

DISTRICT DISASTER MANAGEMENT PLAN 2025



District: GUJRAT



IDP Camp in 2009



Building Collapse (Gujrat - 2021)



Floods in 2014



Building Collapse, Gujrat (2024)

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XX

Estimated number of people at risk of **floods** in 2025

2%

of total population

Risk: Low

XX

Estimated number of people at risk of flash flood in 2025

3%

of total population

Risk: Low

XX

Estimated number of people at risk of earthquake in 2025

0%

of total population

Risk: Low

XX

Estimated number of people at risk of epidemic

0%

of total population

Risk: Low

EXECUTIVE SUMMARY

District Gujrat has 05 tehsils: Gujrat, Kharian, Sarai Alamgir, Jalalpur Jattan & Kunjha. It is home to more than 3.09 Million people. District Gujrat is bounded 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 05 THQ hospitals, 1 DHQ and Trauma 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-coordinated 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	3,085,871 *census 2023
2.	No. of Tehsils	05
3.	No. of UCs	117 Rural, 12 Urban
4.	No. of Revenue Estates	1084
5.	Population Density (people per km ²)	860 (people per km ²)
6.	Family Size	6.2 Per House
7.	Pop Growth Rate	458,000, a 2.23% increase from 2023
8.	PCI	1.28
9.	Poverty Rate	13%
10.	Patient/Doctor Ratio	110/1
11.	IMR (Infant Motility Ratio)	53/1000
12.	MMR	27/1000
13.	Literacy Rate	81.3%
14.	Global Acute Malnutrition (GAM) rate	14 %
15.	Severe Acute Malnutrition (SAM) rate	5%
16.	Percentage of population having access to clean drinking water	45%
17.	Annual Crime	3345 in 2022 - 10050 in 2025

Population

Total	Male (Above 18)	Female (Above 18)	Minor (M) (Less than 18)	Minor (F) (Less than 18)	Vulnerable People (PLWs, disabled, aged)
3,085,871	1,480,962	1,604,397	512	-	-

Source/Note: Click here to enter text.

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks & Morter)
431,211		

Source/Note: <https://www.pbs.gov.pk/sites/default/files/population/2017/results/04840.pdf>

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
81.3%	82.23 %	72.02 %	85.65 %	80.51 %	83.32 %	74.47 %

Source/Note: <https://www.pbs.gov.pk/sites/default/files/population/2017/results/04813.pdf>

Government Schools

		Schools	Enrollment
Total/ Overall		1459	330884
Boys	Primary	344	61019
	Middle	87	24797
	High	138	71897
Girls	Primary	623	57111
	Middle	124	30750
	High	143	85310
Special Education			794

Private Schools

		Schools	Enrollment
Total/ Overall			
Boys	Primary		
	Middle		
	High		
Girls	Primary		
	Middle		
	High		
Special Education			

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	02	-	-		01	03
No of Students						

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	107	11	1	10	129
Annual OPDs	1,114,198	1,175,623	308,393	197,552	2,795,766
No of beds	370	450	640	1026	2486
Doctors Available	80	26	55	107	268
Paramedical staff	438	62	80	440	1063
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
%	%	%	%	%	%	%	%	%	%	%

Disaster History – Other disasters (since 1970)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	2014	Flood (856464)	10	07	One Of the Most Devastating Natural Disasters.
2	1997	Flood (775525)			
3	1996	Flood (766860)			
4	1992	Flood (845090)			
5	1982	Flood (647098)			
6	1973	Flood (769550)			
7	1966	Flood (618338)			

General Information

Particulars	Detail								
Neighboring districts and their vulnerabilities	Mandi Bahauddin, Wazirabad, Sialkot, Jhelum								
Topographical Features	Pabbi Forest								
Weather/Climate pattern	e.g., max. and min. temperature, annual precipitation, storms, heat waves, snow fall etc. <table> <tr> <td>max Temperature (°C)</td><td>43</td></tr> <tr> <td>min Temperature (°F)</td><td>9</td></tr> <tr> <td>Precipitation / Rainfall (mm)</td><td>230</td></tr> <tr> <td>Storms kmph</td><td>16.5</td></tr> </table>	max Temperature (°C)	43	min Temperature (°F)	9	Precipitation / Rainfall (mm)	230	Storms kmph	16.5
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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	Vulnerable points of motorway/highway - Kharian-Sambrial Motorway (M-11 Extension: The National Highways Authority (NHA) initiated construction of the Kharian-Sambrial motorway in July 2022, extending the existing Lahore-Sialkot Motorway (M-11). This project aims to improve regional connectivity and is expected to be completed within two years. - Gujrat Expressway: To facilitate direct access from Gujrat to the motorway network, a 29-kilometer expressway is planned to link Gujrat city with the Kharian-Sambrial motorway. This expressway is designed to meet motorway standards, featuring fencing to ensure controlled access								
Highway	Several vulnerable points have been identified on the national highways passing through District Gujrat, which pose safety risks to commuters. Notable among these are: Gujrat city service road junction (Beat 8, milestone #1384): The service road from Gujrat city joins the national highway from the right side, contrary to Pakistani traffic regulations, presenting a significant engineering oversight. Blind bridge near "Mian G Hotel" (Beat 8, milestone #1403): A small bridge in the central reservation area creates a blind spot, constituting a serious road engineering fault. Railway flyover bridge in Gujrat (Beat 8): This bridge has large gaps between its blocks, posing threats to vehicles traversing it. Super elevated northbound road near Beat 8 camp (milestone #1386): An unusually elevated straight road section represents a permanent accident black spot due to its flawed design. Lack of storage lanes at U-turns: Many U-turns lack storage lanes for vehicles waiting to turn, making them susceptible to accidents. Notably hazardous U-turns include: - Aziz Industries (milestone #1285) - Kucha Kotha (milestone #1279) Beat 11 - Al-Maraj CNG (milestone #1308) - TOTAL Filling Station (milestone #1315) Beat 10 - Chenab Gate (milestone #1343) - U-Turn at milestone #1350 Beat 9 These points have been identified as highly susceptible to road traffic accidents and require immediate engineering interventions to enhance road safety.								
Railways	Vulnerable points of Railway Alexandra Railway Bridge Chenab Alexandra Railway Bridge breaching section								
Geological features	e.g. fault line, mountainous areas etc. NA								

Dams (including small dams) Nil.

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 Hakim Ali.	1820'	Gujrat	Gujrat	Satisfactory Condition
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

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	132 KV	32*33'13.12"N 74*05'57.90"E	Shadiwal Power House	12 MW	X: Y:
Jalal Pur Jattan Grid Station	132 KV	32*39'29.94"N 74*13'39.43"E			
Awan Sharif Grid Station	132 KV	32*50'36.58"N 74*14'30.10"E			
Dinga Grid Station	132 KV				
Oil Depot/other sensitive installations					
Chak Pirana Oil Depot	-	32.7494 73.9123			

Airport / Landing Strips

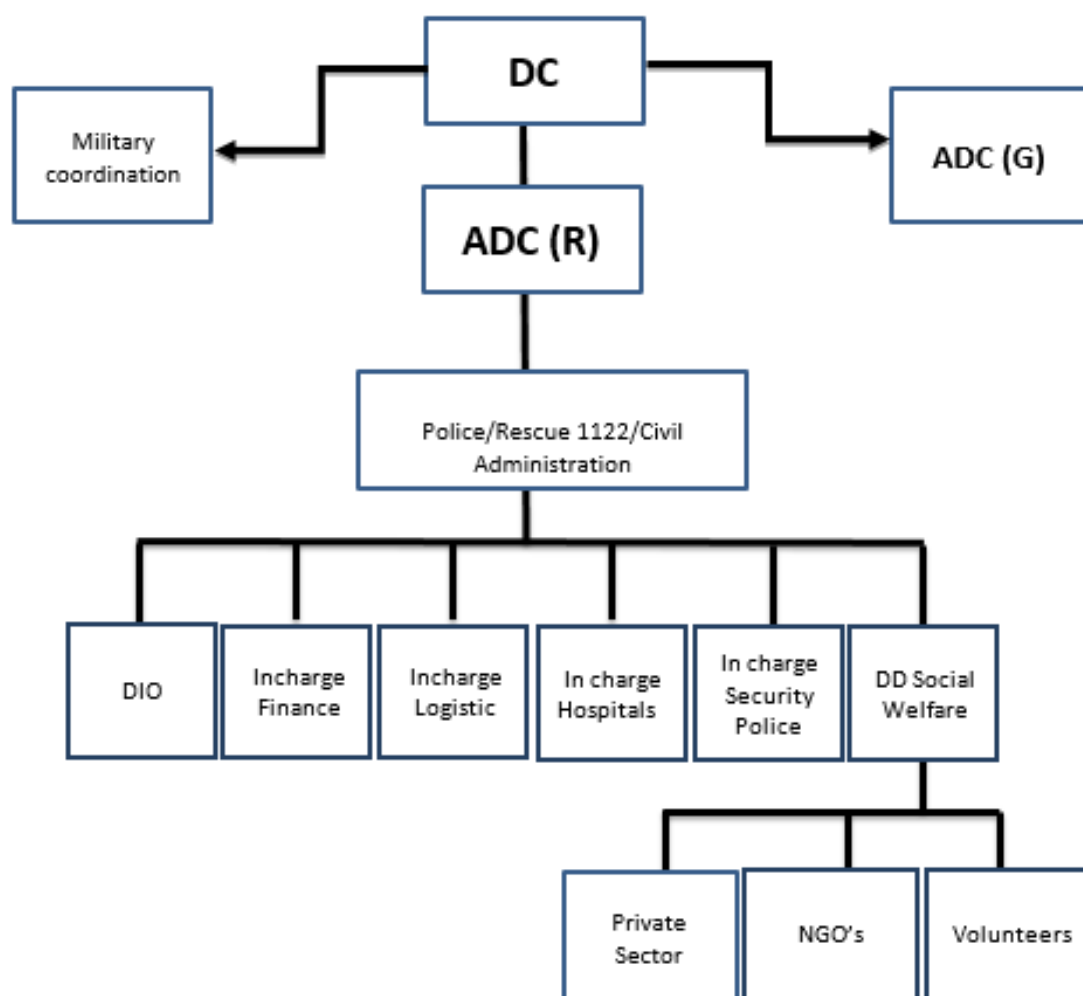
Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
Landing Air Strip	Bhimber Road	32*37'14.46"N 74*04'32.46"E			X: Y:

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

9

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:

- prepare a disaster management plan including district response plan for the district;
- coordinate and monitor the implementation of the National Policy, Provincial Policy, National plan, Provincial Plan and District Plan;
- 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 bowsers. Clean drinking water is a major issue and requirement during any disaster.
- In case of any disaster that requires people to be relocated, the TMA under the concerned Administrator i.e., ADC/AC will assist in the migration of the affected people.
- During the relief effort and subsequent rehabilitation effort the, the local TMAs manpower can be effectively used for the distribution of food and essential commodities among evacuated people or any other relief activity such as provision of cash compensation.

District Disaster Management Authority (DDMA)

- DDMA's are created under the NDM Act 2010 under Chapter IV Section 18 and the law defines their composition and also outlines their functions, duties and powers.
- District Disaster Management Authorities are the first line of defense and the implementing arm of the government policy and plans. Within the district there are three to four key players/departments that have to put up a joint and coordinated effort in order to fight with and handle any disaster under the leadership and coordination of the DCO. The office of the DCO fully supported by the DPO and line departments such as Health, Agriculture, Livestock, Civil Defence, 1122, TMAs and the Revenue Department form the main disaster management team within any given district. This plan is an effort to highlight their sets of responsibilities followed by the role of provincial departments.
- All district administrations had prepared a detailed contingency plan to face any disaster or hazard specially floods which until recently have become an annual affair for some districts.
- The district administration will divide the area as per district division with the Assistant Commissioner as in charge of his/her tehsil. All disaster related activities in a said tehsil will be coordinated through the concerned AC and the TMAs.
- On receipt of a flood warning, immediate warning will be conveyed to all the concerned officers. Immediate action will be taken in each sector / sub sector for evacuation of the population from risk prone areas to safer places or to Relief Camps. An Assistant Commissioner will ensure that announcements are made through loudspeakers of the mosques utilizing the services of the Revenue department. Each Patwari will inform the Numbardar, Headmaster of the School, Imam Masjid and councillors to make announcements etc.
- The tactical operations would be headed by the Additional District Collector (ADC). The ADC would be responsible for coordinating and supervising the disaster control and relief measures in the district.
- Provincial government had notified the following composition of DDMA's for whole of the province:
 - i. **District Coordination Officer (Chairperson)**
 - ii. District Police Officer
 - iii. Additional District Collector
 - iv. Two Elected Representatives to be nominated by the Chair
 - v. Representative of Pak Army
 - vi. Two Representatives of NGOs/Civil Society to be nominated by the Chair
 - vii. District Officer (Coordination)
 - viii. Executive District Officer (F&P)
 - ix. Executive District Officer (Works & Services)
 - x. Executive District Officer (Health)
 - xi. Executive District Officer (Education)
 - xii. Executive District Officer (C&D)
 - xiii. SP Special Branch
 - xiv. XEN Irrigation / Public Health
 - xv. District officer Civil Defense
 - xvi. Administrators of Tehsil Municipal Administrations
 - xvii. All Tehsil Municipal Officers in District
 - xviii. District Emergency Officer, Rescue 1122 (Secretary)
 - xix. Representative of Red Crescent
 - xx. Such other District level Officers to be appointed by District Government

- District Governments must establish a Disaster / Flood control room in existing District Emergency Operation Centre 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 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.
- Regional Transport Authorities 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 Punjab Emergency Service Department (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 Operation Centre / Flood 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.

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 Defense also assists the District Administration and Police in setting up information system for members of public, whose relatives, friends and family members are missing.

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

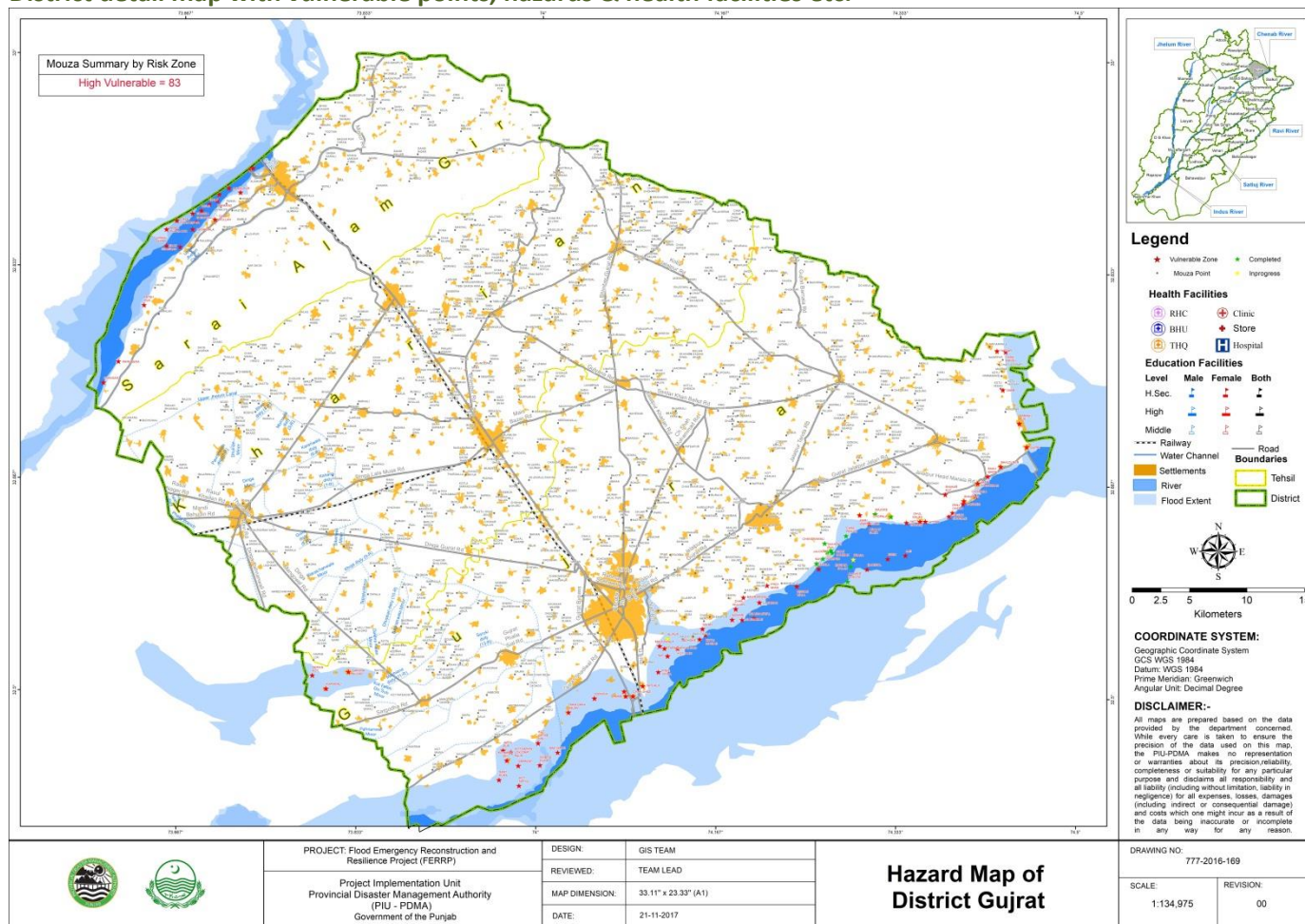
- *Disasters occurred over the past two to three decades and their impact on communities and development sectors*
- *Provide a brief description of the hazards being planned for (medium and high risks), including potential location that could be affected;*
- *Briefly outline the triggers*

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

⇒ Triggers Include

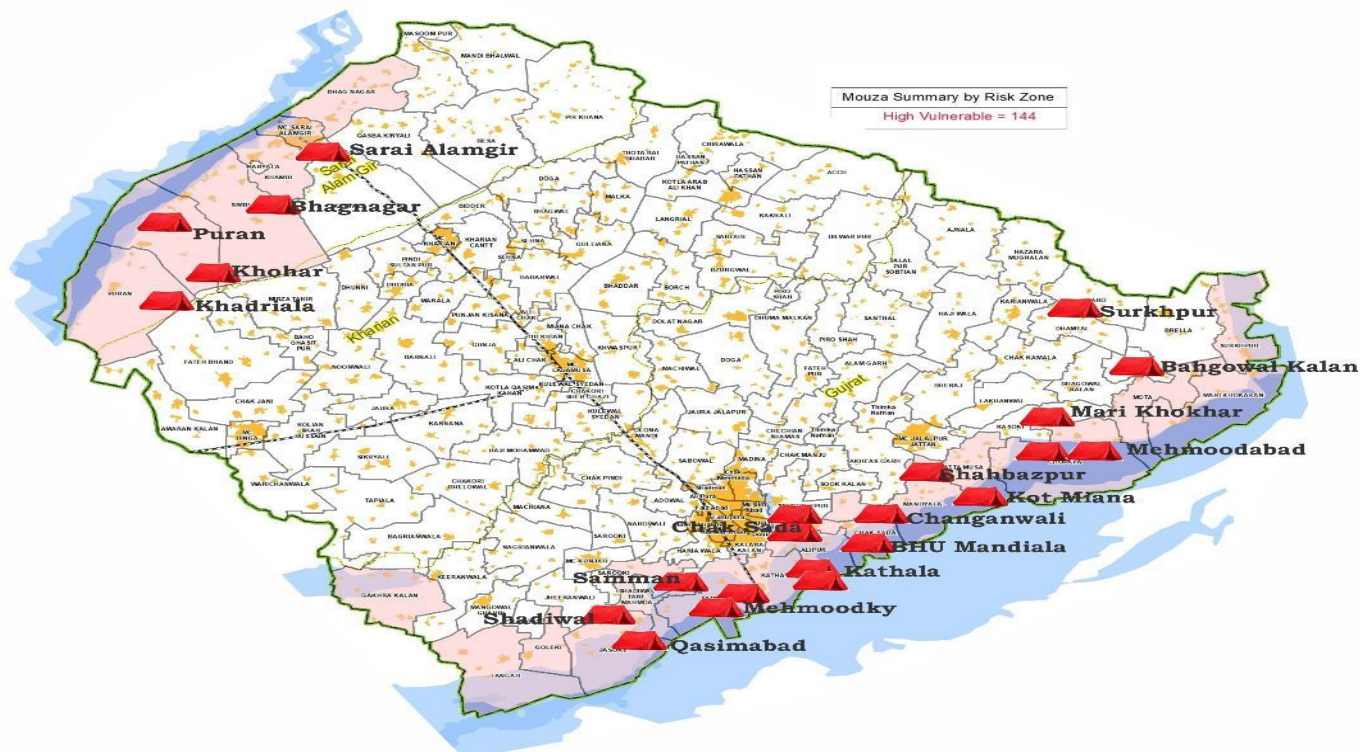
1. Heavy rain
2. Release of dam water from across the border (By India)

District detail map with vulnerable points, hazards & health facilities etc.



Source: PIU-PDMA

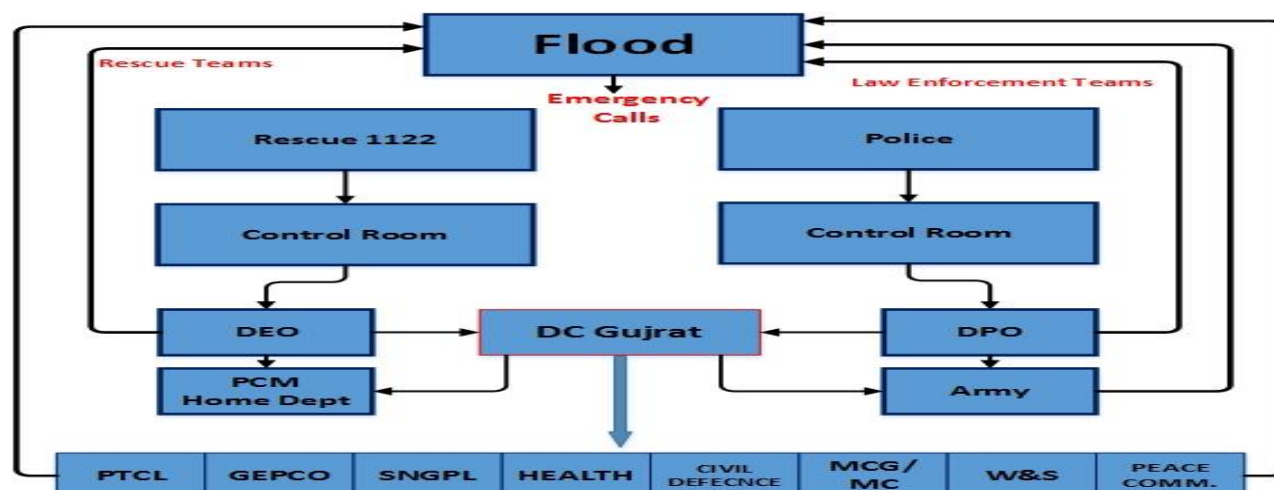
District detail map planned camps, warehouses etc.



S.NO	DISTRICT	TEHSIL	CAMP NAME	LAT	LONG
1.	Gujrat	Gujrat	Govt. Primary School, Marri Khokhran	32.6672656	74.4031547
2.			Govt. Elementary School, Bhagowal Kalan	32.4116.6N	74.1935.3E
3.			Govt. Boys Primary School Surakhpur	32.4245.6N	74.2542.7E
4.			Govt. High School, Mahmood Abad	32.627041	74.238136
5.			Govt. Girls Elementary School, Shahbaz Pur.	32.616223	74.264729
6.			Dera Tariq Mehmood, Kot Miana.	32.611744	74.260584
7.			Dera Muhammad Aslam, Changanwali.	32.621075	74.266075
8.			Govt. Boyes Elementary School, Mehmood Abad.	32.626000	74.240382
9.			BHU Mandiala	32.592616	74.211668
10.			Govt. High School, Chak Sada	32.565563	74.134471
11.			BHU Chak Sada.	32.565877	74.134444
12.			Govt. Boys High School, Kathala.	32.509899	74.100913
13.			Govt. Girls High School, Kathala	32.516403	74.104213
14.			Govt. Primary School, Samma.	32.500574	74.087558
15.			Govt. Girls High School, Shadiwal Mehmoodkay.	32.513040	74.033910
16.			Govt. Boys Primary School, Shadiwal Mehmoodkay.	32.51290	74.033383
17.			Islamic High School Boys, Shadiwal	32.511626	74.033896
18.			Govt. High School Boys, Qasimabad.	32.480418	74.012849
19.		Sarai Alamgir	Govt. High School, Sarai Alamgir	32.899787	73.755962
20.			Govt. High School, Bhagnagar	32.944200	73.811219
21.			Govt. High School, Puran	32.769943	73.621586
22.			Govt. High School, Khohar	32.80540	73.65523
23.			Govt. High School Khadrialia	32.848711	73.684573

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	Demand
Boats	29	24	05	07
OBM	22	21	01	08
De-watering sets	32	25	07	12
Navigators	28	28	0	0
GIS devices	0	0	0	0
Life Jackets	376	356	20	04
Life Ring	125	125	-	-
Life Lines	3	3	0	5
Scuba diving suit with complete accessories	06	06	0	05
First Aid Kits	-	-	-	502
Rescue Bag	18	18	0	10
Safety Harnesses	5	5	0	5
Ambulances	22	22	0	0
Fire Brigade	08	08	0	0
Water Tanks / Bouzers	10	10	0	0
Extendable Ladders	0	0	0	0
Hydraulic Cutter	2	2	0	0
Jumping Sheet	0	0	0	0
Dumpers	13	11	2	-
Excavators	2	2	0	0
Cranes	0	0	0	0
Dozer	0	0	0	0
Trolleys	28	26	2	-
Pickups/Jeeps/4x4 vehicles/Mini Trucks	0	0	0	0
Searchlights	32	32	0	-
Generator with Searchlight Stand	06	03	03	02
Tent	688	201	487	15
Mosquito Net	24	04	20	1000
Plastic Mat	270	100	170	-
Blanket	289	127	162	-
Any other main relief/rescue equipment	0	0	0	0
Generator Sets	13	09	04	02
Gas-Cutters	0	0	0	0
Sonar Radars	0	0	0	0
Loader Rickshaw	49	45	04	-
Tractors	64	62	2	0
Boat Carrier	3	3	0	3

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.)

Items	Demand
Boats	07
OBM	08
De-watering sets	12
Life Jackets	04
Life Lines	05
Scuba diving suit with complete accessories	05
First Aid Kits	502
Rescue Bag	10
Safety Harnesses	05
Generator with Searchlight Stand	02
Tent	15
Mosquito Net	1000
Generator Sets	02
Boat Carrier	03

MITIGATION STRATEGY

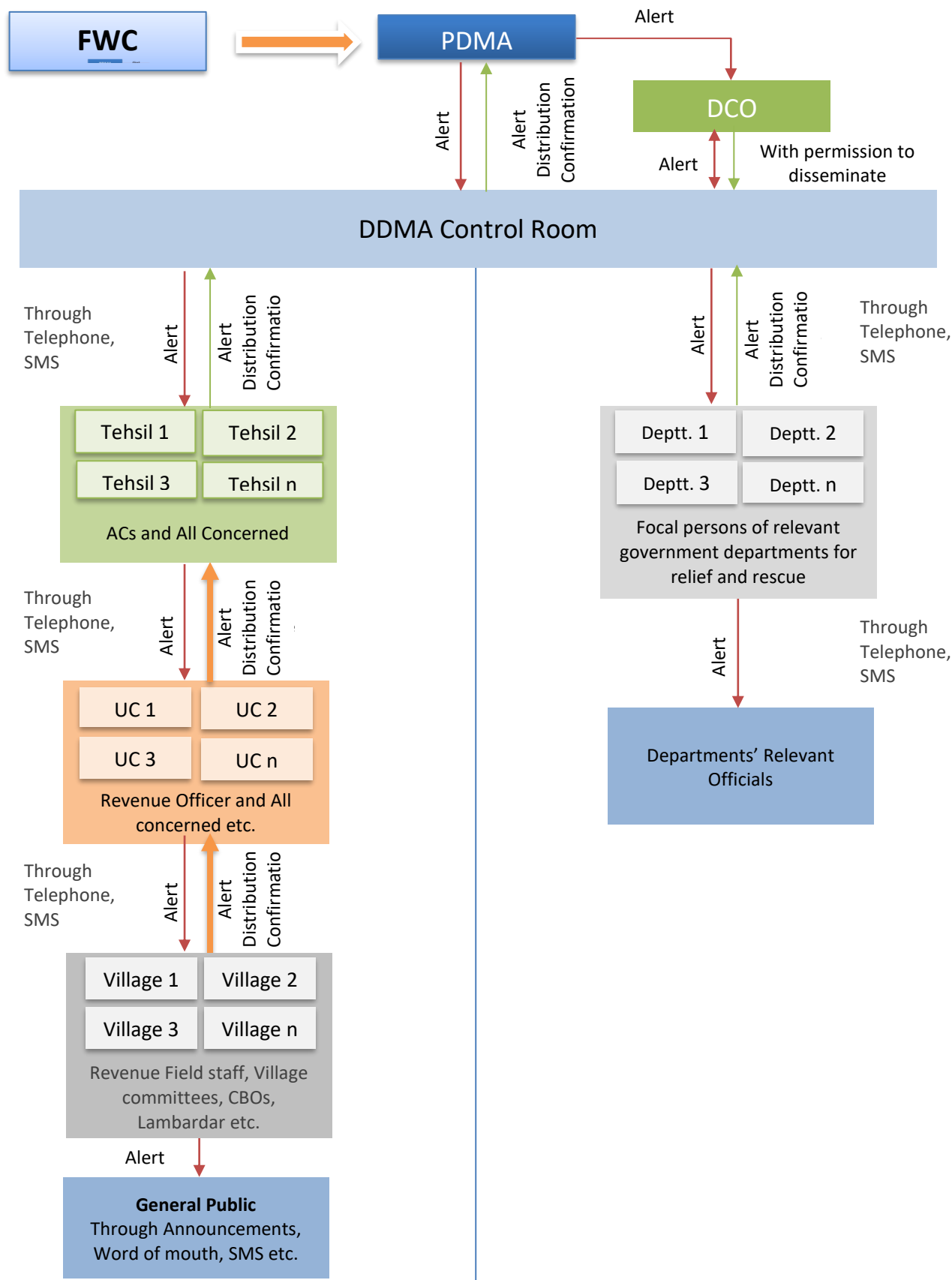
- ✓ Briefly describe what measure could be taken to reduce the impact of the potential disasters.
- ✓ Strategic pre-positioning of available relief stocks
- ✓ Public education and community awareness

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 & Labor 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, ChattarKalas, 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.

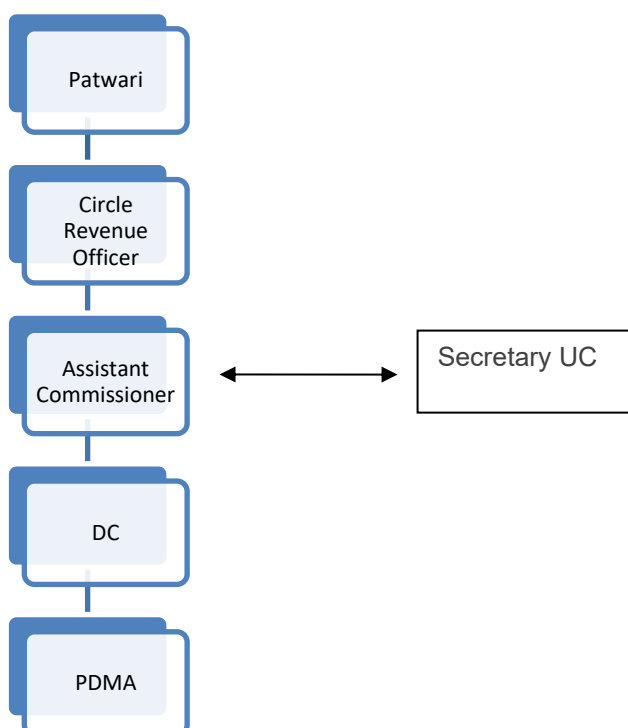
RESCUE STRATEGY

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: -



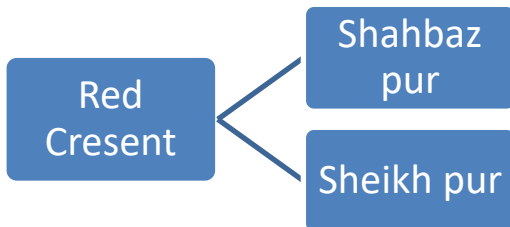
2. Priority needs would be determined according to population density of affected area
3. Evacuation through boats by Rescue 1122 & volunteers of civil defence

- ♦ Shifting to safe location by Secretary RTA
- ♦ Vaccination and first aid by Health Department
- ♦ Management and coordination by Assistant commissioner

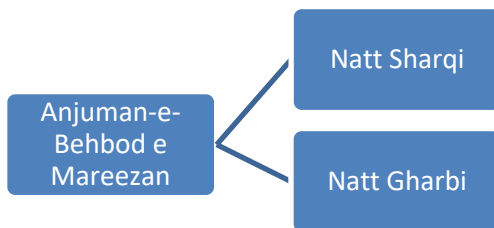
Standardized packages would be provided as per tender.

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

(1)



(2)



CONDUCT OF PRE-FLOOD MOCK EXERCISE:

Pre- Flood Mock exercises will be conducted in last week of May & June, 2024 under the chairmanship of worthy Deputy Commissioner Gujrat participating all line departments of DDMA Gujrat actively to demonstrate their level of preparedness against upcoming flood season, to develop a joint response mechanism, to improve coordination, to appreciate joint flood response strategic planning & capacity building. Below is the detail of stalls will be established at venue during Pre-Flood mock exercise: -

Incident Command Management Post (ICMP) established by Punjab Emergency Service.
 Medical Camp established by Punjab Emergency Service.
 Field Rehabilitation center.
 Logistic & Support.
 Mobile workshop.
 Medical Camp established by District Health Authority.
 Community Safety & Awareness camp established by Civil Defence Department.
 Animal welfare and medical care camp established by Livestock department.

ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

S. #	Location	No. of persons which can be accommodated	GPS Coordinates	
Tehsil Gujrat				
1	Govt. Primary School, Marri Khokhran	100	32.6673	74.4032
2	Govt. Elementary School, Bhagowal Kalan	160	32.4116	74.1935
3	Govt. Boys Primary School Surakhpur	100	32.4245	74.2542
4	Govt. High School, Mahmood Abad	1000	32.6270	74.2381
5	Govt. Girls Elementary School, ShahbazPur.	500	32.6162	74.2647
6	Dera Tariq Mehmood, Kot Miana.	50	32.6117	74.2606
7	Dera Muhammad Aslam, Changanwali.	100	32.6211	74.2661
8	Govt. Boyes Elementary School, Mehmood Abad.	500	32.6260	74.2404
9	BHU Mandiala	150	32.5926	74.2117
10	Govt. High School, Chak Sada	150	32.5656	74.1345
11	BHU Chak Sada.	170	32.5659	74.1344
12	Govt. Boys High School, Kathala.	200	32.5099	74.1009
13	Govt. Girls High School, Kathala	180	32.5164	74.1042
14	Govt. Primary School, Samma.	200	32.5006	74.0876
15	Govt. Girls High School, Shadiwal Mehmoodkay.	250	32.5130	74.0339
16	Govt. Boys Primary School, Shadiwal Mehmoodkay.	60	32.5129	74.0334
17	Islamic High School Boys, Shadiwal	200	32.5116	74.0339
18	Govt. High School Boys, Qasimabad.	150	32.4804	74.0128
Tehsil Sarai Alamgir				
19	Govt. High School, Sarai Alamgir	250	32.8997	73.7559
20	Govt. High School, Bhagnagar	250	32.9442	73.8112
21	Govt. High School, Puran	150	32.7699	73.6216
22	Govt. High School, Khohar	200	32.8054	73.6552
23	Govt. High School Khadriala	220	32.8487	73.6846

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> SADHOKE CHANGANWALI CHANGANWALI CHAK MULLAN BC	<u>KHARIAN</u> CHAK SIKANDAR GOTREIALA DHAO

			SINGANWALA BC	
			GORALI	CHAK MIANA
			MALKOWALA	LALAMUSA
			TARA GARH KHURD	BAHARWAL
			KALEKI	JAYPUR
			KOT PATO	AKIA
			KOTLI GOIAN	KHOONAN
			CHAK GHAZI	MURRARIAN
			KATHALA	CHAK BHAGO
			NAT	BHADDAR
			PINDI TATAR	LUQMAAN
			SAMMA	<u>SARAI ALAMGIR</u>
			GORIAYA	SARAI ALAMGIR
			MOHLA	NOTHIA QURESHIAN
			MOHLA	KAKROT
			TARA GARH KALAN	MAHEY KHURD
			QILADAR	CHAK NATHA
			SHADIWAL TARF KHANKY	KHANPUR KHAMBI
			SHADIWAL TARF MAHMDA	BHROAT
			ALIPUR	BRAND
			BHAGOLA	KHAL
			KOT RANDHAWA	KHOHAR
			KOTLI KANDU	DHORI
			RATTI	BHALWAL GHARBI
			RAWALKE	KHADRIALA
			SHADIWAL CHUHERKEY	KHARKA
			SHADIWAL ICHHERIKEY	NANWAL
			NOORA	PAHARWAL
			ADALAT GARH	CHAK SHAKARPUR
			ALI SHER MOHOTA	DOLO
			HEER	KHIDARIALA
			KHASA	MALO
			MAHIWAL	NAROWAL
			MOHATA KALAN	CHANGAS
			NOUSHERA MIANA	DHORI
			PUTARI	WARHEENA
			SUNN	BARRAND
			UMAR WAL	BHALWAL GHARBI
			BAWRIANWALA	GURRAH JATTAN
			CHAK MILLAN	KHARKA
			JALOWALI	KHOHAR
			KOT NIKKA	FATEH PUR
			LAMBHAR	PURAN
			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) BELA SHADIWAL RAKH MARRI BAHLOLPUR QURRI CHOPALA JSIM DHUL KALAN NANOWAL NAT SHARKE MAJOKE	Dhok Muslam Chack Sikander Ranial
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			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 CHO GANI DABB	
Urban Flooding	City Gujrat	Urban UCs		
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	Anees Haider 03446865061	flood
2	BHU Thatha Musa, UC Thathamusa.	X: Y:	primary	Shahzad Ahmad 0333-8460751	flood
3	BHU Surkhpur , UC Surkh Pur	X: Y:	primary	Faisal Shahzad 0300-6219694	flood
4	BHU Sheikh Chogani, Marri Khokharan	X: Y:	primary	Nabeel Ahmad 0343-6057142	flood
5	BHU Mandiala, UC Mandiala	X: Y:	primary	Syed Kamran 0349-3476040	flood
6	BHU Chak Sada, UC Chak Sada	X: Y:	primary	Amman Ullah 0331-5387403	flood
7	BHU Gorala UC Kathala Chinab	X: Y:	primary	Dr.Saira Aslam MO 0331-6204512	flood
8	BHU Harriawala,	X: Y:	primary	Inam Ul Haq 0346-4025741	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.)
	UC Hariawala				
9	BHU Goleki UC Goliki	X: Y:	primary	Ali Hassan 0345-0667834	flood
10	RHC Sarai Alam Gir UC Sarai Alamgir Urban	X: Y:	primary	Muneeb Arshad 0313-0557760	flood
11	BHU Chachian Dittewal UC Adowal	X: Y:	primary	Muhammad Saeed 0300-0518407	flood
12	CH Dinga UC Dinga	X: Y:	primary	Ajmal 0301-6242166	flood
13	BHU Khohar UC Khohar	X: Y:	primary	Muneeb Arshad 0313-0557760	flood
14	BHU Sardhok UC Simbli	X: Y:	primary	Muneeb Arshad 0313-0557760	flood
15	CH LAlamusa UC LAlamusa	X: Y:	primary	Shafique Ahmad 0302-6281732	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	ASHRAF	03066271981
2	GHSS KATHALA CHENAB	School	32°30'38.89"N	74°05'49.72"E	849		
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	MUHAMMAD ANWAR	03041600658

S#	Name	Institute type (School, College etc.)	GPS Coordinates		Enrolment	Incharge Name	Contact Number
5	GHS PAK SHADIWAL	School	32°30'41.15"N	74°02'03.06"E	410	ABDUL ALEEM TAHIR	03338402082
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	AQSA RUBAB	03354371481
8	GHS BHAG NAGAR	School	32°56'37.84"N	73°48'39.75"E	421	MUHAMMAD SAFDAR	03009520312
9	GHS KHARKA KHADRIALA	School	32°50'51.49"N	73°41'07.74"E	631	RAZI AKBAR AYAZ	03065817696
10	GHS S.A. GIR	School	32°53'10.66"N	73°45'30.39"E	1029	PARVIAZ AHMAD CHEEMA	03348604348

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 Road Gujrat	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 Raiway 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 Insaniyat 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 ADC-R / DFRO	KHIZAR HAYAT	(053) 9260061		0321-2078321
2	Commissioner	Naveed Haider Shirazi	055-9201303 055-9201329		-
3	RPO	Syed Hafeez Cheema	(055) 9200601		-
4	DC	Safdar Hussain Virk	053-9260010	053-9260011	0304-0920066
5	DPO	Mustansar Atta Bajwa	(053) 9260026		-
6	ADC (R)	KHIZAR HAYAT	(053) 9260061		0321-2078321
7	DEO Rescue 1122	Umar Akbar Ali Ghumman	(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	Bilal Zubair	053-9260063		
11	AC -Kharian	Ahmed Sher Gondal	053-9240212		0343-7546426
12	AC –Sarai Alamgir	Farooq Azam	0544-651812		0345-4917495
16	MC(CO) –Gujrat	Haliq Dad Garrha	053-9260284		0321-4422881
17	MC(CO) –Kharian	Mirza Mushraf Baig	053-9240050		0333-2007575
18	MC(CO) –Sarai Alamgir	Qaiser Ameen	0544-291389		0300-8888605
22	MC(CO), Kunjah	Naveed Ashraf	053-3381223		0300-6272164
23	MC(CO), Jalal Pur Jattan	Khawar Abbas	053-3594700		0300-9621208
24	MC(CO), Lala Musa	Tanveer Abbas	053-7517245		0301-6279207
25	MC(CO), Dinga	Umair Sultan	053-7401346		0315-7640360
19	CEO Education	Nazia Shahzadi	053-9260301		0335-4307418
20	XEN Irrigation	Faisal Sardar	053-9260398		0322-4642531
26	DD Agriculture	Dr.Athar Latif	053-9260345	--	0300-6206670
27	CEO Health	Dr. Zakir Hussain	053-9260105		0300-6203751
30	AD Livestock	Dr. Tahir Aziz	053-9260407	--	0321-6226280
31	WAPDA/GEPCO Circle Gujrat	Shafeeq-Ul-Rehman	053-9260232	053-9260233	
32	DDO Social Welfare		053-9260134		

ANNEX VIII: LIST OF VOLUNTEERS

Sr.	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Nazir Ahmed	34201-1619703-1	Village Surkian, Gujrat	0308-5950829	O+	1hrs
2	Husnain Ali	34201-7462752-9	Village Surkian, Gujrat	0317-7254702	B+	1hrs
3	Zeeshan Safdar	34201-4033739-3	Village Surkian, Gujrat	0348-8747796	A+	1hrs
4	Muhammad Bilal	34201-2810254-3	Village Surkian, Gujrat	0340-4663981	A+	1hrs
5	Yasir Nadeem	34201-5207499-5	Village Surkian, Gujrat	0303-6811025	A+	1hrs
6	Rashid Ali	34201-9527919-5	Village Surkian, Gujrat	0334-9936486	B+	½ hrs
7	Zaigham Ashraf	34201-3028439-1	Village Surkian, Gujrat	0302-6934690	B+	1hrs
8	Mehtab ul hassan	34201-0457718-7	Village Surkian, Gujrat	0305-2938978	AB+	1hrs
9	Hassan Afzal	34201-8942413-7	Village Surkian, Gujrat	0347-8469737	B+	½ hrs
10	Haroon Ahmed	34201-3202585-5	Village Surkian, Gujrat	0347-0465581	A+	½ hrs
11	Ali Shan	34201-6632531-9	Village Surkian, Gujrat	0324-4637138	A+	½ hrs
12	Abdul Moeed	34201-4371085-1	Village Samma, Gujrat	0311-7984849	B+	½hrs
13	M. Shayan Sohail	34202-3707310-1	Village Samma, Gujrat	0323-7566004	B+	1hrs
14	Sajjad Ali	34201-3859478-9	Village Moin Ul Din Pur, Gujrat	0310-7139953	B+	1hrs
15	Hashim Raza	34201-4972422-1	Village Moin Ul Din Pur, Gujrat	0344-4250096	B+	1hrs
16	syed ali hamza	34201-2588832-9	Village Moin Ul Din Pur, Gujrat	0349-1613713	B+	1hrs
17	syed noroze	34201-1037211-5	Village Moin Ul Din Pur, Gujrat	0340-6112872	O+	1hrs
18	syed Izan	34201-3797833-5	Village Moin Ul Din Pur, Gujrat	0311-7730652	B+	1hrs
19	Syed shoaib	34201-5728446-5	Village Moin Ul Din Pur, Gujrat	0318-4217275	O+	½ hrs
20	Syed jaffar	34201-9516191-3	Village Moin Ul Din Pur, Gujrat	0344-2001732	O-	1hrs
21	Syed bilal shah	34201-5882829-7	Village Moin Ul Din Pur, Gujrat	0322-9634233	A+	1hrs
22	Syed zaman abbas	34201-5618084-3	Village Moin Ul Din Pur, Gujrat	0318-7851114	O+	½ hrs
23	Saleh Muhammad	21201-6555844-9	Village Moin Ul Din Pur, Gujrat	0330-5267124	O+	½ hrs
24	Syed Danish Abbas	34201-3796978-5	Village Moin Ul Din Pur, Gujrat	0320-6052152	B+	½ hrs
25	Irtaza shah	34201-2395880-1	Village Moin Ul Din Pur, Gujrat	0321-6297203	B+	½hrs

ANNEX VIII (B): LIST OF SWIMMERS/DIVERS

Sr	Name	Father Name	Contact #	CNIC #	Time Required to be on-board	Address
1	Abrar Hyder	Ghazanfar Ali	0346-8276719	34201-4428822-7	30	Gujrat
2	Mudassar Arif	M Arif	0333-8427471	34201-7124394-9	30	Gujrat
3	M Ishtiaq	M Mushtaq	0331-4832770	34201-2285672-7	30	Gujrat
4	Shakar Zubair Mehdi	Mehdi Khan	0307-6287712	34202-1090935-9	30	Gujrat
5	Waseem Yousaf	M Yousaf	0305-5853911	34201-8537572-1	30	Gujrat
6	M. Adnan Khan	Akbar Khan	0331-8435801	34101-7650997-9	30	Gujrat
7	Ansir Mehmood	Nasir Mehmood	0340-4731122	34104-4156560-9	30	Gujrat
8	BABAR MUSHTAQ	M MUSHTAQ	0303-9591242	34104-4468692-1	30	Gujrat
9	FARHAN ALI	BASHIR AHMED	0343-6056651	34201-4603157-9	30	Gujrat
10	Hafiz Faiz Rasool	Ghazanfar Ali	0300-6630781	34201-1925487-5	30	Gujrat
11	Khurram Shahzad	M Sadique	0343-6224933	34201-7181057-9	30	Gujrat
12	M KASHIF	IFTIKHAR AHMED	0312-0207000	34201-4625650-5	30	Gujrat
13	Naveed Rafique	M Rafique	0344-6067139	34101-6623147-7	30	Gujrat
14	Qaiser Mehmood	M Aleem	0321-6294702	34104-7081977-3	30	Gujrat
15	RAJAB ALI SHAH	MUZAFFAR ALI SHAH	0334-4672294	34202-5633420-7	30	Gujrat

16	UMER FAROOQ	MUSHTAQ AHMED	0345-7196376	34201-6269330-7	30	Gujrat
17	Bilal Hassan Abbas	Zia Ul Hassan Zia	0333-8457605	34202-8610591-3	30	Gujrat
18	M Aslam Ullah	M Zaman	0344-4575214	34201-5643246-7	30	Gujrat
19	M WAQAS HUSSAIN	M LATIF	0346-5353196	34203-7994341-7	30	Gujrat
20	M. Taqi Shah	Khadim Hussain	0313-8401122	33202-1416283-9	30	Gujrat
21	Malik Hasnain Nazar	Nazar Hussain	0344-5989718	34202-8081642-7	30	Gujrat
22	Mudassar Iqbal	M Ishaq	0333-8486320	34201-1557333-9	30	Gujrat
23	NUMAN ALI	BASHIR AHMED	0308-6428080	34201-1553665-1	30	Gujrat
24	Shoaib Tariq	Tariq Mehmood	0333-4319097	34201-1584160-7	30	Gujrat
25	Zeeshan Ahmed	M Hanif	0343-4461344	34202-8102094-1	30	Gujrat
26	Abid Aziz	Abdul Aziz	0322-8097304	35202-8559116-7	30	Gujrat
27	Muhammad Bilal	Allah Ditta	0301-5112213	34201-1223779-5	30	Gujrat
28	Adeel Sarwar	M Sarwar	0343-6792053	34201-1221963-3	30	Gujrat
29	Aurangzeb Anjum	M Rafique	0347-4052360	34201-7446953-9	30	Gujrat
30	Farhat Iqbal	M Iqbal	0333-4359238	34202-0825001-3	30	Gujrat
31	HAFIZ ASIM SAQLAIN	M SIDDIQUE	0320-6227153	34201-3257651-1	30	Gujrat
32	Ihsan Ullah Khan Niazi	Habib Ullah Niazi	0308-6644336	35102-0425477-9	30	Gujrat
33	ABU BAKAR	ALI BAHADUR	0342-9898668	34201-7986503-3	30	Gujrat
34	KHURRAM SHAHZAD	M JAVEED	0311-0780541	34201-6397922-1	30	Gujrat
35	M Dilshad Iqbal	M Iqbal	0333-4278485	34104-1577377-5	30	Gujrat
36	M Usman Safdar	Safdar Ali	0301-6264110	34201-7307239-3	30	Gujrat
37	M ZAMAN	M NAWAZ	0345-5702308	34203-3409476-9	30	Gujrat
38	M ZUBAIR	SADIQ HUSSAIN	0305-8484024	34201-4935799-9	30	Gujrat
39	Fahad Afzal	Muhammad Afzal	0304-6269150	34201-2684716-9	30	Gujrat

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-62	Ch. Ilyas			PP-27	Raja M. Aslam Khan		
NA-63	Ch. Hussain Elahi			PP-28	Shahid Raza		
NA-64	Ch. Salak Hussain			PP-29	Khalid Javed Asghar		
NA-65	Naseer Ahmed Sidh			PP-30	M. Abdullah Waraich		
				PP-31	Shafay Hussain		
				PP-32	Ch. Moosa Elahi		
				PP-33	Madad Ali Shah		
				PP-34	Ch. Ijaz Ahmad		

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	District Chairman	Gujrat	M Ali Tanveer		0302 6289966
2	District Vice Chairman	Gujrat	Shoaib Raza		0300 9452737
3	District Vice Chairman	Gujrat	Sher Afzal		0301 8433765
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		SURKHPUR	Muhammad Arshad s/o Babu Khan	0342-4606609	Muhammad Ashraf s/o Muhammad Alam	0333-3562555
2		BRELLA	Fayyaz Ahmad s/o Ch. Muhammad Arshad	0301-8668041	Muhammad Aslam s/o Allah Ditta	0305-4274735
3		MARI KHOKARAN	Zia Mahudin s/o Muhammad Akram	0320-4500005	Muhamad Younis s/o Yameen	0333-843864
4		MOTA	Nazir Ahmed		Shairaz ul Haq	
5		TANDA	Muhamma Rafiq		Ansar Mehmood	
6		DHAMTAL	Aqeel Baig s/o Rafique Baig	0306-6290968	Rashid Meer	0300-6253314
7		BARO	Imtiaz Ahmed s/o Wali Muhammad	0301-3093092	Muhammad Arif s/o Muhammad Shafi	0307-6233741

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
8		KARIANWALA	Haroon Rasheed Butt s/o Abdul Rasheed Butt	0300-8623081	Muhammad Ashraf	0301-6255566
9		HAZARA MUGHALAN	Ahmad Khan s/o Mian Khan	0301-6219339	Muhammad Arif s/o Muhammad Din	0346-4727972
10		AJNALA	Nawabazada Tahir UI Mulak s/o Rauf UI Mulak	0300-8620047	Waqar Nasar s/o Nasar Ullah	0345-6892345
11		JALAL PUR SOBATIAN	Zafar Iqbal s/o Mehdi Khan	0346-8505055	Safdar Hussain s/o Rehmat Khan	0300-7476512
12		DHUMA MALKAN	Amir Nadeem Mehdi s/o Ch. Mehdi Khan	0300-8725373	Zahid Abbas s/o Nadir Khan	0300-9629202
13		HAJI WALA	Muhammad Ali Tabassum s/o Ahmed Khan	0300-8620216	Ghulam Rasool s/o Muhammad Ali	0302-6239179
14		SANTAL	Ch. Muhammad Akram s/o Haji Ghulam Muhammad	0333-8404328	Raheem Akhtar s/o Muhammad Akhtar	0300-6249984
15		CHAK KAMALA	Muhammad Ilyas s/o Mian Khan	0301-6263553	Qaiser Farooq s/o Muhammad Khan	0333-8196445
16		THIMKA NAFRIAN	Muhammad Amjad s/o Muhammad Anwar	0300-9625625	Maqsood Hussain Shah s/o Syed Fazal Hussain	0300-8628108
17		BHERAJ	Muhammad Maqsood s/o Akbar Ali	0300-0950536	Ch. Nadeem Aftab s/o Aftab Ahmed	0300-6258004
18		LAKHANWAL	Numan Sarfraz Khan s/o Nasar Ullah Khan	0345-4000494	Muhammad Malik s/o Muhammad Sadiq	0323-6167855
19		BHAGOWAL KALAN	Tanveer Ahmed s/o Bashir Ahmed	0300-6201632	Altaf Hussain s/o Khushi Muhammad	0302-6291737
20		KASOKI	Safdar Hussain s/o Dilawar Hussain	0331-3535814	Khawar Saeed s/o Muhammad Bashir	0300-6258706

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
21		CHOPALA	Muhammad Arshad s/o Peeran Ditta	0345-8401715	Mohsin Ashraf s/o Muhammad Ashraf	0345-6902280
22		THATHA MUSA	Syed Abul Hassan Shah s/o Syed Shabir Hussain Shah	0300-9624759	Zaman Mehdi s/o Muhammad Saleh	0300-6255155
23		MANDIALA	Sajjad Ahmad s/o Mian Khan	0300-6210718	Atif Ali Khan s/o Saadat Ali Khan	0344-6258949
24		IKHLAS GARH	Adeel Ahmad s/o Nazir Ahmed	0345-4408299	Ali Akbar s/o Sardar Khan	0302-6611001
25		ALAM GARH	Ch. Iftikhar Ahmad s/o Ch. Inayat Ali	0300-6200545	Muhammad Rauf s/o Mian Khan	0333-8464538
26		PERO SHAH	Nisar Ahmad s/o Muhammad Iqbal	0300-9801599	Muhammad Anwer s/o Muhammad Bashir	0345-6934649
27		FATEH PUR	Ch. Kashif Mehmood s/o Asghar Ali	0300-9628213	Qaisar Farooq s/o Nadir Ali	0300-6209753
28		CHEHIAN SHAMAS	Ch. Muhammad Afzaal Akbar Chechi s/o Muhammad Akbar	0300-9625762	Qasim Ali s/o Liaqat Ali	0300-6245350
29		CHAK MANJU	Ch. Shaukat Mehmood s/o Ch. Muhammad Khan	0300-8620274	Umar Ilyas s/o Muhammad Ilyas Ch.	0321-6223011
30		SOOK KALAN	Ch. Muhammad Iqbal s/o Khushi Muhammad	0300-8621411	Muhammad Shahid Akhtar s/o Rooh Ullah	0321-6211101
31		CHAK SADA	Shahzad Javed s/o Javed Akhtar	0300-6200478	Nadeem Abbas s/o Ch. Allah Ditta	0300-9621515
32		KHATALA	Kaleem-ud-Din Warraich s/o Nasrullah Khan	0300-8625240	Rauf Munir Ahmed s/o Ch. Muhammad Bashir	0302-6622888
33		ALI PUR	Mirza Saleem Baig s/o Mirza	0321-6405639	Ch. Mudasar Mehmood	0301-6217910

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
			Muhammad Hayat		Warraich s/o Ch. Muhammad Rafique	
34		MOINUDINPUR	Syed Aqeel Abbas s/o Syed Talib Hussain	0300-9620817	Syed Khalid Hussain s/o Syed Muhammad Fazal	0331-4897356
35		MADINA	Syed Fazeelat Hussain Shah s/o Syed sadiq Hussain Shah	0300-6252889	Intasar Ahmed Ch. s/o Ch. Iftikhar Ahmed	0313-8585852
36		JAURA JALAPUR	Gulzar Hussain s/o Ali Muhammad R/O Malhu Khokhar	0300-6202126	Nasarullah s/o Sardar Khan	0305-4282300
37		DOGA	Ch. Ateeq Zaman s/o Ch. Muhammad Zamman Doga	0300-9623285	Ch. Aurang Zaib s/o Ch. Niaz Ali	0333-8469957
38		DOLAT NAGAR	Nazir Ahmed s/o Ilam Din	0333-8452675	Badarudin s/o Ch. Muhammad Afzal	0300-8723985
39		MACHIWAL	Muhammad Nawaz s/o Niaz Ali	0300-9626674	Umar Zaman s/o Muhammad Zamman	0345-6876221
40		DEONA MANDI	Shahzad Iqbal s/o Ch. Muhammad Iqbal	0340-6250253	Mian Khan s/o Sahib Dad	0313-7802422
41		SABOWAL	Najam ul Hasan s/o Khadim Hussain	0302-8620786	Sarfraz Ahmed s/o Mustaq Ahmed	0333-8423251
42		ADOWAL	Rukhsar Ahmed s/o Muhammad Azam	0333-8463311	Asif Mehmood Ch. s/o Muhammad Afzal Ch	0300-8620202
43		SHEIKH SUKHA	Muhammad Yousaf s/o Nazar Muhammad	0300-6207981	Azmat Ullah s/o Zafar Ullah	0333-9258164
44		HARIAWALA	Touseef Liaqat s/o Ch. Liaqat Hayat	0300-8621417	Muhammad Riaz s/o Ghulam Rasool	0341-5085521

S#	Tehsil	UC	Chairman	Chairman Contact	Vice Chairman	VC Contact
45		SAMMAN	Muhammad Afzal s/o Muhammad Akbar	0300-6202286	Arif Mehmood s/o Walayat Baig	0301- 5984177
46		JASOKI	Ch. Safdar Mumtaz Sandhu s/o Mumtaz Ahmed Sandhu	0300-9622355	Arfan Zaka s/o Ch. Zaka Ullah	0321- 6256556

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-	Khangarh 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.				Exp. High
			Low	Med:	High	Very High	
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	10	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
CHENAB	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
	Marala	11	1	1.5	2	4	6
	Khanki	8	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	6.45	1.5	2	3	4.5	6
	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.