabi Pur Shah Pur Bait Mir Ahmed Nonari	Hamid Pur, Haji Pur&Manik Kachi Zaman, Nawaz Pur

	Sadiqabad	"Union Council No. 1, Machka" "Union Council No. 2, Fateh Pur" Union Council No. 3, GarhiDhodo" "Union Council No. 7, Bhong" "Union Council No. 26, Iqbal Nagar"	Machka Swetrki Sardar Pur Chak Gul Muhammad Mureed Abad Daulat Abad Faiz Jilani Abad ThulKander ChakBhara Fateh Pur Sikandar Chachar Sher Muhammad, Pir Hussain Abad Gul Muhammad Bakhsha Abad GarhiKhair Muhammad Jhak Shabir Ahmed Abad Muhammad Murad Dahar Kot Ghulam Miran Shah	Fateh Pur, Sikandar Chachar, Bachal Shah, Swaitarki, Machhka, Korra, FaizGilaniabad, Doulatabad
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ANNEXIII:LIST OF VULNERABLEHEALTH FACILITIES

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	28.318164 70.059914	Chief Executive Officer (Health Authority)	068-9230114
3	RHC Jamal Din Wali.	Jamal Din Wali	RHC	28.51298 70.04912	District Health Officer	068-9230112
4	RHC Nawaz Abad	Nawaz Abad	RHC	28.337543 69.857229		
5	RHC Chak No.173/p	Chak No.173/p	RHC	28.186203 70.063809		
6	RHC SanjarPur.	SanjarPur.	RHC	28.256648 69.973782		
7	BHU Bhong	Bhong	BHU	28.42210928 69.90824148		
10	BHU KotSanjar Khan.	KotSanjar Khan	BHU	28.26605834 69.87705828		
11	BHU ChowkSawaytra	Darigra	BHU	28.36835146 70.008884668		
12	BHU 5/NP	Roshan Bhait	BHU	28.38255733 70.17925821		
13	BHU Muhamamd Nawaz Wasa.	BhuttaWahin.	BHU	28.42005372 70.080853701		
14	BHU Saadi Sultan.	do	BHU	28.48249498 70.12371431		
15	BHU Basti Abdul Karim	Ranjhey Khan.	BHU	28.430857658 70.216793418		
16	BHU RootiShairf.	Rasool Pur.	BHU	28.52243861 70.08260929		
17	BHU Chak No.26/NP.	MuhamamdPur.	BHU	28.34958175 70.1046368		
18	BHU GarhiKhairM. Jhak	do	BHU	28.4151403 69.8377687		
19	BHU Machka	Machka	BHU	28.2976724 69.69939028		
20	BHU Meeray Shah.	Rahim Abad	BHU	28.429006934 69.997828603		
21	BHU Basti Sadiq.	do	BHU	28.34939585 69.93350062		
22	BHU Chak No.148/P	Adam Sohaba	BHU	28.28065803 70.21851181		
23	BHU Chak NO.158/p	Chak.158/p	BHU	28.23129171 70.18196076		
24	BHU Chak No.186/p	Chak 160/p	BHU	28.132622838 70.140554309		
25	BHU Chak No.255/p	do	BHU	28.14886571 70.24527761		
26	BHU Basti Sabzal Khan	Goth Jangoo.	BHU	28.20976253 70.08150869		
27	BHU BegarGarhi.	Sadiq Abad Deh	BHU	28.27178908 70.15422464		
28	BHU BindoorAbbasian	BindoorAbbasian	BHU	28.19415046 70.01293092		
29	BHU Chak No.264/p	Chak No.264/p	BHU	28.05443958 70.00922924		
30	BHU Chak No.206/p	Dhandi.	BHU	28.10857805 69.93943184		
31	BHU KotSabzal.	Mohib Shah.	BHU	28.208287954 69.892632365		
32	BHU Chak 39/NP	do	BHU	28.26924602 69.84096586		
33	Teaching Hospital Sheikh Zayed RYK		Teaching Hospital	28.4121141 70.3155934	Medical Superintendent	068-9230164
34	RHCManthar.	Chak No.139/p	RHC	28.190666 70.22721	Chief Executive Officer (Health Authority)	068-9230114
35	RHC KotSamaba.	KotSamaba	RHC	28.55319 70.46096		068-9230112

36	RHC TarindaSaway Khan.	TarindaSaway Khan	RHC	28.488316 70.397047	District Health Officer	
37	RHC RajanPur.	RajanPur Kalan.	RHC	28.602889 70.176978		
38	RHC MianWaliQureshian.	MianWaliQureshian.	RHC	28.655993 70.386259		
44	BHU KhairPurKhadali	Amin Garh	BHU	28.477914333 70.342760682		
45	BHU Bahishti	Bahishti	BHU	28.51518866 70.50569669		
46	BHU Bismillah Pur	do	BHU	28.45811759 70.50710794		
47	BHU Chak No.100/p	Chak 84/p	BHU	28.42954567 70.3972057		
48	BHU Wachhani.	Dari Azim Khan	BHU	28.474738598 70.454903841		
49	BHU Gulshan Dara.	MouMubarik.	BHU	28.51389625 70.37826658		
50	BHU Sonak.	Sonak.	BHU	28.614744544 70.403732657		
51	BHU Tibbi G. Muhammad	Tibbi Gull Muhammad	BHU	28.57629367 70.46282572		
52	BHU Adam Wali	Akram Abad	BHU	28.48260087 70.22154174		
53	BHU Basti Rais G Rasool	Aman Garh	BHU	28.40500852 70.36842101		
54	BHU Kachcha	do	BHU	28.36032956 70.31114441		
55	BHU Gulmerg	Chak.# 51-P	BHU	28.36407042 70.45406096		
56	BHU Chak.#107-P	Chak.# 105-P	BHU	28.34701287 70.34590106		
57	BHU Chak.#137-P	TallayWali	BHU	28.231574893 70.284299254		
58	BHU Chak.# 92-P	Wah Kohna	BHU	28.29228865 70.34142675		
59	BHU Chak.# 125-P	do	BHU	28.27252415 70.28414814		
60	BHU Chak.# 116-P	R.Y.KhanDeh	BHU	28.34597177 70.25294035		
61	BHU Abadpur	Abad Pur	BHU	28.69231805 70.25801725		
62	BHU Badli Sharif	Badli Sharif	BHU	28.554341197 70.203655958		
63	BHU KotHaq Nawaz	BahodiPurQureshia n	BHU	28.60870143 70.28298375		
64	BHU Fateh PurPunjabian	KotMehandi Shah	BHU	28.50971575 70.24779173		
65	BHU Murtazabad	Murtazabad	BHU	28.56033428 70.28393231		
66	BHU Kot Karam Khan	shareen	BHU	28.58926626 70.13930588		
67	BHU ChakAbbass	BulaqiWali	BHU	28.51495362 70.31018196		
68	BHU Adam Arrain	GloorMaso Khan	BHU	28.74854557 70.41314568		
69	BHU HajiPur	Haji Pur	BHU	28.82189626 70.4401582		
70	BHU EhsaanPur	Shah Pur	BHU	28.72887123 70.2873337		
71	BHU Chak.# 55-NP	do	BHU	28.723829985 70.343130827		
72	BHU M.W.Sheikhan	MianWaliSheikhan	BHU	28.7042252 70.471684		
73	BHU RukanPur	ThulKhair Muhammad	BHU	28.76292696 70.38951179		
74	THQ: Hospital Khanpur.	City Khanpur.	ThQ	28.648220 70.661481	Medical Superintendent	068-5574822
75	RHC Sehja.	Sehja	RHC	28.592741 70.561394	Chief Executive Officer (Health Authority)	068-9230114
76	RHC NawanKot.	NawanKot	RHC	28.801121 70.671717	District Health Officer	068-9230112
77	RHC BaghoBahar.	BaghoBahar	RHC	28.5011 70.60972		

78	RHC ZahirPir.	ZahirPir	RHC	28.811954 70.510973		
79	Govt. Eye Hospital KPR	City Khanpur.	Gov. Eye Hospital			
82	BHU Chak No.131/IL	BaghoBahar	BHU	28.497730494 70.681625605		
83	BHU Bang Bhatta sheikha	do	BHU	28.56293455 70.72380041		
84	BHU Chak No.45/p	Chak No.45/p	BHU	28.4400829 70.53221952		
85	BHU Mari Allah Bachaya.	Mari Allah Bachaya.	BHU	28.53879689 70.63529911		
86	BHU Mud Bhoora	Mud Bhoora	BHU	28.56573868 70.66552894		
87	BHU Chak No.112/NP	Azeem Shah	BHU	28.73970501 70.66133456		
88	BHU Din Pur Sharif.	Din Pur Sharif.	BHU	28.66944728 70.62543631		
89	BHU Gehna Lar	Gehna Lar	BHU	28.682089448 70.590376854		
90	BHU Garhilkhtiar Khan	Garhilkhtiar Khan	BHU	28.663893342 70.526947975		
91	BHU Chak No.1/p	GethaBhutta	BHU	28.6796611 70.735649		
92	BHU Muslim Town	Moeen Abad.	BHU	28.7438142 70.72639447		
93	BHU Chak No.7/p	Neel Garh.	BHU	28.59094809 70.69431882		
94	BHU GhousPur.	Chandia.	BHU	28.850178123 70.547128916		
95	BHU Chachran Sharif.	Chachran Sharif.	BHU	28.87541751 70.46029444		
96	THQ: Hospital, Liaquatpur.	City Liaquatpur.	THQ	28.9314982 70.9478642		
97	BHU Ghazi Pur.	Ghazi Pur.	BHU	28.751505017 70.510237813	Chief Executive Officer (Health Authority) District Health Officer	068-9230114 068-9230112
98	BHU Malik Pur.	JajjaAbbasian	BHU	28.75174628 70.56254266		
99	BHU ThakalArain	Jhooran	BHU	28.80965528 70.62125838		
100	BHU Kotla Pathan	Kotla Pathan.	BHU	28.71247149 70.60244015		
101	BHU Qadir Pur.	Qadir Pur.	BHU	28.89722021 70.61169432		
102	BHU Langi War.	do	BHU	28.89776086 70.58201995		
103	BHU Chak No.94/p	Chak No.94/np	BHU	28.6271289 70.51178462		
104	BHU Latki.	Latki.	BHU	28.560231328 70.563576221		
105	RHC Pacca Laran	Pacca Laran	RHC	28.862139 70.7527923		
106	RHC Feroza	Hayyat Lar	RHC	28.75938 70.822285		
107	RHC Khan Bela.	Khan Bela	RHC	28.964832 70.73642		
108	RHC Tarinda Muhammad Panah.	Tarinda Muhammad Panah.	RHC	29.096734 70.905708		
109	RHC Allah Abad.	Allah Abad.	RHC	28.953562 70.881127		
110	BHU Kandani.	Pacca Laran	BHU	28.82183141 70.76684558		
111	BHU Amin Abad.	Amin Abad.	BHU	28.93850836 70.7931408		
112	BHU Goth Mahi.	Ghooka	BHU	28.9309218 70.9456782		
113	BHU ArifBalouch	Hayyat Lar	BHU	28.77769029 70.76242461		
114	BHU Havail Gharib Shah.	do	BHU	28.802086115 70.731804371		
115	BHU Haroon Abad.	NallaMusani.	BHU	28.862237334 70.830257535		

116	BHU Zamin Shan.	Ahmad Ali Lar.	BHU	28.98445219 70.66286212		
117	BHU Unran	Dufli Kabir Khan	BHU	29.040679336 70.728349686		
118	BHU Allah Jiwaya Lar.	Shedani Sharif.	BHU	28.96219216 70.67836674		
119	BHU Zafar Abad	Zafar Abad.	BHU	28.89165419 70.65229039		
120	BHU Said Pur.	do	BHU	28.84418025 70.67655164		
121	BHU 1/A-Doshakha	Chak No.10/A	BHU	29.054144025 71.031503677		
122	BHU Jan Pur.	Jan Pur.	BHU	29.01254483 70.8164813		
123	BHU Muhammad Daha	Muhammad Daha	BHU	28.97075618 70.91199986		
124	BHU Chak No.25/A	Chak No.25/A	BHU	28.94203171 70.98799244		
125	BHU Chak No.79/A	Chak No.68/A	BHU	28.774228692 70.860711336		
126	BHU Chak No.225/A (Head Farid)	Chak No.225/A	BHU	28.60376308 70.92137244		
127	BHU Chak No.42/A	Chak No.42/A	BHU	28.862060308 70.938779712		
128	BHU Chak No.186/7R	Chak No.186/7R	BHU	28.67798395 70.88005541		
129	BHU Chak No.87/A	Chak No.87/A	BHU	28.782291412 70.917364955		
130	BHU Chak No.150/A	do	BHU	28.74868684 70.95207819		
131	BHU Chak No.45/A	Chak No.46/A	BHU	28.89700564 70.98179938		
132	BHU Chak No.147/A	Chak No.178/7R	BHU	28.85220305 70.99256255		
133	BHU Dashti.	Dashti.	BHU	29.045995474 70.800045133		
134	BHU Shahbaz PurShariqi.	Gull Muhammad Langah.	BHU	29.149265885 70.887436867		
135	BHU Jhok Gulab Shah.	Jhok Gulab Shah.	BHU	29.0603665 70.75523383		
136	BHU DeraFaridi.	do	BHU	29.09336259 70.78777373		
137	BHU KanjkiWali.	TarindaGurgage.	BHU	29.07131932 70.93663261		

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrollment	Incharge Name	Contact Number/ W.App Number
1	GBHS Umar Wada Dashti Liaquatpur	School	X: 29.04558 Y: 70.8002	353	Hazoor Bukhsh	0306-7637203 0324-6392022
2	GBHS Jhok Gulab Shah Liaquatpur	School	X: 29.07382 Y: 70.77754	417	Tariq Mehmood	0333-4061000 0333-5061000
3	GBHS Unran Liaquatpur	School	X: 29.04277 Y: 70.72883	346	M. Iqbal Raza	0301-7727798
4	GGHS Thul Hamza Liaquatpur	School	X: 29.07861 Y: 70.79031	375	Sajid Mehmood Bhatti	0345-8737298
5	GGHS Chachran Sharif Khanpur	School	X: 28.84638 Y: 70.79031	345	Shahida Rafiq	0332-0805538
6	GBHS Chachran Sharif Khanpur	School	X: 28.76202 Y: 70.39062	393	Faiz Muhammad	0307-7321182
7	GBHS Rajanpur Kalan RYKhan	School	X: 28.60752 Y: 70.18271	692	Rashid Mehmood Khan	0303-7676402
8	GGHS Rajanpur Kalan RYKhan	School	X: 28.60788 Y: 70.18292	388	Naila Tahseen	0336-4232688
9	GBHS Abad Pur RYKhan	School	X: 28.69397 Y: 70.25936	467	Mehmood Ul Hassan	0303-7670886 0344-8623864
10	GBHS Bhong Sadiqabad	School	X: 28.42611 Y: 69.91234	469	Muhammad Asif	0313-6310161
11	GGHSS Bhong Sadiqabad	School	X: 28.42407 Y: 69.91086	332	Ghazala Munir	0308-3461428
12	GBHS Machka Sadiqabad	School	X: 28.29810 Y: 69.69756	741	Abdul Latif	0300-2282425
13	GBHS Bakhsh Abad Sadiqabad	School	X: 28.42862 Y: 69.86632	469	Mumtaz Ahmad	0302-9457517 0334-6321870

ANNEX V:LIST OF INDUSTRIES WITH THEIR RISK LEVEL

S#	Industry Name	Location	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
1	Unilever TVT Ltd	Chowk Pathanistan RYKhan	Chemical	068-5874906	Low	Fire/Flood/ Earthquake
2	Sharex Laboratories TVT Ltd	KLP Rd Sadiqabad	Chemical	068-5702831	Low	Fire/Flood/ Earthquake
3	Aziz Gas Industries	Tillu Rd. Sadiqabad	Chemical	068-500460	Low	Fire/Flood/ Earthquake
4	Hammad Cold Storage	New Sabzi MAndi Hakim Colony Khanpur	Chemical	0345-8056754	Low	Fire/Flood/ Earthquake
5	Subhan Allah Ice Factory	Basti Nooray Wali RYKhan	Chemical	0300-8670529	Low	Fire/Flood/ Earthquake
6	Umer Khalid Ice Factory	Basti Nooray Wali RYKhan	Chemical	0300-8671519	Low	Fire/Flood/ Earthquake
7	National Ice factory & Oil Mills	Hospital Rd. Sadiqabad	Chemical	068-5702715	Low	Fire/Flood/ Earthquake
8	Sadat Ice Factory	Jamaldin Wali Rd Sadiqabad	Chemical	0300-875761	Low	Fire/Flood/ Earthquake
9	Chaman Ice Factory	Manthar Rd Sadiqabad	Chemical	068-5702854	Low	Fire/Flood/ Earthquake
10	Sindh Ice Factory	Abid Town Sadiqabad	Chemical	-	Low	Fire/Flood/ Earthquake
11	Al-Jannat Ice factory	KLP Rd Sadiqabad	Chemical	0300-7822446	Low	Fire/Flood/ Earthquake
12	Public Ice Factory	Manthar Rd Sadiqabad	Chemical	0313-6598592	Low	Fire/Flood/ Earthquake
13	Qadri Ice factory	Nawan Kot Rd Khanpur	Chemical	0333-7394976	Low	Fire/Flood/ Earthquake
14	Muslim Cottorn & Ice Mills	Allah Abad Rd Liaqatpur	Chemical	0300-6702238	Low	Fire/Flood/ Earthquake
15	Kamran Industries	Kacha Sadiqabad Rd RYKhan	Chemical	0300-8679064 068-5872664	Low	Fire/Flood/ Earthquake
16	Delta Industries	37 Factory Area RYKhan	Chemical	068-5872664	Low	Fire/Flood/ Earthquake

S#	Industry Name	Location	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
17	Wadood Industries	Adda Bagho Bahar Khanpur	Chemical	068-5571311	Low	Fire/Flood/Earthquake
18	Al-Hilal Model Industries Pvt Ltd	Allah Abad Rd Liaquatpur	Chemical	068-5795850	Low	Fire/Flood/Earthquake
19	Coca Cola Factory	Shahbaz Pur Road	Chemical	0301-8460803	Low	Fire/Flood/Earthquake
20	Ahmed Oil & Ghee Mills	Shahbaz Pur Road	Chemical	0300-8374073	Low	Fire/Flood/Earthquake
21	Ettihad Sugar Mills	Iqbal Abad	Chemical	0321-6708879	Low	Fire/Flood/Earthquake
22	JDW Sugar Mills-1	Jamal Din Wali	Chemical	0345-1077777	Low	Fire/Flood/Earthquake
23	JDW Sugar Mills-2	MukhtiarGarhSadiqabad	Chemical	0321-6500228	Low	Fire/Flood/Earthquake
24	Hamza Sugar Mills	JethaBhuttaKhanpur	Chemical	0300-8661768	Low	Fire/Flood/Earthquake
25	RYK Sugar Mills	Jan PurLiaquatpur	Chemical	0323-4899343	Low	Fire/Flood/Earthquake
26	Chaudhary Sugar Mill	KotSmabaRYKhan	Chemical	068-5882500	Low	Fire/Flood/Earthquake
27	Fauji Fertilizers Co. (FFC)	Macchi Goth Sadiqabad	Chemical	0345-8029425	Low	Fire/Flood/Earthquake
28	Fatima Fertilizers Co.	MukhtiarGarhSaidqabad	Chemical	068-5951000	Low	Fire/Flood/Earthquake

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 Taraqiati 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	AnwerSalimi	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	Capt. (R) Zafar Iqbal Commissioner, Bahawalpur.	062-9250061	062-9250538	0341-0922057	062-9250073 062-9250539
2	Mr. Mehtab Wasim Azhar Deputy Commissioner RYKhan.	068-9230233 068-9230266	068-9230277 068-9230278	0304-0920085	068-9230267
3	Capt. (R) Muhammad Ali Zia DPO Rahimyarkhan.	068-9230301	068-9230304	0333-3336099 0301-8670464	068-9230305
4	Barrister Bilal Saleem, ADC (R) Focal Person for Flood Management RYK.	068-9230226	068-9230230 068-9230277	0324-3889060	068-9230331
5	Abdul Wahid SE, Irrigation, Rahimyarkhan	068-9230090	-	0333-4043555	068-9230093
6	Farhan Shabbir Malik SE, MEPCO Rahimyarkhan.	068-9230160 068-9230158	0689230159	0302-8296312	-
7	Riasat Ali ADC(G) Rahimyarkhan	068-9230287	068-9230288	0300-6449726	-
8	Riasat Ali Secretary, DRTA/AC/Coord. Rahimyarkhan	068-9230273	-	0300-6449726	-
9	Iqrar Hussain DD Agriculture (Ext.) RYK.	068-9230129	-	0300-6753454	--
10	Dr. Hassan Khan CEO, DHA, RYKhan.	068-9230114	-	0300-9679803	
11	Rana Naveed Akhter CEO, DEA, Rahimyarkhan.	068-9230044	-	0300-4653663	--
12	Naveed Sardar DDLG, LG&CD Deptt. RYKhan	068-9230269	-	0306-3134411	-
13	Rana Sajjad Deputy Director Social Welfare, Rahimyarkhan.	068-9230367	-	0314-6581977	068-9230124
14	Ch. Abdul Sattar XEN. Irrigation RYKhan.	068-9230095	-	0300-6347192	068-9230096
15	Mujahid Kaleem XEN, Irrigation Dallas.	068-9230092	-	0304-2616750	--
16	Muhammad Usman XEN, Irrigation, Khanpur.	068-5571564	-	0300-4436614	068-5571564
17	M. Uzman Ch. AC Rahimyarkhan.	068-9230271	068-9230371	0300-1122991 0331-5130465	--
18	Muhammad Saleem AC Sadiqabad.	068-5705533	-	0300-7708721	068-5704433
19	Rana Irfan (Tehsildar) AC Khanpur (Addl. Charge).	068-5571383	-	0308-8880686	--
20	Sarmad Ali Bhagat AC Liaquatpur.	068-5975625	-	0300-1984444	--
21	Dr. Adil Rehman DEO Rescue-1122 RYKhan.	068-9230011	-	0334-6321122	--
22	Dr. Agha Touheed MS-SZH&MC Rahimyarkhan.	068-9230163 068-9230164	-	0300-6700882	068-9230162
23	Syed Touseef Raza CDO, RYKhan.	068-9230224	-	0301-4441223	-
24	Dr. Tahir Gulzar Addl. Director (Livestock) RYKhan.	068-9230124	-	0307-7950487	-
Sr#	Name & Designation of the Officer.	Telephone Nos.		Mobile No.	Fax No.
		Office	Residence		
25	Ch. Shafiq Deputy CO, MC- Rahimyarkhan.	068-9230251 068-9230252	-	0300-9680132	-

26	Rana Mehmood Ali Deputy CO, MC- Rahimyarkhan.	068-9230242	-	0300-8678825	-
27	Zohaib Khan Laghari Deputy CO, MC- Sadiqabad.	068-5801214	-	0300-6710881	068-5801224
28	Mussarrat Abbas Deputy CO, MC- Khanpur.	068-5572039	-	0334-6781060	068-5574277
29	Mussarat Abbas Deputy CO, MC- Liaquatpur.	068-5795123 068-5692211	-	0334-6781060	-
30	M. Altaf Hussain District Nazir	068-9230298	-	0302-7668156	
31	M. Almas Ahmed Tehsildar Rahim Yar Khan	-	-	0300-8677909	-
32	Liaquat Ali Bhatti Naib Tehsildar R.Y.Khan	-	-	0301-7261097	-
33	Haji M. Junaid Khan Tehsildar, Sadiqabad.	-	-	0300-8770007	-
34	Rana Irfan Tehsildar Khanpur	-	-	0308-8880686	-
35	Tahir Mehmood Tehsildar Liaquat Pur	-	-	0300-6710048	-
36	Shahbaz Nadir Incharge Control Room (1122) R.Y.Khan	068-9230183	-	0300-9672032	-
37	Ashiq Mehmood Rescue & Safety Officer (1122) Sadiqabad	068-5702000 068-5702001	-	0302-7631936 0334-7511122	-
38	M. Adeel Ghafaar Rescue & Safety Officer (1122) Khanpur	068-5571722 068-5572722	-	0313-6606343	-
39	M. Imran Sajid Rescue & Safety Officer (1122) Liaquatpur	068-5693222 068-5693221	-	0300-9780314	-
40	Jam Muhammad Naeem System Network Administrator (Focal Person for District Control Room)	068-9230389	-	0333-7414466	
41	Naveed Ahmed Coordinator PDMA, R.Y.Khan	-	-	0331-4368582	-
42	Muhammad Waleed I.T Assistant PDMA, R.Y.Khan	068-5870189 068-5870190	-	0301-5224727	-
43	District Flood Control Room Rahimyarkhan.	068-5870189 068-5870190	-	-	068-5870188
44	Rescue-1122 (Helpline)	1122	-	-	-
45	Rescue-1122 (Control Room)	068-9230183	-	-	-
46	Police (Helpline)	15	-	-	-
47	Police (Control Room)	9230318	-	-	-

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, KotKamu 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	RajanPur 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	ArbabBoota	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	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0302 7652278
38	Muhammad Saleem	31304-2081264-5	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0306 2826340
39	Zahid Hussain	31304-7785981-1	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0301 5253421
40	Ashfaq Ahmed	31304-2018980-3	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0301 7660964
41	Muhammad Jamil	31304-5328661-3	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0300 7826463
42	Naveed Raza	31304-7135204-5	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0302 6532897
43	Muhammad Kashif	31303-1564987-1	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0305 3822160
44	Muhammad Naeem	31304-2018973-1	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0300 3908968
45	Ashfaq Ahmed	31304-2074002-5	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0307 6567850
46	Faraz ul Hasan	31304-4984088-1	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0300 7035562
47	Maddad Ali	31304-9400258-3	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0300 4380577
48	Masoom Ali	31304-163697-7	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0302 7633770
49	Zahid Iqbal	31304-9118932-9	BstiKalarWali, Rasool Pur, Rahim Yar Khan	0300 7824266
50	Abid Ali	31304-1005720-3	BstiKalarWali, 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	DeraMian 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 purRYKhan	0303-6154485
63	M. Kaleem Ullah	31301-7429657-5	Near Civil Hospital Mohalla Sher Muhammad RYK	0313-8779929
64	Sami Ullah	31301-1240712-1	Municipal Colony Mohalla Sher Muhammad RYK	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	TrindaSawaye Khan RYKhan	0304-3569821
68	Tanweer Abbas	31303-6134075-5	Basti Hafiz Abad KotSamabaRYKhan	0305-4928298
69	Muhammad Ishfaq	31303-3187435-3	Basti Hafiz Abad KotSamabaRYKhan	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 PurPanjabianRYKhan	0305-8571450
74	Muhammad Saleem	31303-0162724-9	Fateh PurPanjabianRYKhan	0305-6317833
75	Muhammad Khaliq	31303-5364098-5	Fateh PurPanjabianRYKhan	0301-8677203
76	Muhammad Amin	31303-9153441	Zohaib Abad Colony RYKhan	0305-6361317
77	Muhammad Waseem	31303-3532409-3	Fateh PurArraianRYKhan	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 DaroKhanbraDoulatpurRYKhan	0301-2631036
81	Sajjad Hussain	31303-0724915-3	Basti DaroKhanbraDoulatpurRYKhan	0340-1179820
82	Nazim Hussain	31303-7756273-1	Basti DaroKhanbraDoulatpurRYKhan	0308-7972789
83	Shameer Ahmed	31303-7691199-1	Basti DaroKhanbraDoulatpurRYKhan	0307-7645840
84	Riaz ahmed	31303-2429296-5	Moza Nabi PurDoulatpurRYKhan	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 GarhKhanpurRYKhan	0306-9657249
88	M. Sabir Hussain	31303-1715198-5	Owais Nagar Shah KhanpurRYKhan	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 ZahirpirKhanpurRYKhan	0304-7480098
91	Akhtar Ali	31304-6713476-9	Basti KallarWaliSadiqabad	0300-6714782
92	Muhammad Akbar	31303-9429872-3	Basti KallarWaliSadiqabad	0303-3160900

S#	Volunteer Name	CNIC	Address	Contact Number and Email
93	Zubair Akbar	31303-1404397-7	DakKhana Khas Sadiqabad	0302-2320307
94	Muhammad Waseem	31303-5452173-1	DakKhanaAkram 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 ChanawalChak 9N/P Sadiqabad	0308-7476884
99	Muhammad Asif	31304-7054908-9	Chak 21 n/P Jamal dilwali Rd Sadiqabad	0304-4355349
100	Muhammad Nasir	31304-5218178-5	Chak 21 n/P Jamal dilwali 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	BstiChanawarSadiqabad	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 Jawaidd Colony Sadiqabad	0300-6721761
110	Niaz Ahmed	31304-3896659-9	Basti chanwarchak 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 PurKhanpur	0302-9716216
114	Muhammad Ajmal	31301-6440217-5	Mohalla Muhammad PurKhanpur	0302-7636058
115	M. Arshad Hashmi	31301-1491354-9	ZahirPirKhanpur	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 KorayanKhanpur	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 MaralKhanpur	0322-8713076
122	Abdul Rasheed	31302-3439604-9	Faisal Colony Khanpur	0301-2604050
123	Riaz Abbas	31301-4367728-1	Basti Ali Muhammad Khanpur	0306-3085066
124	Tanveer Abbas	31303-6134075-5	Basti Hafiz Abad Khanpur	0305-4928298

S#	Volunteer Name	CNIC	Address	Contact Number and Email
125	Muhammad Ishfaq	31303-3187435-3	Basti Hafiz Abad Khanpur	0303-6128564
126	Waheed Arshad	31301-0802230-3	Khan colony zahirpirKhanpur	0314-6122022
127	Muhammad Arshad	31301-1491354-9	Basti Abdul Sattar ZahirpirKhanpur	0301-7622722
128	M. Ramzan	31302-9283060-1	MozaDashtiThulzaLiaqatpur	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	DakKhanaLiaqatpur	0304-7504699
133	Khurram Shahzad	31302-6094775-3	DakKhanaLiaqatpur	0343-7952858
134	Abdul Majeed	31302-1979907	DakKhanaLiaqatpur	0300-7823190
135	Muhammad Irfan	31302-1592922-9	DakKhanaLiaqatpur	0300-8675330
136	Muhammad Ajmal	31302-5212041-7	Mohalla Sufi Jamal Liaqatpur	0306-7612220
137	Abdul Wahab	31302-0390863-9	DakKhanaLiaqatpur	0303-0741544
138	Saleem Ahmed	31302-7195747-5	Moza Lakhani KhanbelaLiaqatpur	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	KhwajganKhanbelaLiaqatpur	0301-7624464
147	M. Asghar	31302-9635019-7	Basti Chahbudhan Khan Liaqatpur	0304-8049226

ANNEX VIII (B) : LIST OF SWIMMERS/DIVERS

S#	Name	Address	Contact Number and Email	Time Required to be on-board
1	Asif-ur-Rehman	R.Y.Khan	0300-6344115	
2	M. Hafeez Zahid	R.Y.Khan	0300-6754405	
3	Faran Jilani	R.Y.Khan	0334-7337863	
4	M. Saleem	R.Y.Khan	0302-4746603	
5	Sajjad Hussain	R.Y.Khan	0300-6858746	
6	Shahid Mehmood	R.Y.Khan	0333-9061122	
7	Tahir Mubashir	R.Y.Khan	0302-6994919	
8	Atta Muhammad	R.Y.Khan	0301-6782068	
9	Waqas Ahmed	R.Y.Khan	0307-7823700	
10	Iqbal shah	R.Y.Khan	0301-7610293	
11	Ijaz Ahmed	R.Y.Khan	03007638462	
12	M. Shahzaib	R.Y.Khan	0300-2200067	
13	Shahbaz Zulfiqar	R.Y.Khan	0332-7332894	
14	Tanveer	R.Y.Khan	0307-8921122	
15	Nasir Ali	R.Y.Khan	0313-6606004	
16	Zahid Razzaq	R.Y.Khan	0345-8049765	
17	Zeeshan Ahmed	R.Y.Khan	03087487850	
18	Usman Latif	R.Y.Khan	0300-6743497	
19	Irfan Sajid	R.Y.Khan	0300-2600098	
20	M. UmerDaraz	R.Y.Khan	0303-6151122	
21	Asif Mukhtiar	R.Y.Khan	0302-4719606	
22	Asif Ali	R.Y.Khan	0300-5187020	
23	Siraj Ahmed	R.Y.Khan	0303-6164869	
24	Jamil Ahmed	R.Y.Khan	0307-7921122	
25	Asif Akhtar	R.Y.Khan	0302-7339822	
26	Zulfiqar Ali	R.Y.Khan	0300-6561122	
27	Maqbool Ahmed	R.Y.Khan	0300-6721623	
28	Muhammad Zahid	Sadiqabad	0306-6061122	
29	Hafiz M. Shafiq	Sadiqabad	0300-3831122	
30	Rafaqat Ali	Sadiqabad	0302-8766831	
31	M.Imran	Sadiqabad	0300-6756120	

S#	Name	Address	Contact Number and Email	Time Required to be on-board
32	Akhtar Ali	Sadiqabad	0300-2770697	
33	Arif Mehmood	Sadiqabad	0333-6403650	
34	Liaquat Ali	Sadiqabad	0300-9160924	
35	Sajid Mahmood	Sadiqabad	0342-7178503	
36	Zahid Hussain	Sadiqabad	0300-8536241	
37	Munir Ahmed	Sadiqabad	0333-7418621	
38	M. Afzal Ashraf	Sadiqabad	0303-3569490	
39	Saeed Ahmed	Sadiqabad	0303-6177220	
40	Ghunda	Sadiqabad	0302-7660401	
41	Shafqat Mahmood	Sadiqabad	0300-8771070	
42	Qamar Ehsan	Sadiqabad	0300-6749274	
43	M. Shafiq Azam	Sadiqabad	0300-6726998	
44	Qaiser Nadeem	Sadiqabad	0300-8779921	
45	M. Jahangir	Sadiqabad	0300-7035102	
46	M. Hussain	Sadiqabad	0308-3117084	
47	Farooq Ahmed	Sadiqabad	0304-7464337	
48	Muhammad Aamir	Sadiqabad	0306-5866747	
49	Ameen Ullah	Khanpur	0303-6891122	
50	M.Kashif Rafiq	Khanpur	0315-7551122	
51	Shahid Razzaq	Khanpur	0312-7491122	
52	Touqeer Iqbal	Khanpur	0300-6735001	
53	M. Waseem Abbas	Khanpur	03074164898	
54	Muhammad.Abid	Khanpur	0303-5002940	
55	Farukh Abbas	Khanpur	0303-8080588	
56	Tariq Saddique	Khanpur	0301-3689428	
57	Muhammad Kashif	Khanpur	0301-2052523	
58	Dilshad Sultan	Khanpur	0300-8774228	
59	Asim Shahzad	Khanpur	0303-6164395	
60	Abdul Waqas	Khanpur	0345-8040416	
61	M.Tahir	Khanpur	0300-9670340	
62	M. Shakeel	Khanpur	0307-7647141	
63	M.Nasir	Khanpur	0334-6650410	

S#	Name	Address	Contact Number and Email	Time Required to be on-board
64	Shahbaz Sharif	Khanpur	0333-6361126	
65	Farhad Khan	Khanpur	0334-3573010	
66	Muhammad Shahid	Khanpur	0304-7464981	
67	Muhammad Ilyas	Khanpur	0300-6341122	
68	H.MuhammadAnwaar	Khanpur	0305-3200836	
69	Ali Usman	Khanpur	0300-5185083	
70	M. ZunnorainSafder	Khanpur	0306-1466456	
71	Muhammad Nasir Ali	Khanpur	0307-7563588	
72	Muhammad Yousaf	Khanpur	0308-2880157	
73	Muhammad Yousaf	Khanpur	0303-9730644	
74	Adeel Shoukat	Khanpur	0301-7650765	
75	M Shabir	Khanpur	0301-8147605	
76	Muhammad Alamgir	Khanpur	0312-9761122	
77	Tariq Muhamood	Khanpur	03337477970	
78	Fazal Hussain	Khanpur	0346-7864740	
79	Muhammad Naseem	Khanpur	0301-7025481	
80	Imran Ali	Khanpur	0346-5314218	
81	Saif Ullah	Khanpur	0306-7650199	
82	Muhammad Azhar	Khanpur	0344-8621213	
83	Muhammad Shabir	Khanpur	0302-7666103	
84	Muhammad Tariq	Khanpur	0302-2588994	
85	Zubair Nawaz	Khanpur	0300-3987858	
86	M. Waseem	Khanpur	0303-7662323	
87	Muhammad Tanveer	Khanpur	0336-3601122	
88	M.Imran Sajid	Liaquatpur	0300-9780314	
89	Muhammad Rafiq	Liaquatpur	0307-4241342	
90	M. Imran Aslam	Liaquatpur	0303-8753753	
91	Muhammad Akram	Liaquatpur	0346-2372895	
92	Adnan Razzaq	Liaquatpur	0308-7705206	
93	M.Arif Javeed	Liaquatpur	0300-6745501	
94	Farhad Iftikhar	Liaquatpur	0306-6733884	
95	Muhammad Abbas	Liaquatpur	0307-3724456	

S#	Name	Address	Contact Number and Email	Time Required to be on-board
96	Muhammad Ahmed	Liaquatpur	0300-2379009	
97	Muhammad Numan	Liaquatpur	0334-7330526	
98	Muhammad Asif	Liaquatpur	0314-4414950	
99	M. Shahid Shah	Liaquatpur	0345-8146618	
100	Ahmed Hassan	Liaquatpur	0314-6710634	
101	M.Farooq Sajjad	Liaquatpur	0344-8649456	
102	Muhammad Sabir	Liaquatpur	0311-2794823	
103	Ghulam Muhammad	Liaquatpur	0302-2312577	
104	Muhammad Akmal	Liaquatpur	0306-3651836	
105	Muhammad Nadeem	Liaquatpur	0303-4099242	
106	Rehan Nasir	Liaquatpur	0300-7034795	
107	M.Tariq Sajjad	Liaquatpur	0300-4229273	
108	Muhammad Arshad	Liaquatpur	0302-7869568	
109	Muhammad Bilal	Liaquatpur	0343-8617746	
110	Muhammad Sajid	Liaquatpur	0347-3755060	
111	Muhammad Sufian	Liaquatpur	0300-8996606	
112	H. Zaheer Abbas	Liaquatpur	0300-6740616	
113	Nadeem Ehsan	Liaquatpur	0346-8490611	
114	Umar Bashir	Liaquatpur	0301-7729005	
115	Usamn Ghani	Liaquatpur	0300-3974237	
116	Najeeb Ullah	Liaquatpur	0302-7620022	
117	M.Azhar Ajmal	Liaquatpur	0301-2318733	
118	Muhammad Shan	Liaquatpur	0301-2835670	
119	Muhamamd Tanveer	Liaquatpur	0300-2715062	
120	Muhammad Shahzad	Liaquatpur	0307-0491050	
121	M.Yasir Rafique	Liaquatpur	0306-1371122	
122	Muhammad Jameel	Liaquatpur	0300-7808768	
123	Ashfaq Ahmed	Liaquatpur	0300-2996361	
124	Muhammad Naeem	Liaquatpur	0300-2324604	
125	Nasir Mahmood	Liaquatpur	0300-6720038	
126	Irfan Nasir	Liaquatpur	0345-8017994	
127	Muhammad Akbar	Liaquatpur	0302-7626813	

S#	Name	Address	Contact Number and Email	Time Required to be on-board
128	Mehboob Hussain	Liaquatpur	0301-7744043	
129	Muhammad Jmsheed	Liaquatpur	0303-8422823	
130	Muhammad Ismaeel	Liaquatpur	0344-4977054	
131	Muhammad Naveed	Liaquatpur	0342-8675056	
132	Kashif Mehmood	Liaquatpur	0302-6905414	
133	Mushtaq Ahmed Saeedi	Liaquatpur	0306-8030602	
134	Ghulam Murtaza	Liaquatpur	0301-6995898	
135	Muhammad Zahid	Liaquatpur	0301-7524788	
136	Ghulam Fareed	Liaquatpur	0300-2907067	

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		0300-3183333
NA-177-RYK-III	MakdoomKhusroBakhtiar		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	MianShafi Muhammad		0300-6704429
NA-179-RYK-V	Ch. Javed Iqbal Warraich		0300-8674107	PP-259-RYK-V	Makhdoom HashamJawanBakhat	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						
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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)
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P2: Deceased Person Reporting Proforma

District: _____

Date: _____

S#	Name of deceased	Father' s name	Address	Domicile	Gender	Age	CNIC	Cause of death	Date of death	Place of death	Marital status	Next of kins (Name and Contact and CNIC etc.)	Verifying Officer (Name, Designation and Contact)	Compensation Paid or not
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P3: Injurd Person 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
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P4: Cattle Head Perished

District: _____

Date: _____

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

District: _____

Date: _____

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

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 yearolds- 15 children:2 facilitators
	5-9 year olds-20 children : 2 facilitators
	10-18 yearolds- 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-	Khangarh Flood Bund	153,000
7	-do-	Shehr Sultan Flood Bund	134000
8	Jampur Construction Division	Jampur Flood Bund	170720
9	-do-	Laskani Flood Bund	26365
	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 ZafarwalaKingra 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	Punjnad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
	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	KotAdu 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
	Punjnad	7	1.5	2	3	4.5	6
RAVI	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4.25	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
SUTLEJ	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
	Islam	3	0.5	0.8	1.2	1.75	2.25
	Mailsi Syphon	4	0.75	1.1	1.5	2.25	3

ANNEX XV: LIST OF BASIC TERMS

Acceptable risk

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

Biological hazard

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

Capacity

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

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

Capacity building

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

Climate change

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

Coping capacity

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

Disaster

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

Disaster risk management (DRM)

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

Disaster risk reduction/disaster reduction

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

Early warning

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

Emergency management

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

Forecast

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

Geological hazard

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