

DISTRICT DISASTER MANAGEMENT PLAN 2022

Division: GUJRANWALA

District: GUJRAT



IDP Camp in 2009



Building Collapse (Gujrat - 2021)



Floods in 2014



Fire incident at Alina Center, Gujrat (2019)

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XX

Estimated number of people at risk of **hill torrent** in 2021

0%

of total population

Risk: Low

XX

Estimated number of people at risk of **Hill Torrent** in 2021

0%

of total population

Risk: Low

XX

Estimated number of people at risk of **earthquake** in 2021

0%

of total population

Risk: Low

XX

Estimated number of people at risk of **epidemic (COVID-19)** in 2021

0.23%

of total population

Risk: Low

EXECUTIVE SUMMARY

District Gujrat has three tehsils: GUJRAT , KHARIAN and SARAI ALAMGIR. It is home to more than 2.7 Million people. District Gujrat is boundaried by two rivers i.e. River Chenab along tehsil Gujrat and River Jhelum on the border of Sarai Alamgir tehsil .Since 1966 , 7 major floods have struck district Gujrat & caused considerable loss of lives and property.

As pottery is one of the major industries based in the district , there are numerous incidents of burning of labourers. There have been episodes of train derailment in and around the vicinity of District Gujrat. Mercifully , there are three THQ hospitals, DHQ and Trama Center in the district . CMH in kharian cantt and its famous burn Center are also an asset. The purpose of this District Disaster Management plan is to define the roles and fix responsibility of each department and stakeholders, so that response to any disaster is well-cordinated and well-executed. Two rivers are upon the boundary of District Gujrat.

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	2756110
2.	No. of Tehsils	3
3.	No. of UCs	117 Rural, 12 Urban
4.	No. of Revenue Estates	1084
5.	Population Density (people per km ²)	93 (people per km ²)
6.	Family Size	4.6 Per House
7.	Pop Growth Rate	1.90
8.	PCI	
9.	District GDP/Annual Income	
10.	Poverty Rate	13%
11.	Patient/Doctor Ratio	65
12.	AMR	
13.	IMR	65/1000
14.	MMR	22/1000
15.	Literacy Rate	62.2%
16.	Global Acute Malnutrition (GAM) rate	12 %
17.	Severe Acute Malnutrition (SAM) rate	4%
18.	Percentage of population having access to clean drinking water	
19.	Annual Crime	3307 in 2020 - 10005 in 2021

Population

Total	Male (Above 18)	Female (Above 18)	Minor (M) (Less than 18)	Minor (F) (Less than 18)	Vulnerable People (PLWs, disabled, aged)
2,756,110	1,335,339	1,420,628	143		

Source/Note: Click here to enter text.

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

Source/Note: Click here to enter text.

Area (in acres)

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
788,757	639,058	339,059	299,999

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
62.2%	%	%	%	%	%	%

Source/Note: Click here to enter text.

Government Schools

Schools		Enrollment	
Total/ Overall		1395	323058
Boys	Primary	356	54207
	Middle	95	24357
	High	149	79214
Girls	Primary	523	52355
	Middle	119	31403
	High	155	81463
Co-Education	Primary		
	Middle		
	High		
Special Education			794

Private Schools

Schools		Enrollment	
Total/ Overall		1227	317229
Boys	Primary	85	38741
	Middle	420	91425
	High	295	40273
Girls	Primary	37	19010
	Middle	204	88514
	High	186	39266
Co-Education	Primary		
	Middle		
	High		
Special Education			

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution						
No of Students						

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	151	11	1		163
Annual OPDs	552,054	537,937	397,552		
No of beds	390	442	322		1154
Doctors Available	65	23			88
Paramedical staff	502	74			576
Ambulances available					
Mobile Medical Units					

Livestock: Small Animals (goats, sheep etc.):

Big Animals (cows, buffalos, camel etc.)

115

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
%	53%	%	%	%	%	%	%	%	%	%

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	2014	15000	06		709	09	1.6 million	
2								
3								
4								
5								

6								
7								
8								
9								
10								
11								
12								

Disaster History – Other disasters (since 1970)

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

General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Mandi Bahauddin, Gujranwala, Sialkot, Jhelum
Topographical Features	Pabbi Forest
Weather/Climate pattern	e.g., max. and min. temperature, annual precipitation, storms, heat waves, snow fall etc. max Temperature (°C) 43 min Temperature (°F) 9 Precipitation / Rainfall (mm) 230 Storms kmph 16.5
Major Rivers	Chenab Gujrat: Head Marala, Head Khanki Jhelum Sarai Alamgir: Head Jaggu
Major Nullahs / Streams	Bhimber, Bhinder, Halsi and Dawara
Motorway/Highway	Vulnerable points of motorway/highway Gujrat Shadiwal Jokalian Phalia road Km No.5 to 20 District Gujrat (Provincial road)
Railways	Vulnerable points of Railway Alexandra Railway Bridge Chenab Alexandra Railway Bridge breaching section

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

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

Major Embankments/Bunds

Name of Embankment	Length (km)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/ vulnerable Points
Haripur bund	5	Wazirabad	Wazirabad	
Spur No. 1 U/S Alexandra Bridge.	7753'	Gujrat	Gujrat	Satisfactory Condition
Spur NO.2 near Pandi village	8805'	Gujrat	Gujrat	Satisfactory Condition
Mole head prong U/S side of spur No.2.	450'	Gujrat	Gujrat	Satisfactory Condition
Slopping stud U/S spur No. 2 near village Patwan converted in Hockey spur.	1630'	Gujrat	Gujrat	Satisfactory Condition
Spur No. 3 near kotli village.	3980'	Gujrat	Gujrat	Satisfactory Condition
Spur No. 4 near Dera Nasir.	2657'	Gujrat	Gujrat	Satisfactory Condition
Slopping stud U/S spur No. 4 near village kot Ghulam.	1056'	Gujrat	Gujrat	Satisfactory Condition
Spur No. 5 near Lambore village	4235'	Gujrat	Gujrat	Satisfactory Condition
Spur No. 6 near kot Nikka village.	3590'	Gujrat	Gujrat	Satisfactory Condition
Spur No. 7 near Dawara Nallah.	3847'	Gujrat	Gujrat	Satisfactory Condition
Guide bank/spur No. 8 near Shahbazpur village.	1925'	Gujrat	Gujrat	Satisfactory Condition
Slopping stud U/S spur No. 8 near village Changanwali.	2070'	Gujrat	Gujrat	Satisfactory Condition
Guide bank/spur No. 9 near Dera	1820'	Gujrat	Gujrat	Satisfactory Condition

Hakim Ali.				
Guide bank spur No. 10 near Sajawal village.	1760'	Gujrat	Gujrat	Satisfactory Condition
Guide bank/Spur No. 11 near Chopala village.	1790'	Gujrat	Gujrat	Satisfactory Condition
Restoring plug bund of river creek near Shampur khokhran in District Gujarat (FPSP).	900'	Gujrat	Gujrat	Satisfactory Condition
Protective measure against erosion of River Chenab to Shrines of Hazrat Ammoon and Hazrat Tanooh (Aleh Salam) near village Sheikh Chugani in District Gujarat.	465'	Gujrat	Gujrat	Satisfactory Condition
J-head spur near village Shampur.	2394'	Gujrat	Gujrat	Satisfactory Condition
Guide wall spur near village nut sharki.	1013'	Gujrat	Gujrat	Satisfactory Condition
Construction of Inverted Hockey Stud No. 1&2 near village Behlolpur on right bank of River Chenab .	520'	Gujrat	Gujrat	Satisfactory Condition
Gunda Bund No. 1	833'	Gujrat	Gujrat	Satisfactory Condition
Gunda Bund No. 2	442'	Gujrat	Gujrat	Satisfactory Condition
Construction of Guide Wall Spur near village Kot Ghulam on right bank of River Chenab.	973'	Gujrat	Gujrat	Satisfactory Condition
J-head spur near village Samma Mohla.	2887'	Gujrat	Gujrat	Satisfactory Condition
GUJRAT FLOOD BUND	54200	Gujrat	Gujrat	RD 22-23 & RD 27
MUSA KAMALA FLOOD BUND	15000	Kharian	Gujrat	Satisfactory Condition

BHIMBER LEFT BUND	18000	Gujrat	Gujrat	Satisfactory Condition
LALAMUSA FLOOD BUND	81250	Kharian	Gujrat	RD 9-10
BHIMBER RIGHT BUND	37000	Gujrat	Gujrat	RD 3-4 & 9-10

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		
Right Marginal Band Qadirabad	Head Khanki	X: 32.402921 Y: 73.967535					
		X: Y:					
		X: Y:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
Gujrat-1 Grid Station	132 KV	32°33'46.18"N 74°03'06.98"E	Kharian Grid Station Lalamusa Grid Station	132 KV 132 KV	32°39'14.85"N 73°43'02.36"E
Gujrat-2 Grid Station	132 KV	32°35'04.52"N 74°05'11.72"E	Mangowal Grid Station	132 KV	X: Y:
Ratti Grid Station Gujrat Jalal Pur Jattan Grid Station Awan Sharif Grid Station Dinga Grid Station	132 KV 132 KV 132 KV 132 KV	32°33'13.12"N 74°05'57.90"E 32°39'29.94"N 74°13'39.43"E 32°50'36.58"N 74°14'30.10"E	Shadiwal Power House	12 MW	X: Y:

Airport / Landing Strips

Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
Landing Strip	Bhimber Road	32°37'14.46"N 74°04'32.46"E			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:

Govt. storage facilities/warehouses in the district

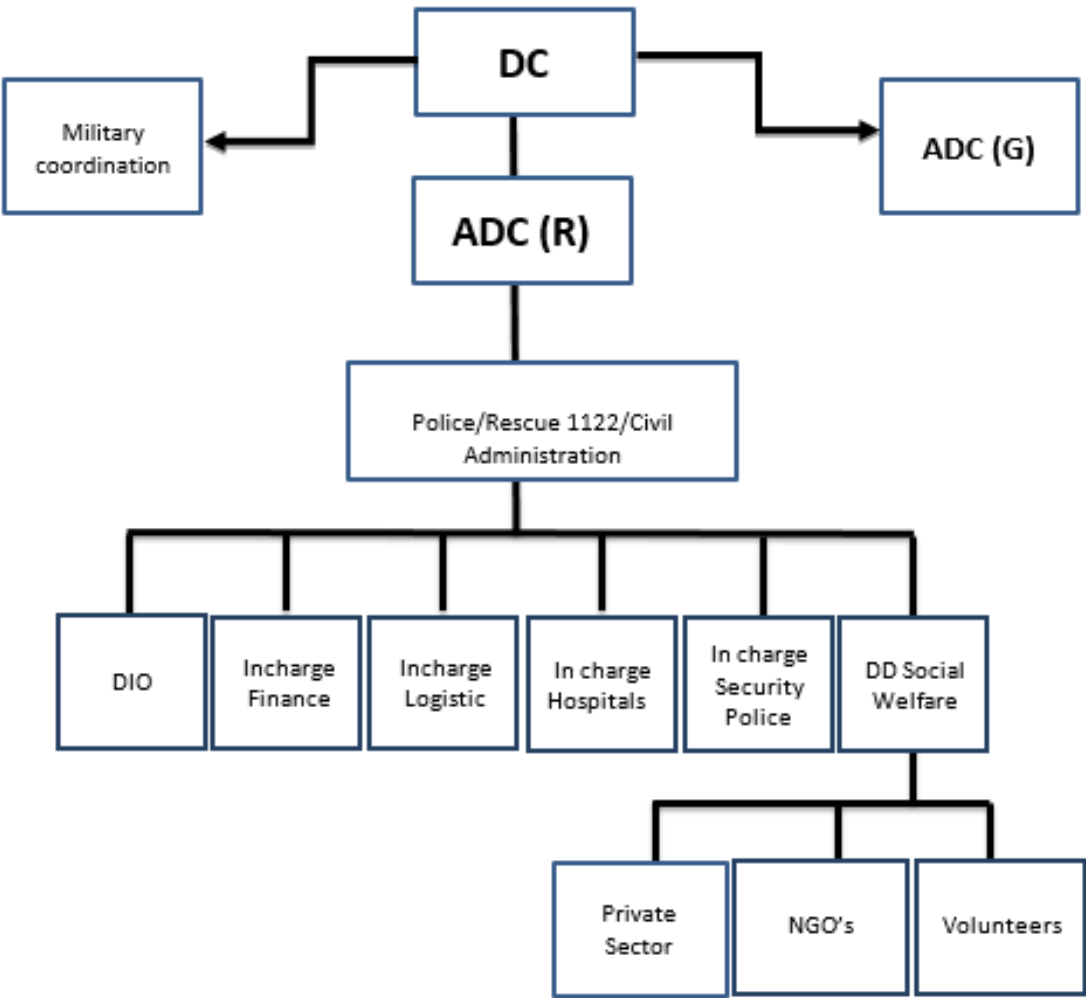
Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
		X: Y:			X: Y:
		X: Y:			X: Y:

[illegible]

Source: DC complex

COORDINATION MECHANISM

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



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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

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

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

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

Checklist for Revenue Department:

- ☐ Survey of entire District (Preparation of Village level information by Patwari)
- ☐ Identification of Low lying, medium and high: vulnerability levels with flood level
- ☐ Liaison of Patwari with Numberdars of their respective villages
- ☐ Contacts of all revenue staff posted near river belts and their output in flood prone areas
- ☐ List of Numberdars with their contacts, volunteer from low lying settlements with contact numbers
- ☐ Prepare list of vulnerable villages and make an estimate of likely affected population in such villages in the event of flood
- ☐ Name and contact numbers of private boat owners and operators Announcement of Flood Warning at settlement level – Patwari responsible Forced evacuation with police
- ☐ Rapid assessment for relief goods and ration provision Coordination and reporting
- ☐ Carry out survey of entire flood affected areas to assess losses in collaboration with Agriculture, Livestock and Education Department
- ☐ Conduct crop damaged/ house damaged surveys

Tehsil / Town Municipal Administration (TMA)

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

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

District Disaster Management Authority (DDMA)

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

- ix. Executive District Officer (Works & Services)
- x. Executive District Officer (Health)
- xi. Executive District Officer (Education)
- xii. Executive District Officer (C&D)
- xiii. SP Special Branch
- xiv. XEN Irrigation / Public Health
- xv. District officer Civil Defense
- xvi. Administrators of Tehsil Municipal Administrations
- xvii. All Tehsil Municipal Officers in District
- xviii. District Emergency Officer, Rescue 1122 (Secretary)
- xix. Representative of Red Crescent
- xx. Such other District level Officers to be appointed by District Government

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

Role of Rescue 1122 in districts during disaster

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

Pre-disaster Check list for DDMA

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

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

Disaster Emergency Control Room (functions and responsibilities)

A Disaster Emergency Control Room working around the clock will be established at district level for effective coordination and mutual support among the different departments and agencies.

Functions of Control Room

Receipt of warnings

Warnings of natural disaster (e.g., floods, earthquakes etc) will be issued in the first instance by the bureau of meteorology and the officer in charge is responsible to ensure that the information is immediately forwarded to the chairperson of the district emergency board. In the event of a manmade disaster warning would be issued by the designated control authority (Police, Rescue 1122 etc) to the chairperson.

Warning distribution

Upon the implementation of this plan, all public warnings will be distributed through the Disaster Co-ordination centre upon recommendation of the relevant control authority and on the authorization of the Chairperson.

Public information

The distribution of the contact or telephone numbers to the public for disaster information will be the responsibility of and at the discretion of the Chairperson.

Coordination among different departments and agencies

It will be responsible for the coordination among different departments and agencies. The required resources will be mobilized and provided at the operational site.

Reporting

Any request for assistance from outside the district is to be made by the Chairperson.

Checklist for Control Room:

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

Checklist for Relief Camp Incharge:

- ☐ List of staff displayed with name and department teams will work in shifts
- ☐ Presence of representatives of all service providers i.e., Health, livestock, Rescue 1122, Civil Defence etc.
- ☐ No movement without the permission of Centre Incharge
- ☐ Each shift in-charge to contact District Control Room on arrival and then on departure
- ☐ In-charge will keep close liaison with SHO of the respective area
- ☐ No of affectees in camp (sick, aged and children) shall be communicated daily
- ☐ Availability of at least one emergency vehicle at centre 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 centres 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 Pakistan Army's resources are employed for immediate search, rescue and evacuation. The Army is called in the 'Aid of Civil Power' only when a disaster overwhelms the resources at the disposal of the Government of Punjab. Search, rescue and evacuation are the primary responsibilities of the 'Disaster Response Force' so if the resources of this force fall short, the Army is immediately called in. The Army's setup in Punjab is administratively divided into six Corps with a Corps Commander leading each Corps. The District Coordination Officer of the affected district would request the relevant Army Authorities for aid of Army upon the approval of the Home Department. The Standard Operating Procedure of requesting the support of the Army is to route the DC's request through Home Department, and the Ministry of Defense. The Ministry would inform the General Headquarters (GHQ) and officers at GHQ would request the relevant Corps Commander to activate the Garrison Officer Incharge and the Brigadier responsible for leading the on-ground operations. PDMA has equipped the Army with 850 boats for rescue and evacuation. In addition to the on-ground movement, the Army can also provide the necessary air support for reconnaissance, relief and rescue missions. PDMA pays for the maintenance expenditures of the 850 boats mentioned earlier. In the same manner, all of Army's expenditures on disaster response are debited to the requisitioning civil authority.

The Army plays a substantial role in the opening of breaching sections. The Irrigation department is responsible for the maintenance of manageable discharge rates in the major rivers of Punjab. If the water flow exceeds a set discharge rate, the breaching section is opened with the help of explosives and excessive water is diverted into a designated area. The Breaching Section Committee responsible for the opening of the section, contains a military representative, which is usually a representative of the respective formation Headquarters not below the rank of Lieutenant Colonel. In case a disaster disrupts the existing telecommunication channels in a certain area, the Army would spearhead or assist the installation of wireless stations. In case of high floods, the respective Corps Commander would setup a Flood Relief Committee, consisting of but not limited to Commander Corps Engineer, Commander Corps Signals, Chief of Staff, Colonel General Staff, Colonel Administration etc.

Volunteer Network

The office of Civil Defence assists in the evacuation of people and their household properties from the disaster affected areas. The office engages a large number of volunteers for search, rescue, evacuation and disbursement of relief goods. These volunteers generally known as "Razakars" are usually trained in swimming, basic rescue techniques, first aid etc. Razakars build their skills in simulation and mock exercises. The Civil Defence collaborates with Punjab Emergency Services (Rescue 1122) in sophisticated search, rescue and evacuation operations.

The District officer organizes mobile squads of Razakars and scouts in collaboration with local wardens and scout organizations to assist local administration/army, Rescue 1122 in evacuation and other disaster response activities. Razakars manage and utilize generators, search lights, and other lifesaving equipment. Razakars that know how to swim and dive are utilized for specialized water rescue. Razakars provide first aid to injured victims before transporting them to hospitals. These volunteers also assist the fire brigade in rescue, and Health department's representatives in the treatment of injured victims. The Civil Defence also assists the District Administration and Police in setting up information system for members of public, whose relatives, friends and family members are missing.

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Hassan Raza	34401-6815376-5		0345-1187773		
2	Shuja ur Rehman	34201-0730197-1		0346-6217232		
3	M Abu Bakar	34201-3817161-3		0331-6243119		
4	Ghulam Fareed	34403-5842400-3		0343-7519008		
5	M Noman	34202-1023096-7		0332-3309701		
6	Asif Mehmood	34201-9543346-1		0305-6069617		
7	Saqib Iqbal	34201-5608231-7		0331-6291840		
8	Ghulam Hussain	34401-4433454-5		0341-1274125		
9	Hais Rehman	34201-2103669-7		0305-4228722		
10	Aitzaz Ahmed	34101-9062599-3		0306-4918981		
11	Sibte Hassan	34201-5826203-5		0340-6172988		
12	Moazam Hussain	34403-0157413-7		0305-9800372		
13	Ahmed Arshad	34201-0686667-9		0321-6231620		
14	Hasham Javaid	34201-3410505-3		0340-7630830		
15	M Irfan	34201-4605262-9		0300-9577868		
16	M Bilal	34201-4152249-1		0346-6167804		
17	Ali Raza	34202-7616231-1		0341-6215973		
18	M Hashim iqbal	34202-4470569-9		0337-4996296		
19	Umer Shahzad	34202-8498629-5		0348-6158746		
20	Kashif	34202-3830470-3		0324-5682895		
21	Syed Shahziab	34201-3100781-7		0346-0770688		

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
22	Zoriaz Ali	34202-4589012-3		0302-6173110		
23	Sohaib Ahmed	34201-7967271-3		0340-3602139		
24	Malik Abdul Rehman	34201-9115213-3		0333-8483144		
25	Shoaib Ahmed	34202-8256609-5		0343-6233357		
26	M. Usman	34202-1311826-5		0306-0618927		
27	Imran Munir	34403-6232039-9		0300-3003231		
28	Suleman Aqeel	34201-9063657-1		0302-6657060		
29	Suleman Arif	34201-9033880-1		0307-6557855		
30	Sikandar Bilal	34201-6100879-1		0311-7846946		

RISK ANALYSIS

1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	4	3	12 (M)
Urban Flooding	1	2	2 (L)
Flash Floods	3	2	6 (L)
Hill Torrent	4	2	8 (L)
Glacial Lake Outburst Flood (GLOF)	0	0	0 No Risk
Landslide	4	3	12 (M)
Tornado			
Earthquake			
Drought			
Epidemic			
Fire Incidents	1	1	2 (L)
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	4	4	2 (L)
Environmental Hazards (industrial accidents, severe pollution etc.)			

Risk = Impact x Likelihood

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

2. Hazards

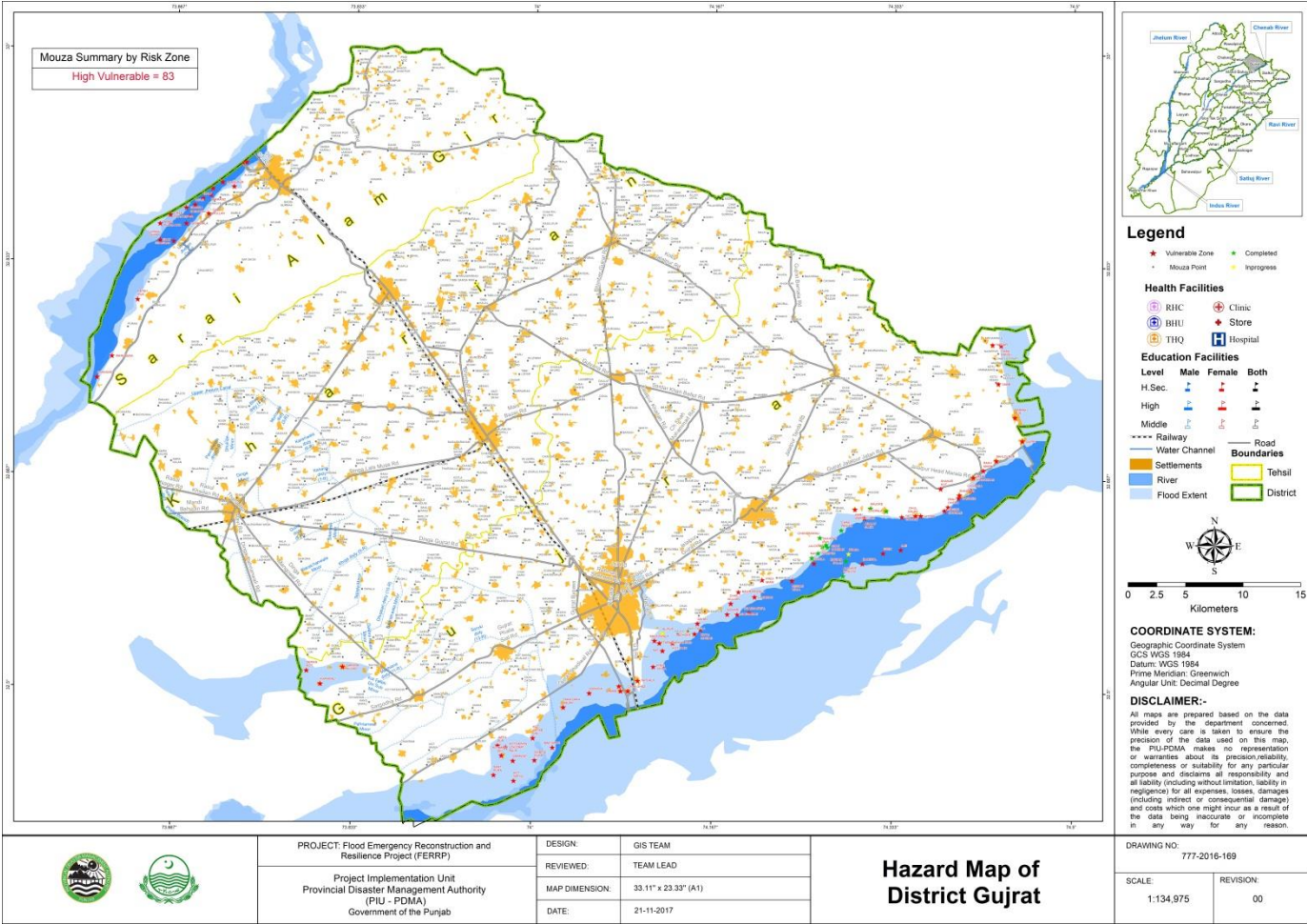
- *Disasters occurred over the past two to three decades and their impact on communities and development sectors*
- *Provide a brief description of the hazards being planned for (medium and high risks), including potential location that could be affected;*
- *Briefly outline the triggers*

⇒ Floods are the most commonly occurring natural disaster that hit GUJRAT district quite frequently

⇒ Triggers Include

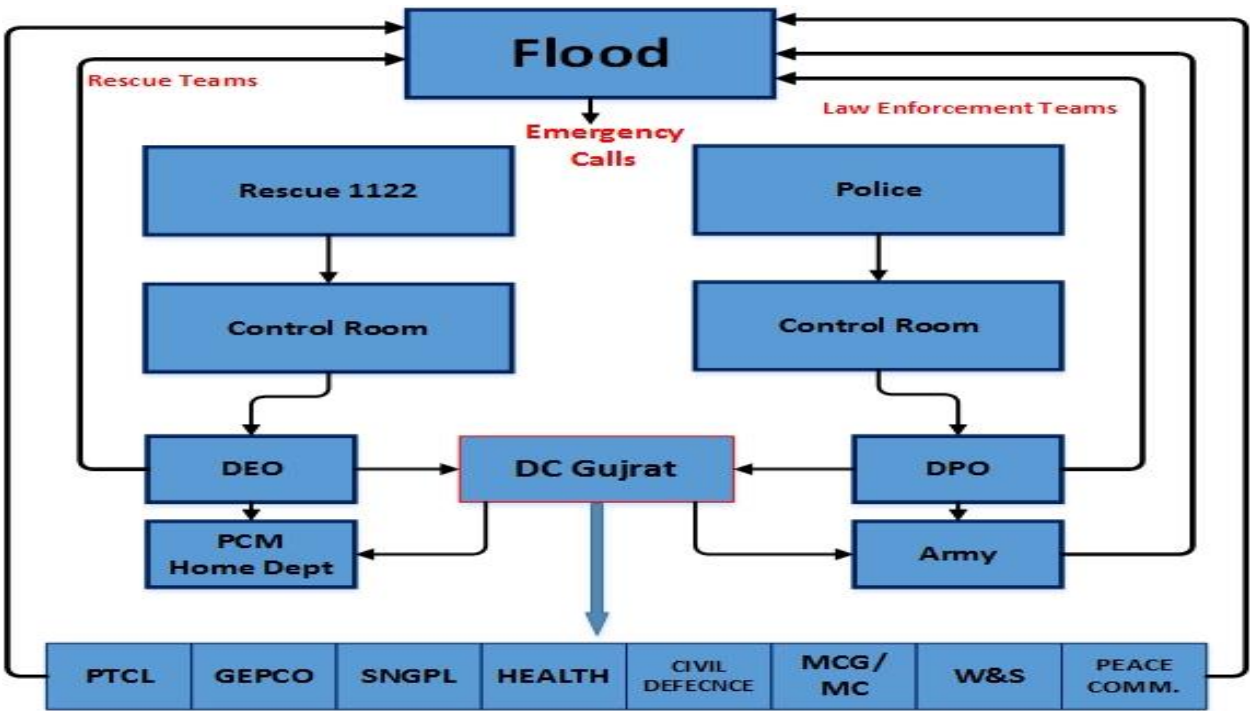
1. Heavy rain
2. Release of dam water from across the border (By India)

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



3. Response & Operational Capacity

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



4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	26	23	3	10
OBM	27	27	0	7
De-watering sets	42	29	13	10
Navigators	28	28	0	0
GIS devices	0	0	0	0
Life Jackets	379	270	109	100 Adult 200 Child
Life Ring	127	125	2	0
Life Lines	3	3	0	0
Scuba diving suit with complete accessories	2	2	0	4
First Aid Kits	16	16	0	30
Rescue Bag	16	16	0	0
Safety Harnesses	5	5	0	0
Ambulances	17	17	0	0
Fire Brigade	7	7	0	0
Water Tanks / Bouzers	8	8	0	0
Extendable Ladders	0	0	0	0
Hydraulic Cutter	2	2	0	0
Sonar Rader	0	0	0	0
Jumping Sheet	0	0	0	0
Dumpers	16	16	0	0
Excavators	3	3	0	0
Cranes	0	0	0	0
Dozer	5	5	0	0
Trolleys	27	27	0	7
Pickups/Jeeps/4x4 vehicles/Mini Trucks	0	0	0	0
Searchlight	11	11	0	100
Tent	680	380	300	0
Mosquito Net	500	500	0	0
Plastic Mat	290	290	0	0
Blanket	286	286	0	0
Any other main relief/rescue equipment	0	0	0	0
Generator Sets	37	37	0	0
Gas-Cutters	0	0	0	0
Sonar Radars	0	0	0	0
Scuba Diving Set	2	2	0	4
Navigator/GPS Tracker				
Floating Rope	0	0	0	0
Loader Rickshaw	65	65	0	0
Tractors	54	54	0	0
Boat Carrier	1	1	0	2

5. Gaps and Constraints

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

Boats	10
OBM	07
De-watering sets	10
Navigators	0
GIS devices	0
Life Jackets	300
Life Ring	50
Life Lines	0
Scuba diving suit with complete accessories	4
First Aid Kits	30
Rescue Bag	0
Safety Harnesses	0
Ambulances	0
Fire Brigade	0
Water Tanks / Bouzers	0
Extendable Ladders	0
Hydraulic Cutter	0
Sonar Rader	0
Jumping Sheet	0
Dumpers / Arm Roll truck	0
Excavators	0
Cranes	0
Bulldozer	0
Trolleys with tractors	07
Pickups/Jeeps/4x4 vehicles/Mini Trucks	0
Searchlight	100
Tent	300
Mosquito Net	100
Plastic Mat	100
Blanket	100
Any other main relief/rescue equipment	0
Generator Sets	0
Gas-Cutters	0
Sonar Radars	0
Scuba Diving Set	0
Navigator/GPS Tracker	0
Floating Rope	0
Boat Carrier	3

MITIGATION STRATEGY

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

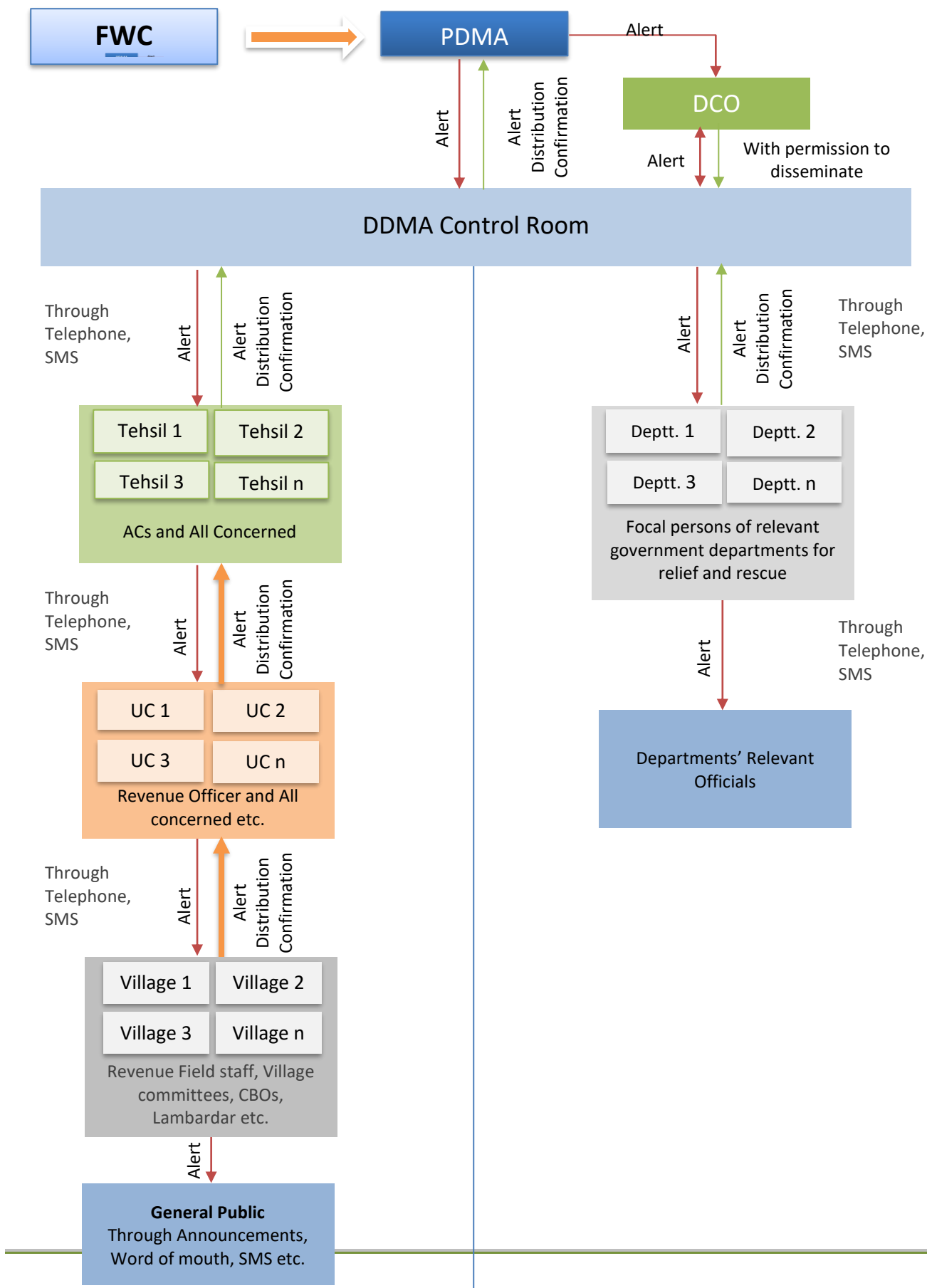
Hazards	Mitigate Actions	Responsible Department
Floods	• River Training Works • Construction of Flood Bunds • Timely Evacuation of the masses • Rescue the people in case of emergency • Fight the Flood to save the structures.	• Irrigation Department • Civil Administration • Pak Army • Rescue 1122
Urban Flooding	• Construction of Flood Protection Bunds • Timely Evacuation of the masses • Rescue the people in case of emergency • Fight the Flood to save the structures.	• Irrigation Department • Civil Administration • Pak Army • Rescue 1122
Flash Floods	• Construction of Flood Protection Bunds • Timely Evacuation of the masses • Rescue the people in case of emergency • Fight the Flood to save the structures. • Reduce the tendency of floods by control structures	• Irrigation Department • Civil Administration • Pak Army • Rescue 1122
Hill Torrent	• Construction of Flood Protection Bunds • Diversion Structures to save the villages • Timely Evacuation of the masses • Rescue the people in case of emergency • Fight the Flood to save the structures. • Reduce the tendency of floods by control structures	• Irrigation Department • Civil Administration • Pak Army • Rescue 1122
Glacial Lake Outburst Flood (GLOF)		
Landslide	• Planting trees • Protection of forest and developing regulations to prevent cutting of trees	• Forest department

Tornado		
Earthquake	- Constructing earth quake resistance buildings - Implementing building codes in commercial and owner-led construction	- District government - M.C
Drought		
Epidemic	- Vaccination to women, children and community members on Hepatitis, Malaria and Diarrhea and Typhoid - Health Education to community, lady health workers, TBA and CHWs - Collection of proper data on epidemics and developing preventive strategies against each - Keep stock of required medicines in BHUs, MHUs and local hospitals	Health
Fire Incidents	- Survey of vulnerable buildings - Survey of vulnerable factories - Implementation of building codes. - Training of employed staff. - Community awareness - Handling of Proper disposable material	- Civil defence & Building department - Civil defence & Labour department - M.C - Rescue1122 - Environment - M.C
Other Major Accidents (Building Collapse, road)		

traffic accidents, train accident, Stampede, plane crash)		
Environmental Hazards (industrial accidents, severe pollution etc.)	• Training of employed staff. • Community awareness • Survey of vulnerable buildings • Survey of vulnerable factories • Handling of Proper disposal material	• Rescue1122 • Civil Defence • Civil defence& building department • Civil defence & labour department • Environment, M.C

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 at least 2 mock exercises as per DDMP, well in time, to make the concerned officers/officials understand their role and responsibility for better coordination and testing of rescue and relief equipment. DDMA shall also ensure the physical presence of concerned staff deputed and availability of equipment/resources for all designated vulnerable sites within given time frame during disaster. Vulnerable site's inspections and necessary works/action shall be carried out as mitigation measures.

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 DCO 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, TMA 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

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

Who is the focal person at district level?

Functions of District/Tehsil Emergency Control Rooms in early warning

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

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

EARLY WARNING SYSTEM PROTOCOLS

Protocols	Details
Receipt of warning	The early warning is received from resources like PDMA, Pakistan metrological department (heavy rains / wind or storms), India informs Head Marala about water level discharges from India, Rescue 1122 (Road accidents, Fires, Building Collapse, Drowning), Civil Defence & Police (riots, violence, terrorist activities), Health (epidemics) through emails, phone calls & sms depending upon the nature & gravity of the warning.
Hydrology department	The main source of early warning for flood is hydrology department mangla dam which is generating information collected from flood warning stations situated in (mangla catchment areas) Muzafarabad, Talhata, Domel, Chattar Kalas, Azad Patten, Kotli. The district control room is established in office of the civil defense and district officer civil defence is the focal person of district control room.
Functions of Control Room	• Information collection & dissemination • To establish Coordination among departments. • Communicate with concerned department (depending upon the nature & gravity of the warning) • Resource dispatching and tracking. • Warning distribution among government department, public & media. The information received at district control room is dispatched to the concerned department (focal person / district head) through email, SMS or phone call depending upon the severity of the warning after getting clearance from chairman DDMA.
Mode of Communication of Early Warning to Relevant Population	The relevant warnings to concerned population is passed in three phases Phase 1 Notices are served through patwari and gardawar to the concerned residents of vulnerable area regarding alternate arrangements for expensive items/goods in case of emergency evacuation. Phase 2 Mock exercises and drills are conducted through relevant departments regarding evacuation.

	Phase 3 In this phase the warnings are issued through sirens, announcements through loud speaker/mega phone and electronic media when DDMA issues high alert of level B.
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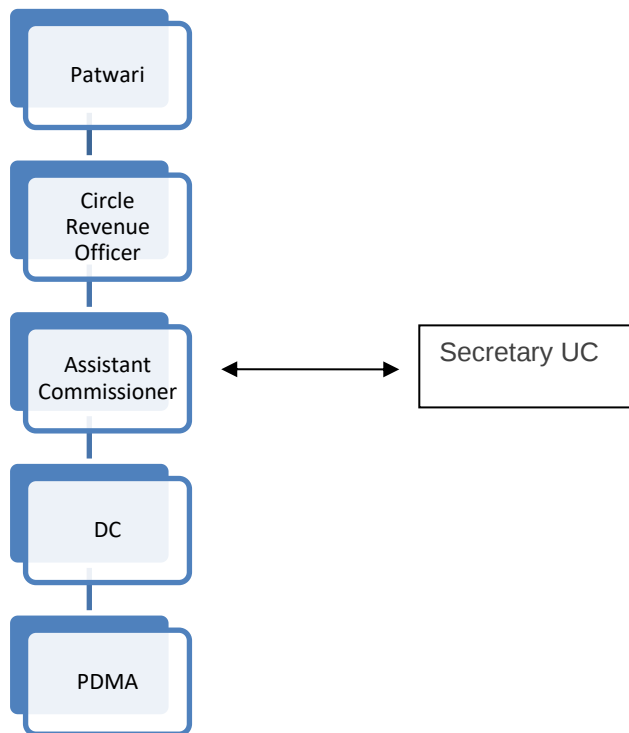
RESCUE STRATEGY

Activity	Responsible department
Evacuation	♦ Rescue 1122 ♦ Civil Defence ♦ Pakistan army
First Aid / Medical Assistance	Health Department
Shifting To Relief Camp	Secretary RTA
Provision Of Cooked Food	NGOs
Management Of Relief Camp	District Administration
Breach Or Repair of Spur / Bund Etc.	Irrigation Department & Pakistan Army

Assistance of Pakistan Army would be requested if the capacity of Rescue 1122 proves insufficient or if air support (helicopters) is required

HUMANITARIAN ASSISTANCE

1. Data will be collected and communicated through following channel: -

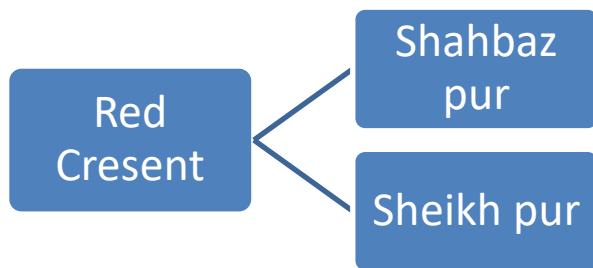


2. Priority needs would be determined according to population density of affected area
3. Evacuation through boats by Rescue 1122 & volunteers of civil defence
 - ♦ Shifting to safe location by Secretary RTA
 - ♦ Vaccination and first aid by Health Department
 - ♦ Management and coordination by Assistant commissioner

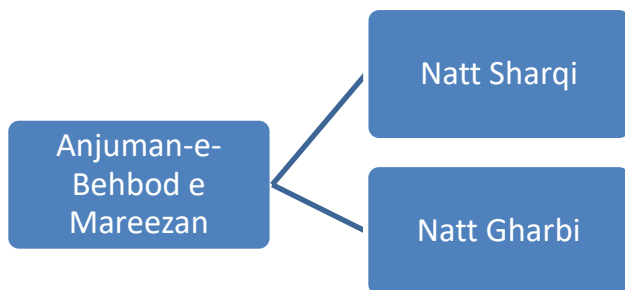
Standardized packages would be provided as per tender.

Pre-defined areas would be allocated to NGOs to avoid duplication e.g.

(1)



(2)



ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

S#	Location	No. of persons which can be accommodated	GPS Coordinates	S#	Location	No. of persons which can be accommodated	GPS Coordinates
1			X: Y:	16			X: Y:
2			X: Y:	17			X: Y:
3			X: Y:	18			X: Y:
4			X: Y:	19			X: Y:
5			X: Y:	20			X: Y:
6			X: Y:	21			X: Y:
7			X: Y:	22			X: Y:
8			X: Y:	23			X: Y:
9			X: Y:	24			X: Y:
10			X: Y:	25			X: Y:
11			X: Y:	26			X: Y:
12			X: Y:	27			X: Y:
13			X: Y:	28			X: Y:
14			X: Y:	29			X: Y:
15			X: Y:	30			X: Y:

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

Hazards	Tehsils	UCs	Names of Villages	Names of Villages
Floods	Gujrat Kharian S.A. Gir		<u>GUJRAT</u>	<u>KHARIAN</u>
			SADHOKE	CHAK SIKANDAR
			CHANGANWALI	GOTREIALA
			CHANGANWALI	DHAO
			CHAK MULLAN BC	CHAK MIANA
			SINGANWALA BC	LALAMUSA
			GORALI	BAHARWAL
			MALKOWALA	JAYPUR
			TARA GARH KHURD	AKIA
			KALEKI	KHOONAN
			KOT PATO	MURRARIAN
			KOTLI GOIAN	CHAK BHAGO
			CHAK GHAZI	BHADDAR
			KATHALA	LUQMAAN
			NAT	<u>SARAI ALAMGIR</u>
			PINDI TATAR	SARAI ALAMGIR
			SAMMA	NOTHIA QURESHIAN
			GORIAYA	KAKROT
			MOHLA	MAHEY KHURD
			MOHLA	CHAK NATHA
			TARA GARH KALAN	KHANPUR KHAMBI
			QILADAR	BHROAT
			SHADIWAL TARF KHANKY	BRAND
			SHADIWAL TARF MAHMDA	KHAL
			ALIPUR	KHOHAR
			BHAGOLA	DHORI
			KOT RANDHAWA	BHALWAL GHARBI
			KOTLI KANDU	KHADRIALA
			RATTI	KHARKA
			RAWALKE	NANWAL
			SHADIWAL CHUHERKEY	PAHARWAL
			SHADIWAL ICHHERIKEY	CHAK SHAKARPUR
			NOORA	DOLO
			ADALAT GARH	KHIDARIALA
			ALI SHER MOHOTA	MALO
			HEER	NAROWAL
			KHASA	CHANGAS
			MAHIWAL	
			MOHATA KALAN	
			NOUSHERA MIANA	
			PUTARI	

			SUNN UMAR WAL BAWRIANWALA CHAK MILLAN JALOWALI KOT NIKKA LAMBHAR NAUGARAN PHAGAL DEHPAI NASOWALI SOHAL KHURD MALLIAN BC MANDYALA PINDI MIANI KOT MIANA CHAK RAHMAN KAN LALOOKE NABIPUR SHAHBAZ PUR CHAK MERO KAULOWALA SAYAN SHEIKH PUR CHOHDWAL JEOWANJAL KOTLI SHAHANI CHAK GILLAN DHAROWALA GOLEKI BAZ GARH GOBIND PURA JAFFA PUR JASOKI KOT MAUJ DIN KOT NATHU KOT QUTAB DIN SANT PURA SAPAWAT NAWALOK KHOJIANWALI LANGAH KOT GHULAM TARIKHA QASIM ABAD(CHUA MAL)	DHORI WARHEENA BARRAND BHALWAL GHARBI GURRAH JATTAN KHARKA KHOHAR FATEH PUR PURAN Dhok Muslim Chack Sikander Ranial
--	--	--	---	--

			BELA SHADIWAL RAKH MARRI BAHLOLPUR QURRI CHOPALA JSIM DHUL KALAN NANOWAL NAT SHARKE MAJOKE MARI WARRACHAN CHOBARA MARI KHOKARAN SHAMPUR CHAK KANDU CHAK LASHKARI KOTLI MINHAS KOTLI PAGWAN KOTLI PARMANAND MADDAN Matianwala NAJJAN NASIRPUR CHAK PANIAR RAMKE BHALPUR Kotli Vedan RANGRAH SARA KH PUR SHAKAR KOT HITTAR PANJ DHERA RANDHIR SHEIKH CHOGANI DABB	
Urban Flooding				
Flash Floods				
Hill Torrent				
Tornado				

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

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

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	RHC Shadiwal, UC Shadiwal	X: Y:	primary	Dr. Zahid Mehmood 0300-6274182	flood
2	BHU Thatha Musa, UC Thathamusa.	X: Y:	primary	Dr. Ali Silman	flood
3	BHU Surkhpur , UC Surkh Pur	X: Y:	primary	Shahzad Qasim(SH&NS) 0302-6201958	flood
4	BHU Sheikh Chogani, Marri Khokharan	X: Y:	primary	Dr. Ghamkhar Hussain MO 0321-5459744	flood
5	BHU Mandiala, UC Mandiala	X: Y:	primary	Dr. Kaleem Ahmed MO 0322-6460221	flood
6	BHU Chak Sada, UC Chak Sada	X: Y:	primary	Dr. Ayaz MO 0333-4099699	flood
7	BHU Gorala UC Kathala Chinab	X: Y:	primary	Dr.Saira Aslam MO 0331-6204512	flood
8	BHU Harriawala, UC Hariawala	X: Y:	primary	Amjad Ali Butt (SH&NS) 0333-8445535	flood
9	BHU Goleki UC Goliki	X: Y:	primary	Muhammad Saeed (SH&NS) 0345-6927553	flood
10	RHC Sarai Alam Gir UC Sarai Alamgir Urban	X: Y:	primary	Dr. Muhammad Ali MO 0333-4400100	flood
11	BHU Chachian Dittewal UC	X: Y:	primary	Dr. Imran Nazir 0332-0408283	flood

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
	Adowal				
12	CH Dinga UC Dinga	X: Y:	primary	Dr. Asif 0333-8022277	flood
13	BHU Khohar UC Khohar	X: Y:	primary	Dr. Ali Rehman MO 0333-9480716	flood
14	BHU Sardhok UC Simbli	X: Y:	primary	Shakeel Anwar Minhas 0344-5753103	flood
15	CH LAlamusa UC LAlamusa	X: Y:	primary	Dr. Altaf 0300-6216228	flood

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates		Enrolment	Incharge Name	Contact Number
1	GHS COMPREHENSIVE GUJRAT	School	32°35'35.53"N	74°02'50.19"E	1240	MR. SAJID ZAMAN	03225997063
2	GHSS KATHALA CHENAB	School	32°30'38.89"N	74°05'49.72"E	849	MR. IKRAM ULLAH SAFDAR	03005171866
3	GHSS TANDA	School	32°42'02.11"N	74°21'54.40"E	515	MR. NASIR MEHMOOD BUTT	03456781148
4	GHS ISLAMIA NO. 1 JPJ	School	32°38'28.30"N	74°12'22.47"E	1451	MR. YASEEN JUNAID	03016253585
5	GHS PAK SHADIWAL	School	32°30'41.15"N	74°02'03.06"E	410	MR. WAHEED AHMAD	03480442736
6	GHS KHARIAN	School	32°48'41.53"N	73°51'53.88"E	626	MR. SAEED AHMAD FARAZ	03016277665
7	GHS DINGA	School	32°38'05.56"N	73°43'19.16"E	1217	MR. MUHAMMAD ARIF	03338524124
8	GHS BHAG NAGAR	School	32°56'37.84"N	73°48'39.75"E	421	MR. JAVID IQBAL	03455735284
9	GHS KHARKA KHADRIALA	School	32°50'51.49"N	73°41'07.74"E	631	MR. MUHAMMAD ASGHAR	03035423834
10	GHS S.A. GIR	School	32°53'10.66"N	73°45'30.39"E	1029	MR. MUNAWAR HUSSAIN	03335825584

ANNEX V: LIST OF INDUSTRIES WITH THEIR RISK LEVEL

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
1	Maqsood Plastic	Gali Nwab PVC, G.T RoadGujrat	X: Y:			Low	Fire
2	Japan National Malamine Industry	Moh. Karim Pura Church Road Lalamusa	X: Y:			Low	Fire
3	Atif Melamine	Moh. Karim Pura Church Road Lalamusa	X: Y:			Low	Fire
4	Allied PVC,	Gali Nwab PVC, G.T Road Gujrat	X: Y:			Low	Fire
5	Adr Melamine Industry	Moh. Karim Pura Church Road Lalamusa	X: Y:			Low	Fire
6	Muhammad Din Melamine Industry	Garhi Ahmadabad, Gujrat	X: Y:			Low	Fire

ANNEX VI: LIST OF NGO WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g., WASH, Health, Education)	Focal Person Name	Contact No.
1	Decent Welfare Society Railway Road Gujrat.	Local	District Gujrat	Health, Disability	Dr. Ijaz Bashir	0333-8411313
2	Rehmat Welfare Foundation Jalalpur Road Gujrat.	Local	District Gujrat	Disability, Religious Edu, Industrial Center.	Malik Azhar Ahmed	0300-6204396
3	Al-Rahi Education and Health Welfare Society	Local	District Gujrat.	Health, Industrial School.	Sofi Safder Hussain	053-3608268
4	Patient welfare association A.B.S.Hospital	Local	District Gujrat.	Provision of Medicine to Deserving Patients	Javeed Butt	0300-8620826
5	Usmania Welfare Trust Gujrat.	Local	District Gujrat.	General Welfare	Saif Ullah Khan	0331-6228100
6	Social Welfare Society Lakhan wal.	Local	Lakhan wal.	Industrial School	Asghar Ali Nasir	Asghar Ali Nasir
7	Jalal Pur Jattan Welfare Society Jalal Pur Jattan.	Local	District Gujrat.	Health Welfare	Mr.Danish	0300-6227650
8	Pak Welfare Society Kashmir Nagar Jalal Pur Jattan.	Local	District Gujrat.	Education, Industrial School	Raja M. Imtaiz	0314-4546011
9	Tanzeem-e-Falae Insaniat Mahroof.	Local	District Gujrat.	Education, Industrial School	Muhammad Adnan Butt	0300-6211646
10	Pakistan Welfare Society Haria wala Gujrat.	Local	District Gujrat.	Education, Industrial School	Amjad Abass	0533-516208
11	Social Welfare Society Tanda Mota.	Local	Tanda Mota.	Industrial School	M. Ayub	0533-583196
12	Rural Welfare Society Chak Gill.	Local	Chak Gill.	Education, Industrial School	Mirza Mazhar Nasim	053-3595197

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.
13	Rehmani Welfare Society Shadiwal.	Local	Shadiwal.	Education, Industrial School	Shafi Rehmani	0300-6217437
14	Zaib Welfare Foundation Gujrat.	Local	District Gujrat.	Free Dastar Khawan	Aurang Zaib Butt	0300-8620079
15	HGR welfare Society Gujrat	Local	District Gujrat.	Health Welfare	Ch.Riaz Ahmed	0321-4872000
16	Hashim Welfare Society Pindi Hasahim.	Local	Pindi Hasahim.	Health Welfare	Dr. M. Addrees Awan	053-7630172
17	Social Welfare Society Mohri Sharif.	Local	Mohri Sharif.	Education, Industrial School	Raja Muhammad Munir	053-7617074
18	Citizen Welfare Society Kharian.	Local	Kharian.	Health Welfare	Sob. Saeed Muhammad	0345-6895309
19	Youth Welfare Society Jandawala.	Local	Jandawala	Industrial School	Mian Khan Losar	0312-7602409
20	Al-Khidmat Welfare Society Kharian.	Local	District Gujrat.	Health Welfare	Syed Zia Ullah Shah	0333-7535353
21	Muhammdai Welfare Society Lalamusa.	Local	Lalamusa	Health Welfare	Naeem Ashraf Ch	0333-8411000
22	Farooq Shaheed foundation Sarai alamgir	Local	Sarai alamgir	Education Welfare	Ch. Allah Ditta Sabri	0300-9528583
23	Ayesha Memorial Welfare Society Khohar	Local	Khohar	Industrial School	Malik Amjad	0332-8466807
24	Al puran Welfare society puran	Local	puran	Industrial School	Raja Tahir	0345-5796264
25	Islahi Welfare Society, Near Jamia Masjid, Sarai Alamgir	Local	Sarai alamgir	General Welfare	M. Akbar	0345-5672050
26	Malaika Welfare Society Balu Banian, Sarai Alamgir.	Local	Balu Banian, Sarai Alamgir.	Industrial School	Liaqat Ali	0345-5712824

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS / DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Amar Shahzad Kang	(053) 9260061		0333-8163438
2	Commissioner	Zulfiqar Ghuman	055-9200165		0304-0920051
3	RPO	Imran Ahmar	(055) 9200601		03008719666
4	DCO	Dr. Khurram Shahzad	053-9260010	053-9260011	0304-0920066
5	DPO	Umar Salamat	(053) 9260026		
6	ADC (R)	Amar Shahzad	(053) 9260061		0333-8163438
7	DEO Rescue 1122	Umar Akbar Ali	(053) 3536788		0333-6517115
8	DO Civil Defence	Ashfaq Ahmad	053-9260069		0322-8409512
9	SNA	Asad Misbah	053-9260315		0345-6868768
10	AC - Gujrat	Umar Daraz	053-9260063		0300-8054714
11	AC -Kharian	Khalid Abbas Sial	053-9240212		0300-7921000
12	AC –Sarai Alamgir	Ahsan Mumtaz	0544-651812		03228864496
13	Tehsildar –Gujrat	Sohail Rizwan			0300-9621000
14	Tehsildar –Kharian	Tariq Saeed Mohsin			0300-9643113
15	Tehsildar –S. A Gir	Sultan Ahmad			0301-6293322
16	MC(CO) –Gujrat	Azmat Qadeer	053-9260284		0300-8707564
17	MC(CO) –Kharian	Shafqat Munir	053-9240050		0300-5418917
18	MC(CO) –Sarai Alamgir	Tariq Warriach	0544-652745		0300-6206575
19	CEO Education	Tahir Kashif	053-9260301		0301-6709101
20	XEN Irrigation	Qalab Abbas	053-9260398		0300-7608353
21	Chief Engr. Irrigation	Malik M. Saleem	048-9230445		
22	MC(CO), Kunjah	Naveed Haider			0300-9621584
23	MC(CO), Jalal Pur Jattan	Naveed Ashraf	053-3592237		0300-6272164
24	MC(CO), Lala Musa	Musharaf Baig			0333-2007575
25	MC(CO), Dinga	Imran Danish			0300-4177126
26	DD Agriculture	Rafiq Tarar	053-9260345	--	0300-6272164
27	CEO Health	Dr. M. Latif Afzal	053-9260105		0300-6253173
28	GAR Revenue	Waqar Ahmed Khan	053-9260313		0300-6203303
29	Incharge DHQ Hospital	Dr. Abid Malik	053-9260101		0300-6205378

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
30	Veterinary Officer	Dr.Wajid	053-9260407	--	0342-3018900
31	WAPDA/GEPCO Circle Gujrat	Muhammad Zahid (Dy.Director Technical)	053-9260234	053-3607281	0340-0001903
32	DDO Social Welfare	Amjad Farooq Kalair	053-9260134		0301-6403449

ANNEX VIII: LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1.	Abdul Rehman Sabir S/O Sabir Hussain	34201-0587660-9	Village Dairu Guna P.O Gujrat	0300-6208178	O+ve	1hrs
2.	Asjid Ijaz S/O Muhammad Ijaz	34201-0299988-1	Moh.Qadir Colony Jalalpur Jattan Gujrat	0301-6297132	O-ve	1hrs
3.	Raja Adil Hussain S/O Iftikhar Ahmed	34201-7990417-1	Moh.Amin Abad Gujrat	0307-4305122	A+ve	1hrs
4.	Muhammad Rasib Subhani	34202-0819780-5	Village Chak Kamal P.O Sehna	0347-4639530	B+ve	1hrs
5.	Qamer Shahzad S/O Muhammad Farooq	34202-4600880-1	Village Hanj P.O Khas Tehsil Kharan Gujrat	0332-4946760	B+ve	1hrs
6.	Hamza Jalil S/O Jalil Asghar	34201-2238384-7	P.O Khas Ali Pur, Tehsil & District Gujrat	0304-9411523	B+ve	½ hrs
7.	Zeesan Ali S/O Khalid Masood	34201-8642098-7	Moh.Ghazi Pura Gujrat	0316-1739146	O+ve	1hrs
8.	Ehsan Ullah S/O Muhammad Latif	34202-2576072-1	Village Hanj P.O Khas Tehsil Kharan Gujrat	0300-6284841	O-ve	1hrs
9.	Ahtesham s/o Khalid Masood	34201-5311417-9	Hassan chowk , City Gujrat	0308-6898625	O+ve	½ hrs
10.	Nadeem Riaz s/o Muhammad Riaz	34201-2007858-1	Ghari Ahamdabad	0307-7252234	A+ve	½ hrs
11.	Muhammad Waqas s/o Muhammad Iqbal	32202-1527853-7	Gujrat city Temporary	0311-0415122	O+ve	½ hrs
12.	Hamza Rasool S/O Imtiaz Ahmad	34201-9092556-5	Hanjra, PO Khas, Tehsil & District Gujrat	0349-4451136	O+ve	½hrs
13.	Waqas S/O Muhammad Ilyas	34201-7067106-7	P.O Khas Ali Pur, Tehsil & District Gujrat	0307-8448462	B+ve	1hrs

ANNEX VIII (B): LIST OF SWIMMERS/DIVERS

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Abrar Hyder	34201-4428822-7	Gujrat	0346-8276719		30 Min
2	M Irfan Latif	34203-2226866-9	Gujrat	0343-5711457		30 Min
3	M Ishtiaq	34201-2285672-7	Gujrat	0331-4832770		30 Min
4	Mudassar Arif	34201-7124394-9	Gujrat	0333-8427471		30 Min
5	Mudassar Hussain	34201-1210062-3	Gujrat	0321-6212269		30 Min
6	Shakar Zubair	34202-1090935-9	Gujrat	0307-6287712		30 Min
7	Waseem Yousaf	34201-8537572-1	Gujrat	0305-5853911		30 Min
10	Hafiz Faiz Rasool	34201-1925487-5	Gujrat	0300-6630781		30 Min
11	Khurram Shahzad	34201-7181057-9	Gujrat	0343-6224933		30 Min
15	Shafqat Ullah	34201-4917460-1	Gujrat	0334-4652166		30 Min
16	Abbas Ahmed	34201-6030416-5	Gujrat	0341-3260522		30 Min
17	Aqib Mushtaq	34202-9468397-1	Gujrat	0344-6936786		30 Min
18	Asad Ullah	34201-3686315-1	Gujrat	0343-6225571		30 Min
19	FAISAL RAZZAQ	34201-5275691-1	Gujrat	0302-6125374		30 Min
20	Iftikhar Hussain	34202-8452130-5	Gujrat	0304-7640440		30 Min
21	Irfan Shan Ali	34201-9549092-5	Gujrat	0315-7726653		30 Min
22	M Ali	34201-1618647-7	Gujrat	0302-6272137		30 Min
24	M Asad Ullah	34201-8736191-7	Gujrat	0347-6014781		30 Min
25	M Faizan	34202-9044151-5	Gujrat	0301-3129317		30 Min
26	M Fayyyaz	42201-0383361-1	Gujrat	0341-4221122		30 Min
27	M Haroon	34202-5894355-9	Gujrat	0347-6087200		30 Min
28	M Irfan	34202-9043997-3	Gujrat	0348-4447908		30 Min
29	M Qasim	34202-4675346-9	Gujrat	0332-4811818		30 Min
30	M Rizwan	34201-7972079-7	Gujrat	0346-4285583		30 Min
31	M Rizwan	34201-6519697-1	Gujrat	0335-0459405		30 Min
32	M TAUQEER	34201-9363720-5	Gujrat	0336-0907487		30 Min
33	M Touqir	34202-3546843-3	Gujrat	0314-7858547		30 Min
34	MAKHDOOM ALAM	34202-0640716-5	Gujrat	0348-1662047		30 Min
35	Rana M. Saqlain	45206-7297096-5	Gujrat	0342-6288082		30 Min
36	Muneeb Zafar	34201-2870958-3	Gujrat	0333-3981122		30 Min
37	Muzzaffer Iqbal	34201-0545208-5	Gujrat	0333-0646494		30 Min
38	Nadeem Ansar	34201-7274434-5	Gujrat	0308-6280122		30 Min
39	RANA M ASIF	34201-1009632-3	Gujrat	0301-4747311		30 Min
40	Rashid Mahmood	34202-5320433-3	Gujrat	0343-6083445		30 Min
41	Sajid Mehmood	34201-6565047-5	Gujrat	0344-6216705		30 Min
42	Saleem Raza	34201-5580350-9	Gujrat	0345-6896962		30 Min
43	Salman Shafiq	34201-6988964-3	Gujrat	0301-6202266		30 Min
44	SULEMAN AKHTAR	34201-5126904-1	Gujrat	0307-6127423		30 Min
45	M Ateeq Butt	34201-0516036-9	Gujrat	0300-9619879		30 Min
46	M Bilal	34201-1223779-5	Gujrat	0301-5112213		30 Min
47	Adeel Sarwar	34201-1221963-3	Gujrat	0343-6792053		30 Min
48	Adnan Afzal	34202-9452913-3	Gujrat	0334-4698185		30 Min
49	Aurangzeb Anjum	34201-7446953-9	Gujrat	0347-4052360		30 Min
50	Farhat Iqbal	34202-0825001-3	Gujrat	0333-4359238		30 Min

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
51	HAFIZ ASIM SAQLAIN	34201-3257651-1	Gujrat	0320-6227153		30 Min
52	Ismail Sharif	34201-9557703-1	Gujrat	0333-5577811		30 Min
53	KHURRAM SHAHZAD	34201-6397922-1	Gujrat	0311-0780541		30 Min
54	M Usman Safdar	34201-7307239-3	Gujrat	0301-6264110		30 Min
55	M ZAMAN	34203-3409476-9	Gujrat	0345-5702308		30 Min
56	M ZUBAIR	34201-4935799-9	Gujrat	0305-8484024		30 Min
57	Malik Hasnain Nazar	34202-8081642-7	Gujrat	0344-5989718		30 Min
58	Mudassar Iqbal	34201-1557333-9	Gujrat	0333-8486320		30 Min
59	Nazim Ali	34201-8803050-5	Gujrat	0307-4811882		30 Min
60	NUMAN ALI	34201-1553665-1	Gujrat	0308-6428080		30 Min
61	Shoaib Tariq	34201-1584160-7	Gujrat	0333-4319097		30 Min
62	UMAIR BAHAWAL	34201-8304266-9	Gujrat	0301-6231122		30 Min
63	Zeeshan Ahmed	34202-8102094-1	Gujrat	0343-4461344		30 Min
64	Ali Asghar	34202-0695509-7	Gujrat	0345-5748772		30 Min
65	Ali Raza	34201-6136602-1	Gujrat	0300-6209305		30 Min
66	Ayyaz Hassan	34201-4189326-3	Gujrat	0344-6277155		30 Min
67	Babar Ul Hassan	34201-0765077-5	Gujrat	0333-8438393		30 Min
68	Bilal Asghar	34201-5013077-9	Gujrat	0313-8728781		30 Min
69	Fayyaz Ahmad	34202-4235387-7	Gujrat	0306-6255784		30 Min
70	Ibrar Shahzad	34201-0335278-5	Gujrat	0346-6876929		30 Min
71	Imran Shahzad	34201-8412107-1	Gujrat	0302-6380828		30 Min
72	KAMIL MUNEEER	37405-7116554-3	Gujrat	0347-6064009		30 Min
73	Khalil Ahmad	34203-0633213-9	Gujrat	0346-6499238		30 Min
74	M Asim	34201-2158766-1	Gujrat	0346-6874280		30 Min
75	M Nazim Javed	34201-6389747-1	Gujrat	0305-6143120		30 Min
76	M Qasim	34202-0682243-7	Gujrat	0345-4896101		30 Min
77	M Touseef	31205-0822058-1	Gujrat	0344-6256763		30 Min
78	Nisar Ahmed	34201-0454082-7	Gujrat	0301-6279172		30 Min
79	Rashid Hussain	34202-0838645-7	Gujrat	0301-6275715		30 Min
80	S. Saqib Shaheen	42201-2324365-5	Gujrat	0302-5015718		30 Min
81	Shafqat Hussain	34201-7681747-3	Gujrat	0344-4340274		30 Min
82	Shahzada A	34202-5308352-5	Gujrat	0342-5308352		30 Min
83	Usman Ghani	34201-2685381-9	Gujrat	0343-8490759		30 Min
84	Zaheer Ahmed	34201-9950401-3	Gujrat	0346-6814915		30 Min
85	Khurram Shahzad	34202-6198005-9	Gujrat	0333-8454590		30 Min
86	AQDAS AZIZ	34201-4391115-7	Gujrat	0334-4696196		30 Min
87	ARSLAN ARSHAD	34201-4861326-9	Gujrat	0302-9529015		30 Min
88	FAHAD BILAL	34201-4793185-1	Gujrat	0335-8756154		30 Min
89	M USMAN SAQIB	34201-1502169-7	Gujrat	0308-4723912		30 Min
90	MIR HAMZA IQBAL	34202-6396550-9	Gujrat	0334-9917267		30 Min
91	SAIF ULLAH	34201-5519082-5	Gujrat	0346-6577281		30 Min
92	SAJID SAJJAD	34203-7506347-7	Gujrat	0349-9187437		30 Min
93	Ali Ammar	36502-0113873-5	Gujrat	0331-6472001		30 Min
94	TOUQEER ABBAS	34201-5065285-5	Gujrat	0355-8084622		30 Min
95	UMAIR LATIF	34201-1095303-1	Gujrat	0331-6229284		30 Min
96	USAMA AMIN	34201-8457026-5	Gujrat	0348-6032227		30 Min
97	USAMA BIN JAVAID	34201-0971346-5	Gujrat	0320-5872787		30 Min
98	ZEESHAN M	34201-6327972-9	Gujrat	0303-4717833		30 Min

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-68	Mr. Hussain Elahi	MNA	03066666550	PP-28	Shujahat Nawaz	MPA	03009610276
				PP-29	M. Abdullah Waraich	MPA	03009620316
NA-69	Mr. Moonis Elahi	MNA	N/a	PP-30	Pervez Elahi	MPA	04299200311
				PP-31	Saleem Sarwar Jora	MPA	03008492866
NA-70	Syed Faiz Ul Hassan	MNA	03005539260	PP-32	Mian Akhtar Hayat	MPA	03335172953
				PP-33	Ch. Liaqat Ali	MPA	03008437191
NA-71	Ch. Abid Raza	MNA	03006276231	PP-34	M. Arshad Ch.	MPA	03008510045

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

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

UC Level

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
1						
2						
3						
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S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
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ANNEX XI: DATA COLLECTION PERFORMAS

P1: House Damage Assessment

District: _____

Date: _____

S#	Name	Father Name	CNIC	Address	Revenue Estate	Union Council	Tehsil	Partially/Completely	Katcha/Pakka	%Age of Damage	Contact No.	GPS Coordinates	Picture Taken (Y/N)
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P2: Deceased Person Reporting Performa

District: _____

Date: _____

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

District: _____

Date: _____

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

District: _____

Date: _____

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

District: _____

Date: _____

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Date: _____

S#	Nationality	Domicile	Male	Female	Age	Children Under 12	Infants under 3	Sick	Injured	Pregnant
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P9: NGOs registration performa

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

District: _____

Date: _____

S#	Name of NGO	Local /INGO	Relief activity	Relief camp if any	Focal person in the district	Registered with PDMA	Foreigners to be visiting or not.
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P10: Control Room

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

District: _____ Focal Person: _____ Date: _____

S#	Location of control room	Shift I Incharge Name and Contact	Shift II Incharge Name and Contact	Shift III Incharge Name and Contact	Phone Numbers	Fax Numbers	E- Mail Address
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ANNEX XII: CAMP MANAGEMENT SOPS

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

Land	3.0-4.5 square meter per person
Shelter	3.5 square meter per person
Water	15-20 liters per person per day
Food	2100 kcal per person per day
Toilet	One per family of 6-10 persons
Health Centre	One per 20,000 persons
Child Friendly Spaces	2-4 year olds- 15 children:2 facilitators
	5-9 year olds-20 children : 2 facilitators
	10-18 year olds- 30 children :2 facilitators
Hospital	One for as many as 200,000 persons

ANNEX XIII: FLOOD BUNDS

INFORMATION REGARDING FLOOD BUND CATEGORY A

SR:#	NAME OF DIVISION	NAME OF EMBANKMENT / BUND	LENGTH (ft)
SARGODHA ZONE			
1	Rasul Head works Division	Right Guide Bund	2,121
2	-do-	Left Guide Bund	3,360
3	-do-	Right Guide Spur	2,762
4	-do-	Left Marginal Bund	17,170
	Total in feet.		25,413
	Total in Miles.		4.81
PMO BARRAGES			
1	Kalabagh H/Works Division	Jinnah Barrage	25,080
-	Total in feet.		25,080
-	Total in Miles.		4.75
FAISALABAD DIVISION			
1	Khanki Division	Left Marginal Bund	21,000
2	-do-	Right Marginal Bund	29,000
3	Jhang Division	Jhang Flood Protection Bund	43,875
4	Qadirabad Barrage Division	Left Marginal Bund	20,000
5	-do-	Right Marginal Bund	20,000
	Total in feet.		133,875
	Total in Miles.		25.36
BAHAWALPUR ZONE			
1	Punjnad Head works Division	Right Marginal Bund	15,000
2	-do-	Left Marginal Bund	15,000
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	10,000
	Total in feet.		55,000
	Total in Miles.		10.42
MULTAN ZONE.			
1	Trimmu Division	Right Marginal Bund	20,000
2	-do-	Left Marginal Bund	20,000
3	Sulemanki Division	Left Marginal Bund	10,000
4	-do-	Right Marginal Bund	10,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	10,000
6	-do-	Akbar Flood Bund	10,000
	Total in feet.		80,000
	Total in Miles.		15.15
D.G.KHAN ZONE			
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khargarh Flood Bund	5,000
7	-do-	Khanwah Flood Bund	5,000
8	Jampur Construction Division	Jampur Flood Bund	5,000
9	-do-	Rojhan Flood Bund	20,000
	Total in feet.		1,35,000
	Total in miles		25.57

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

INFORMATION REGARDING FLOOD BUND CATEGORY B

S#	Name of Division	Name of Embankment / Bund	Length (ft.)
SARGODHA ZONE			
1	Rasul Headworks Division	Important / Vulnerable Reaches	10,000
2	Bhakkar Division	-do-	10,000
3	Layyah Division	-do-	10,000
4	Jhelum Division	-do-	5,000
	Total in feet.		35,000
	Total in miles		6.63
FAISALABAD ZONE			
1	Khani Division	-do-	20,000
2	Jhang Division	-do-	50,000
3	Qadirabad Barrage Division	-do-	60,000
4	Burala Division	-do-	35,000
	Total in feet.		165,000
	Total in miles		31.25
BAHAWALPUR ZONE			
1	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	Kot Adu Canal Division	-do-	90,000
3	Muzaffargarh Canal Division	-do-	180,000
4	River Diversion Division	-do-	80,000
5	Jampur Construction Division	-do-	140,000
6	D.G.Khan Construction Division	-do-	60,000
	Total in feet.		630,000
	Total in miles		119.32
LBDC (IP)			
1	Balloki Headworks Division	-do-	40,000
2	Okara Division	-do-	40,000
3	Sahiwal Division	-do-	20,000
	Total in feet.		100,000
	Total in miles		18.94
LAHORE ZONE			
1	Flood Bund Division Narowal	-do-	40,000
2	Pasrur Link Division Sialkot	-do-	10,000
3	Chakbandi Division	-do-	20,000
4	Marala Division UCC	-do-	50,000
5	Lahore Drainage Division	-do-	80,000
6	Kasur Division	-do-	80,000
7	Gujranwala UCC	-do-	100,000
8	Rachna Drainage	-do-	42,000
	Total in feet.		422,000
	Total in miles		79.92
PMO BARRAGES			
1	Jinnah Barrage	-do-	20,000
	Total in feet.		20,000
	Total in miles		3.79
	Grand Total (in miles)		350.76

ANNEX XIV: RIVER DISCHARGE RATES

River	Gauge Site	Designed Capacity (lac Cs)	Flood Limits in Lac Cs.				
			Low	Med:	High	Very High	Exp. High
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	10	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
CHENAB	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
	Marala	11	1	1.5	2	4	6
	Khanki	8	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	6.45	1.5	2	3	4.5	6
	Punjnad	7	1.5	2	3	4.5	6
RAVI	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
SUTLEJ	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.