

DISTRICT DISASTER/FLOOD MANAGEMENT PLAN 2020

Division: Multan

District: Multan



IDP Camp in 2009



9 schoolchildren injured in Multan roof collapses



Floods in 2014



PIA Flight (Fokker-688) crashed at Suraj Miani, Multan-2006

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Approved by: Deputy Commissioner, Multan



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Flood

Estimated number of people at risk of **floods** in 2018



Risk: High

Hill Torrent

Estimated number of people at risk of Hill Torrent in 2018



Risk: Low

Earthquake

Estimated number of people at risk of **earthquake** in 2018



Risk: High

Epidemic

Estimated number of people at risk of **epidemic** in 2018



Risk: Low

EXECUTIVE SUMMARY

Multan's history ways back 5000 BC, it was ruled by various ancient empires i.e. Indo-Greek Kingdom, Kushan Empire, Gupta Empire, White Huns, Kushano-Hephthalites and Shah Kingdom. During Muslim era, Dehli Sultnate and Mughal Empire also ruled here. British came here in 1849 and established system of Administration and Transportation Network. It is the center of Islamic teachings and many Sufi Saints established their schools to spread Islam in Sub-Continent. CDG Multan was created in 2005.

Major Hazards

- Floods
- Earthquake
- Building Collapse Incidents
- Fire Incidents
- Road Traffic Accidents
- Bomb Blast / Terrorism

Response Objectives are as follows:

- Established the institutional and legal system for disaster management
- Prepare Disaster Management Plans at various levels
- Conduct multi-hazard, vulnerability and risk assessment
- Establish multi-hazard early warning and evacuation systems
- Promotion of training, education and awareness in relation to disaster management.

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	4745109
2.	No. of Tehsils	4
3.	No. of UCs	185
4.	No. of Revenue Estates	534
5.	Population Density (people per km ²)	760
6.	Family Size	6
7.	Pop Growth Rate	2.23
8.	PCI	
9.	District GDP/Annual Income	
10.	Poverty Rate	
11.	Patient/Doctor Ratio	15000/1
12.	AMR	
13.	IMR	62
14.	MMR	227
15.	Literacy Rate	60
16.	Global Acute Malnutrition (GAM) rate	
17.	Severe Acute Malnutrition (SAM) rate	
18.	Percentage of population having access to clean drinking water	
19.	Annual Crime	38250

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Population

Total	Male	Female
4745109	2437412	2307504

Source/Note: http://www.pbs.gov.pk/sites/default/files//DISTRICT_WISE_CENSUS_RESULTS_CENSUS_2017.pdf

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
760858	372900	388037

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Area (in acres) 935891

Literacy Rate

Total Area of District in Km ²	Area under cultivation		Cultivation in Settled Area		Cultivation in Baid Area	
3721	759766		759766		117697	
Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
60%	12.7%	8.1%	54%	32%	65.9%	40.5%

Source/Note: DO Literacy Office.

Government Schools

Private Schools

		Schools		Enrollment				Schools		Enrollment	
Total/ Overall		1391	341092			Total/ Overall		1417	405764		
Boys	Primary	356	82312			Boys	Primary	31	18910		
	Middle	102	38689				Middle	517	180800		
	High	109	68525				High	179	16112		
Girls	Primary	647	76445			Girls	Primary	13	5230		
	Middle	112	56864				Middle	428	151200		
	High	65	18257				High	249	33512		
Co-Education	Primary	0	0			Co-Education	Primary	0	0		
	Middle	0	0				Middle	0	0		
	High	0	0				High	0	0		
Special Education						Special Education					

Source. schoolportal.punjab.gov.pk/sed_census/new_emis_details.aspx?distid=361--Multan

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	22	5	1	8	4	40
No of Students	33387	79,216	416	11586	2756	127361

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	157	5	01		
Annual OPDs	226349	874586	1566756		
No of beds	470	310	1200		
Doctors Available	236	126	377		
Paramedical staff	947	192	234		
Ambulances available	54	14	08		
Mobile Medical Units					

Livestock: Small Animals (goats, sheep etc.): 671979 Big Animals (cows, buffalos, camel etc.) 904433

Main source of livelihood of the community? (in percentage)

Agriculture	Livestock	Poultry	Fish Farming	Services (Public & Pvt)	Business	Expatriate	Industrial Labor	Skilled Labor	Unskilled Daily Labor	General Labor
40%	10%	1.2%	0.43%	6%	15%	02%	10%	8%	10%	5%

Disaster History - Floods (since 1970)

S#	Year	No. of people affected	No. of deaths	No. of Revenue Estates affected	Houses Damaged (Partially)	Houses Damaged (Fully)	Compensation Paid (Rs.)	Financial Impact (including infrastructure damaged)
1	2010	132113	-	121	4310	7659	-	2010
2	2013	3000	1	111	139	31	3015000	

3	2014	156113	12	121	4866	7960	1838760925	
4	2015	-	-	-	-	-	-	
5	2016	-	-	-	-	-	-	
6	2017	-	-	-	-	-	-	
7	2018	-	-	-	-	-	-	
8	2019	-	-	-	-	-	-	

Disaster History – Other disasters (since 1970)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	2010	Flood	132113	-	
2	2013	Flood	3000	1	
3	2014	Flood	156113	12	
4	2015	-	-	-	
5	2016	-	-	-	
6	2017	-	-	-	-
7	2018	-	-	-	-
8	2019	-	-	-	-

General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Khanewal, Vehari, Lodhran & Muzaffar Garh
Topographical Features	
Weather/Climate pattern	e.g. max. and min. temperature, annual precipitation, storms, heat waves, snow fall etc. Hot throughout the Year
Major Rivers	Name of river, passing through areas along with length in the district Major Barrages and their Flood levels Chanab & Satlaj
Major Nullahs / Streams	Name of river, passing through areas along with length in the district Flood levels 50 Kilometers-River Chanab 8-10 Kilometers-River Satlaj
Motorway/Highway	Vulnerable points of motorway/highway Shershah Road
Railways	Vulnerable points of Railway Multan-Sher Shah Railway Track
Geological features	e.g. fault line, mountainous areas etc. Nil

Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
NIL	NIL	NIL	NIL	NIL	NIL	-

Major Embankments/Bunds

Name of Embankment	Length (km)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/ vulnerable Points	GPS Location of Critical/ Vulnerable Points	Remarks
Chenab flood bund RD.0-157950	48	Chowki Hiraj Kabirwala	Gary Wal Tehsil Multan	RD.90000-98000&150000-157000	X:301922.80 Y: 712620.70	
Akbar flood bund	6	Chak Mahni Multan	Gary Wal Tehsil Multan	RD.6000-11000	X:301632.40 Y: 712447.20	

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		
Sher Shah Railway Flood Bund	Sher Shah Breaching Section	X:300446.00 Y: 711919.70					
Head Muhammad Wala	Approach Road Head Muhammad Wala	X:301710.30 Y: 712303.40					
		X: Y:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
Sher Shah Oil Depot	-	X: 30.099660 Y: 71.341958	Industrial Estate	132 Kv	X: Y:

Airport / Landing Strips

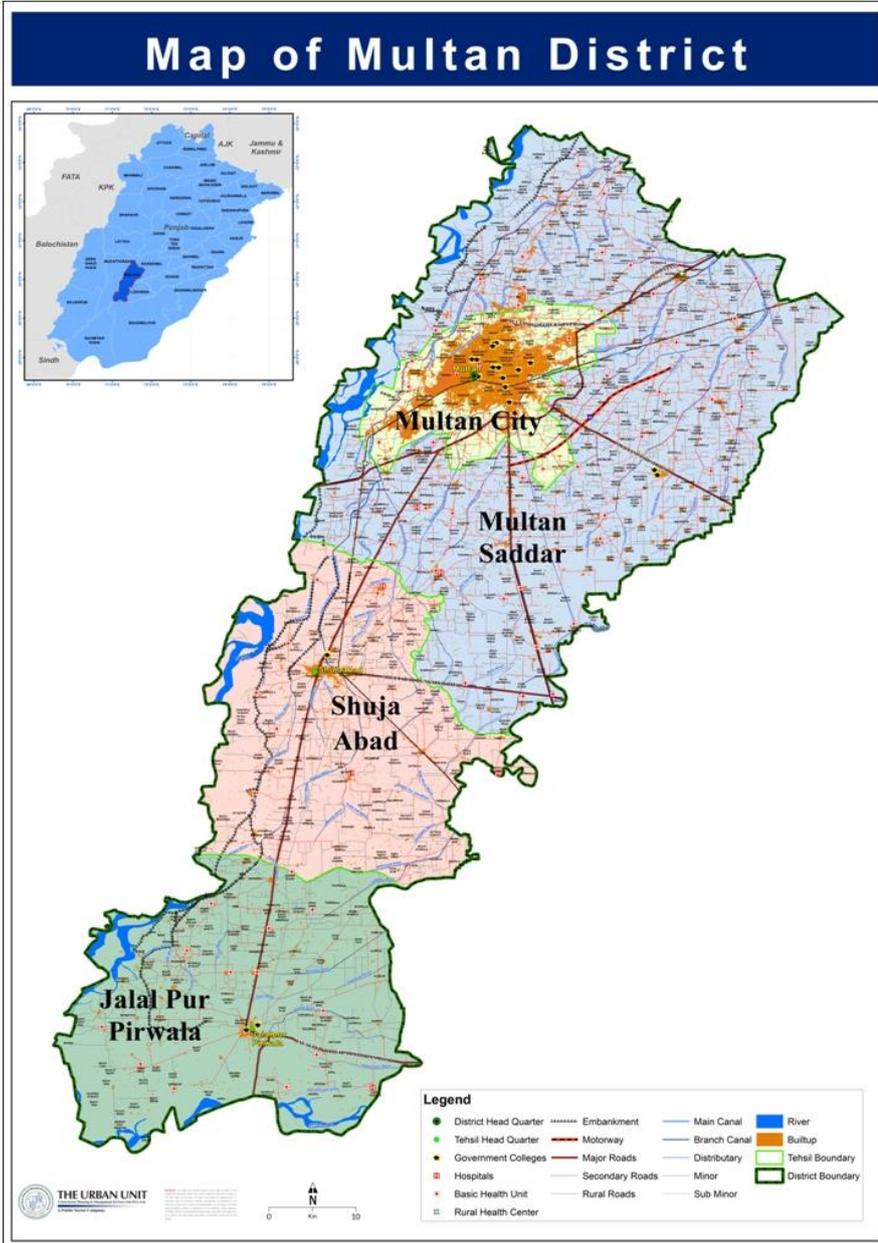
Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
Multan International Airport	Multan Cantt	X:30.114707 Y: 71.252656			X: Y:

Govt. storage facilities/warehouses in the district

Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
NIL	NIL	NIL			

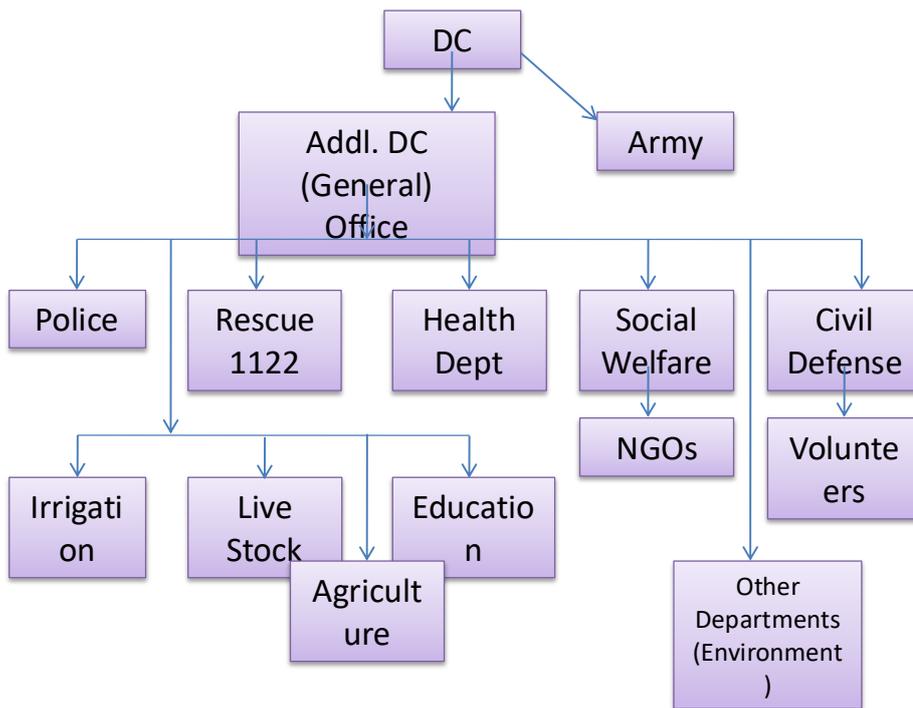
District baseline/reference map

Source:



COORDINATION MECHANISM

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



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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

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

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

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

Checklist for Revenue Department:

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

Tehsil / Town Municipal Administration (TMA)

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

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

District Disaster Management Authority (DDMA)

- DDMA's are created under the NDM Act 2010 under Chapter IV Section 18 and the law defines their composition and also outlines their functions, duties and powers.
- District Disaster Management Authorities are the first line of defense and the implementing arm of the government policy and plans. Within the district there are three to four key players/departments that have to put up a joint and coordinated effort in order to fight with and handle any disaster under the leadership and coordination of the DC. The office of the DC fully supported by the CPO 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:
 - Deputy Commissioner (Chairperson)**
 - Mayor of Municipal Corporation
 - Chairman District Council
 - City Police Officer
 - Two Elected Representatives to be nominated by the Chair
 - Representative of Pak Army
 - Two Representatives of NGOs/Civil Society to be nominated by the Chair
 - Chief Executive Officer (Health)
 - Chief Executive Officer (Education)

- x. Additional Director Livestock
- xi. Deputy Director Agriculture (Extension)
- xii. District Food Controller
- xiii. SP/DSP Special Branch
- xiv. Executive Engineer, Irrigation
- xv. Executive Engineer, Public Health
- xvi. Executive Engineer, Highways
- xvii. Executive Engineer, Buildings
- xviii. District Emergency Officer, Rescue 1122 (Secretary)
- xix. Representative of Red Crescent
- xx. All Chief Officers Municipal Corporation/committees/District Council
- xxi. Federal Government Officers which the DDMA's decide to co-op as per powers delegated under section 20 & 22 of NDM Act 2010.

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

Role of Rescue 1122 in districts during disaster

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

Pre-disaster Check list for DDMA

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

Disaster Emergency Control Room (functions and responsibilities)

- Organization of Flood Control
- Deputy Commissioner
- Control Room
- Additional Deputy Commissioner (R)
- Sectors
- Sector 1 Sector 2 Sector 3 Sector 4
- City Saddar Shujabad Jalalpur Pirwala
- AC office AC Office AC Office AC Office
- District Flood Control Room in the office of Deputy Commissioner Office will be established.
- Comprehensive district level stake holders meetings are conducted to enhance liaison between irrigation, Revenue, Rescue 1122, Health, Municipal Corporation, District Council, Municipal Committees, Civil Defence, Agriculture, Livestock, etc.
- Mock search and rescue exercises to enable staff of the district and tehsil administrations have been planned. District Emergency Officer, Rescue 1122 Multan will conduct the training programmes.
- A list of important telephone numbers/available machinery within district has been prepared.

Checklist for Control Room:

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

Checklist for Relief Camp Incharge:

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

Role of Health Department

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

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

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

- To provide first aid to the injured people and arrange evacuation of patients for further assistance.
- Medical camps and mobile health teams should be arranged for prevention and control of communicable diseases, immunization and provision of essential drugs.
- Health department would make a roster of all medical officers and paramedics that would be deployed to these camps and teams.
- Drugs and other medical equipment should be available at all these camps and with mobile teams. The medicine should be for relevant flood related issues, **particularly Anti-snake venom, Anti-rabies.**
- The shelters or relief camps established by the district administration should have medical 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.

Role of Rescue 1122 Multan

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.
-

Civil-Military Coordination Mechanism

To meet the flood situation successfully, Army shall be deployed along banks of River Chanab upon formal requisition of by the DC on request of District Emergency Officer, Rescue 1122, Rawalpindi 02 Army Units are likely to be deployed for relief operation in case of any emergency; Army will establish Control Center at Headquarters 111 Independent Infantry Brigade, Westridge Multan. This Center will assist the Civilian Authorities in relief operations and restoration of services in the areas of emergency.

Volunteer Network

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

There are 210 volunteers registered with the Civil Defense. Civil Defence Officer remains continuous in touch with the volunteer by means of their participation in different training programs conducted for their capacity buildings and in different events (National & International). In case of disaster already designated Team Leader is contacted first, who subsequently disseminate the same information to all team members for coordinated response.

RISK ANALYSIS

1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods	3	4	12
Urban Flooding	2	3	6
Flash Floods	2	2	4
Hill Torrent	-	-	-
Glacial Lake Outburst Flood (GLOF)	-	-	-
Landslide	-	-	-
Tornado	-	-	-
Earthquake	2	2	4
Drought	2	2	4
Epidemic	2	2	4
Fire Incidents	4	4	16
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	5	4	20
Environmental Hazards (industrial accidents, severe pollution etc.)	3	3	9

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*

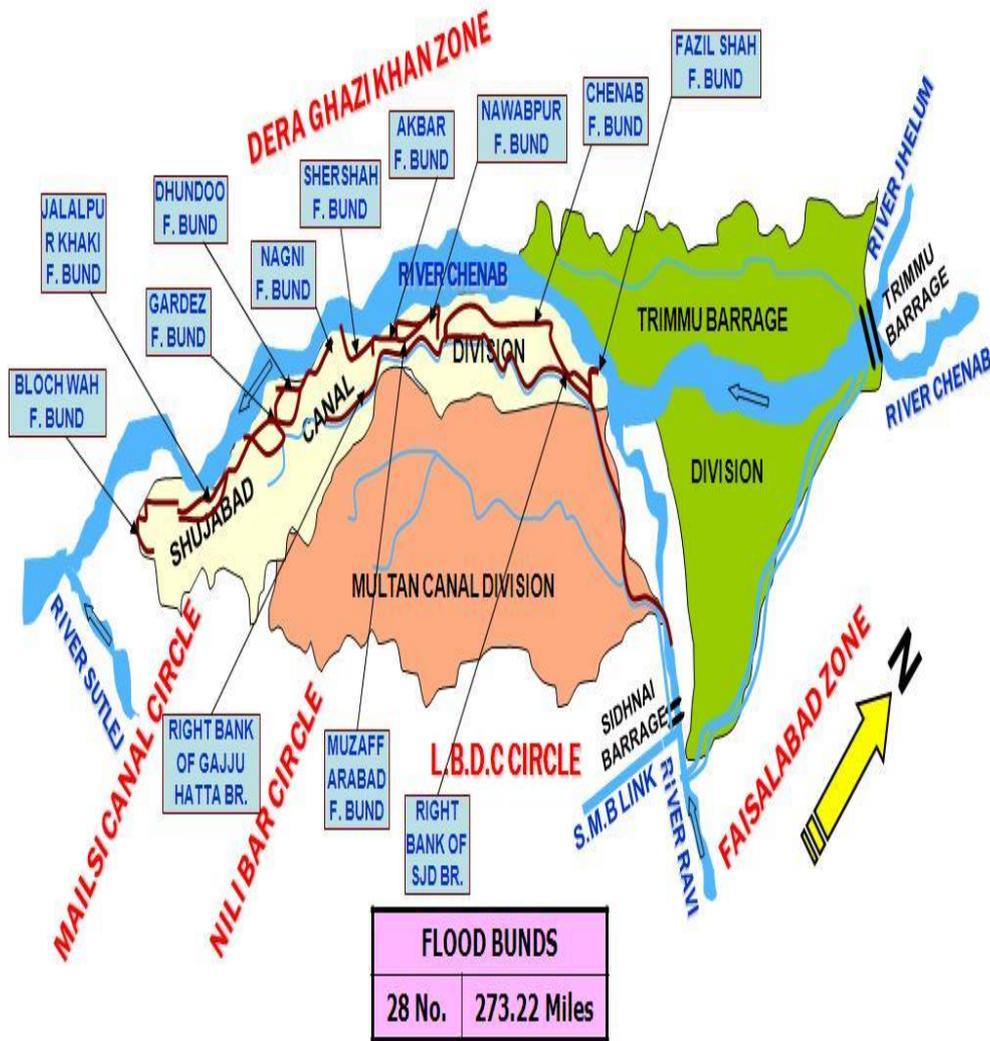
- Experience has shown that abnormal heavy rains in catchment areas result in flash floods in in the city of Multan caused damages in 2001, 2010, 2011, 2012, 2014 and 2015. Though the flood water recedes within a period of 3-8 hours, it causes considerable damage in the city area. Local drains from Old Multan City like, Ghanta Ghar, Bohar and Haram Gates and Cantonment area also fall in it which further aggravates the situation, especially when these drains cannot find their way into Nullah which is already in flood, causing inundation of surrounding low lying areas (back water effect).

Flash Flood urban flood due to heavy monsoon rains is being planned every year for medium and high risk. The potential sites/vulnerable areas have been pointed out across the board.

Mainly heavy rainfall during monsoon season is the main triggering factor for urban flash flooding along with contributing factors of throwing of garbage in the main stream as well as in tributaries of nearby vulnerable areas.

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

Source:



3. Response & Operational Capacity

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

District Government has the following response capacities.

1. District Management
2. Municipal Corporation Multan
3. District Council Multan.
4. Municipal Committees
2. Rescue 1122
3. Monitoring Control System (in control of Rescue 1122)
4. 6 Rain fall Gages (in control of PMD)
5. 10 Warning posts for blowing sirens (in control of Rescue 1122)
6. Water level gauges (PMD)
7. Master Control Room (PMD)
8. Water and Sanitation Agency (WASA)
9. Multan Waste Management Company

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	33	33	0	0
OBM	33	33	0	0
De-watering sets	87	82	5	50
Navigators	0	0	0	0
GIS devices	0	0	0	0
Life Jackets	490	490	0	200
Life Ring	222	222	0	0
Life Lines	10	10	10	50
Scuba diving suit with complete accessories	06	06	0	02
First Aid Kits	50	50	0	100
Rescue Bag	50	50	0	50
Safety Harnesses	7	6	1	10
Ambulances	27	27	2	0
Fire Brigade	15	15	1	4
Water Tanks / Bouzers	2	2	0	2
Extendable Ladders	10	10	0	10
Hydraulic Cutter	1	1	0	3
Sonar Rader	0	0	0	5
Jumping Sheet	0	0	0	20
Dumpers	22	21	01	2
Excavators	3	3	0	1
Cranes	2	2	0	1
Bulldozer	8	8	0	1
Boat Carrier/Trolleys	6	6	0	02
Pickups/Jeeps/4x4 vehicles/Mini Trucks	6	5	1	0
Searchlight	95	95	0	100
Tent	1699	1699	0	400
Mosquito Net	700	500	200	500
Plastic Mat	975	975	0	525
Blanket	0	0	0	1000
Any other main relief/rescue equipment				5
Generator Sets	01	01	0	05
Gas-Cutters	01	01	01	05
Sonar Radars				5
Scuba Diving Set	06	06	0	14
Navigator/GPS Tracker	33	33	0	05
Hydraulic Cutter	01	01	01	03
Floating Rope	50	50	0	50

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.)*
- There is dire need for capacity building of Rescue 1122 staff in terms of training and equipment provision. The PDMA should take lead role in above mentioned activities. Small inflatable Boats (10 Nos) and SCUBA diving sets may be provided on immediate basis.

MITIGATION STRATEGY

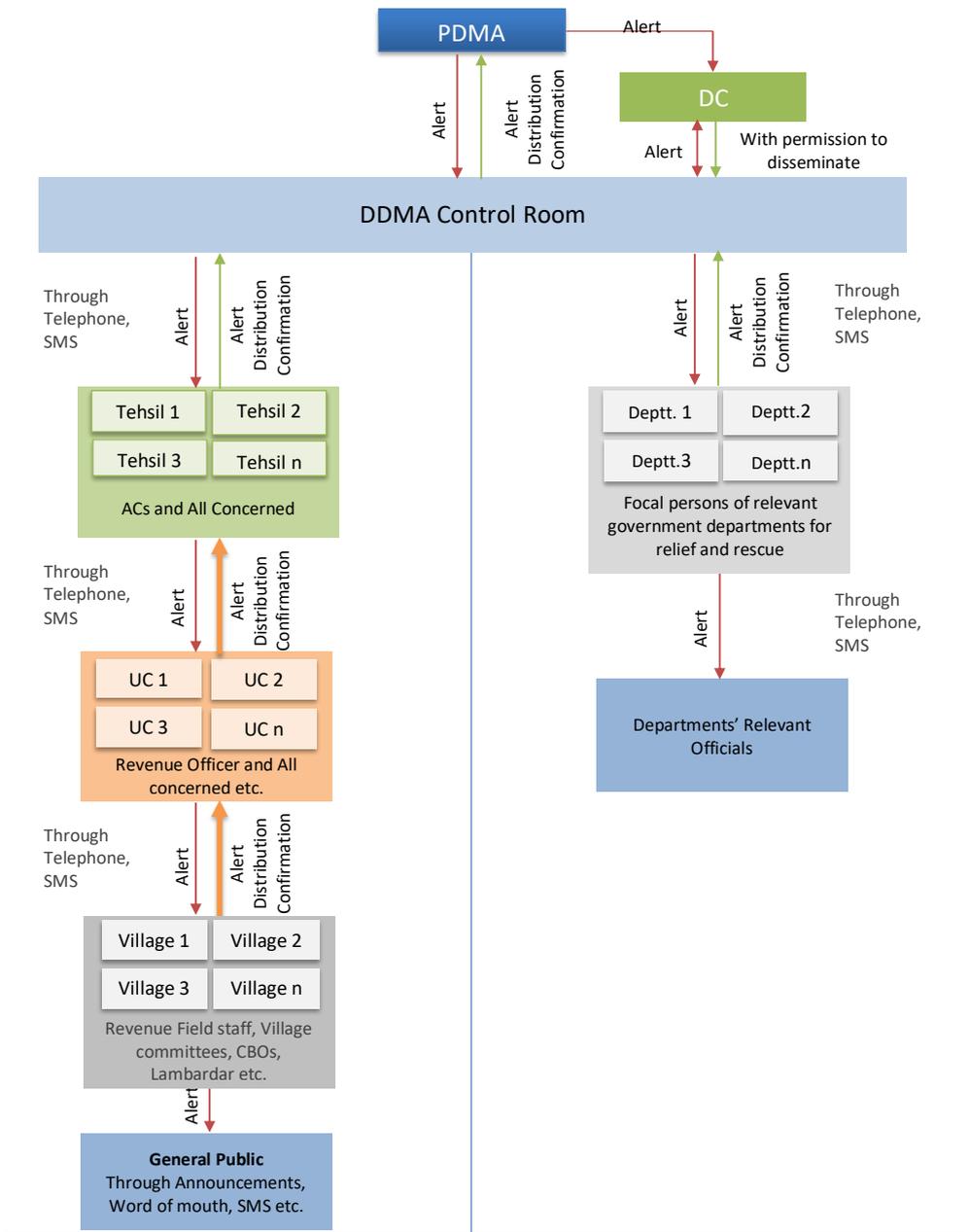
- ✓ Briefly describe what measure could be taken to reduce the impact of the potential disasters.
- ✓ Strategic pre-positioning of available relief stocks
- ✓ Public education and community awareness

Hazards	Mitigate Actions	Responsible Department
Floods	<p>Pre-Flood To ensure veterinary coverage, prophylactic vaccination to each animal/poultry bird and to adopt appropriate measure to check any epidemic or endemic outbreak during flood, including any contagious dilemma. Pre flood vaccination campaign will start wef 15-05-2018 to 14-06-2018. The prompt reporting system will be ensured to convey higher authorities of District. 30% quota of the medicines as per policy guidelines of L&DD Department has been earmarked and required specification of different types of medicines.</p> <p>An awareness campaign regarding different measures to meet the flood situation i.e. River Chanab and its tributaries, details of low lying areas, Flood Forecasting and Warning System, Hazards Map, Detail of Flood Relief Centers/ Evacuation Centers, Evacuation Procedure and other preventive and precautionary measures etc. has been scheduled.</p> <p>A Flood evacuation drill/Mock exercise shall be conducted under the supervision of Deputy Commissioner Multan with the collaboration of District Line Departments before monsoon season.</p>	<p>Rescue 1122 WASA MWMC Civil Defence Health Education Police Army Other district departments</p>
Urban Flooding	<p>Dewatering of rainy water Drainage of rainy water</p>	<p>MD WASA Municipal Corporation District Council Municipal Committees Rescue 1122</p>
Earthquake	<p>Evacuation, relief camps, food, shelter, rehabilitation</p>	<p>Rescue 1122 WASA MWMC Civil Defence Health Education Police Army</p>

		All other district line Departments
Other Major Accidents (Building Collapse, fire, road traffic accidents, train accident, Stampede, plane crash)	Evacuation, emergency response, shifting of patient to hospitals,	Rescue 1122 City Fire Brigade WASA MWMC Civil Defence Health Education Police Army All other district line Departments
Environmental Hazards (industrial accidents, severe pollution etc.)		Rescue 1122 Environment Department City Fire Brigade WASA MWMC Civil Defence Health Education Police Army All other district line Departments

EARLY WARNING

Information Flow Diagram



Alertness Levels

Following four levels alertness have been established:

<p>Level-D (Disaster threat is perceptible)</p>	<p>DDMA shall conduct monthly meetings besides atleast 2 mock exercises as per DDMP, well in time, to make the concerned officers/officials understand their role and responsibility for better coordination and testing of rescue and relief equipment. DDMA shall also ensure the physical presence of concerned staff deputed and availability of equipment/resources for all designated vulnerable sites within given time frame during disaster. Vulnerable site's inspections and necessary works/action shall be carried out as mitigation measures.</p>
<p>Level-C (Alert) (Warning issued but likelihood of occurrence is less than 100%)</p>	<p>Activities to be undertaken in level D + DDMA shall issue "alert" to all concerned for the vulnerable area. DDMA and LDMA (tehsil level) control rooms be made operational 24/7 and ensure availability of all required (available and additional) resources for on call mobilization and monitor the situation 6 hourly. Only DCO and DPO shall grant leave according to the situation.</p>
<p>Level-B (High Alert) (Disaster threat is imminent)</p>	<p>Activities to be undertaken in level C + DDMA shall issue EW to all stakeholders and "High Alert" for the district to ensure that all additional HR and material resources including volunteers has reported to their assigned duties, and all resources for evacuation and disaster management have been mobilized as per DDMP. All emergency (health, fire, rescue 1122, TMA etc) facilities shall work 24/7 with full staff strength. DDMA shall monitor the situation on hourly basis.</p>
<p>Level-A (Red Alert) (Disaster is materialized)</p>	<p>Activities to be undertaken in level B + DDMA shall respond to the emergency immediately and shall carry out rescue and relief operation as defined in DDMP and shall continuously monitor the situation. Resources of adjoining districts shall be mobilized and Army may be called keeping in view the magnitude of the disaster.</p>

Early Warning

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

Who is the focal person at district level?

Functions of District/Tehsil Emergency Control Rooms in early warning

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

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

Flood Forecasting and Early Warning System

Flood Forecasting and Early Warning System should be announced by Irrigation Department, Patwaris and through announcement in loud speakers of masajid. Master control Room which is controlled by Met office issues forecast information to Flood Control Room. Rescue 1122 is looking after Flood control Room and that disseminate area on alerts to residents living in vulnerable areas.

District Emergency Control Room disseminates immunity flood information to residents of low lying areas by blowing risers which are installed along River Chanab. District Control Room also plays role coordination & Communication along all stakeholders.

After receiving information of pre alert through District Flood control Room, all the relevant stakeholders are part on high alert and their team start deployment in highly vulnerable low lying areas.

DISASTER PREVENTION CONTROL CENTRE (DPCC)

A Central Flood Control Centre has been established at DC Office building, under the command of Deputy Commissioner & with the assistance of District Emergency Officer, Rescue 1122. This Control Room shall be the source of dissemination of information to the concerned departments and will also act as Operation Centre for coordinating all response activities. All the concerned departments / emergency service

RESCUE STRATEGY

The flood control measures described in this plan shall be put into effect on receipt of Pre-Alert Warning Phase. The entire administrative set up i.e. Machinery, Equipment, and staff of the District Administration shall be immediately mobilized along banks of River Chanab.

HUMANITARIAN ASSISTANCE

- *How damage and losses data will be collected and communicated to higher level?*
- *How the priority needs (e.g. food, shelter, health etc.) will be determined?*
- *What activities will be carried-out to provide assistance to the affected population and by whom?*
- *What assistance will be provided?*
- *Standardization of different packages/kits e.g. food, tents*
- *Humanitarian Assistance monitoring mechanism – to avoid duplication and identify gaps*
- *Minimum standards for camps, if camps are established*
- *What is the current capacity in the district? Enough for how much caseload?*
- *Explain how protection, gender and age, environment and other relevant cross-cutting issues that will be addressed or mainstreamed into the humanitarian assistance strategy*

Damages and loss data due to flash flooding and river flooding shall be collected from concerned Assistant Commissioners, and communicated to Additional Deputy Commissioner (R), Multan, which is then forwarded to Deputy Commissioner, Multan for onward of submission to Board of Revenue Punjab.

The Priority needs of affected people flood and earthquake (food, shelter, health etc.) is determined by taking recommendations from concerned stakeholders like Health Department, Education Department, Rescue 1122, Civil Defence, Building Department and Revenue Department of Multan.

The affected population due to flood or earthquake shall be shifted to the designated relief camps by Rescue 1122, Civil Defense and Volunteers.

Food and Health assistance will be provided by the Revenue Department and Health Department. Similarly the need of rehabilitation of affected victims is assessed and evaluated by these.

PDMA has already issued the standardization of different packages/kits for food and tentage needs of affected victims. Whole of the activity regarding humanitarian assistance and monitoring is supervised by Additional District Collector in consultation with all relevant stakeholders in order to avoid duplication of resources and identification of gaps.

All the affected victims of are shifted to the already designated relief camps in school. No separate camps are established as the flood emergency in Multan is of flash flood nature.

Multan District has sufficient capacity in terms of provision of food , shelter, medicine to cater maximum number of victims for more than even three months' time

As for as humanitarian strategy regarding protection, gender, age, environment and other cross cutting issues or concerned , the administration of Multan has taken diligent steps which are as follows:

- a. Issuance of early warning by Rescue 1122, Multan.
- b. Rescue and Shifting of Victims to hospitals and Relief Camps by Rescue 1122 and Civil Defense Volunteers.
- c. Establishment of relief camps in predestinated schools and relief camps established by District Administration.
- d. Humanitarian assistance of the victims by involving Health, Education and Revenue Department.
- e. Foolproof coordination and communication among all stakeholders through pre-alert warning issued by Rescue 1122.

ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

S#	Location	No. Of Persons Which Can Be Accommodated	Gps Coordinates	S#	Location	No. Of Persons Which Can Be Accommodated	Gps Coordinates
1	Govt. Primary School Ghaloo	900	30.373501, 71.483327	13	Government Girls Middle School Khan Pur Qazian	800	29.993126, 71.266751
2	Basti Band Bosan	1000	30.375659, 71.528418	14	1. Government Boys Primary School Tahir Pur Near Bagi Pull 2. Government Boys High School Ponta (Covering Building)	1000	29.899034, 71.264711
3	Mouza Lutaf Abad Near Basti Wigan Wali	500	30.346235, 71.489916	15	BHU-- Marrah	800	29.882127, 71.229238
4	Chanab Chowk	800	30.299392, 71.450326	16	Office U/C Gardaiz Pur Basti Nawan Sher	1000	29.888000, 71.220068
5	Akbar Pur Flood Band	800	30.389640, 71.531557	17	Middle School Begrian	1000	29.776498, 71.240860
6	Sher Shah	1000	30.096357, 71.345238	18	Govt. Boys High School Jalal Pur Khakhi	1000	29.752849, 71.228045
7	Basti Buch Near Railway Station	1000	30.062565, 71.284028	19	Canal Rest House Behli Shareef	1000	29.649122, 71.170930
8	Jalalabad Band	1000	30.140964, 71.339687	20	H/S Khan Bela	1000	29.462419, 71.107448
9	Thatti Khahawaran Flood Band	1000	30.169304, 71.356739	21	Govt. P/S Basti Bharan	800	29.515976, 71.124314
10	Muhammad Pur Ghotta Flood Band	1000	30.246839, 71.447664	22	Govt. Boys High School Jalalpur Pirwala	800	29.548442, 71.144626
11	BHU Qasim Bela	1000	30.193106, 71.400240	23	Boys P/S Gujj	800	-
12	Langrial Shujabad Canal Bridge	800	-	24	H/S Bahadar Pur	1000	-

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

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Flood	City	05	<ol style="list-style-type: none"> 1. Jalal Abad 2. Jhakar Pur 3. Thathi Khawaran 4. Tibba Masood Pur 5. Khair Pur 6. Muhammad Pur Ghota 7. Arjwain Sharif 8. Khor Sajri Wahin 9. Langriyal 10. Jalil Pur 11. Alamdi Sura 	
	Saddar	06	<ol style="list-style-type: none"> 1. Nawabpur 2. Lutafabad 3. Jhok Sarkari 4. Jhok Chhajtra 5. Vialan 6. Chak Mahni 7. Anayatpur Mahoota 8. Jhok Arbi 9. Amirpue Sahu 10. Bahawalpur Khara 11. Khizanpur 12. Nawabpur Doim 13. Nawabpur Awal 14. Buch Khusrubad 15. Buch Mubarak 16. Taj Pur Sandila 17. Raan Labay Darya 18. Jhok Wains Parli 19. Sarwani Bela 20. Sambhu Ghallu 21. Nauranabad 22. Zamanpur 23. Tajpur Sandila 24. Hamroot 25. Garaywala 26. Baqirabad Khakwani 27. Binda Malana 28. Akbarpur 29. Dhudi 30. Binda Sandila 31. Ambala 32. Hamid pur 33. Hamid Pur Tharali 34. Sandila 35. Vilan 36. Wandharh 	

			37. Maikan Wala 38. Lashkar Pur 39. Bahali Khaira 40. Sher Shah 41. Bakhri 42. Hamidpur 43. Said Ali Pur 44. Raja Pur 45. Buch 46. Sultanpur Hammar 47. Abbu Hatta 48. Jhok Lakhshmi 49. Jamhoor 50. Taj Pur Thameera 51. Shakar Bela 52. Mirzan Pur 53. Bakhir 54. Kachoor	
	Shujabad	06	1. Jai 2. Khan pur Qazian 3. Soman 4. Khair Pur 5. Ponta 6. Tahir Pur 7. Mochi Pura 8. Sher Pur 9. Fateh Bela 10. Bagrreen 11. Choty 12. Ghuons Pur 13. Bhana 14. Aman Ullah Pur 15. Gardeez Pur 16. Sheikh Pur Drig 17. Dhundhoon 18. Marraha 19. Agar Khani 20. Waince 21. Jalal Pur Khakhi 22. Seery 23. Khas Panjani 24. Thath Makhdum Pur 25. Taroor Jalal Pur 26. Panjani	
	Jalalpur Pirwala	09	1. Khakhi Ponta 2. Ripri 3. Taror Manik Wali 4. Shah Pur Lamma 5. Jang Walla 6. Manik Wali 7. Chak Moulvi Atta 8. Narool 9. Bait Katch Shumali 10. Bait Katch Janubi	

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	BHU Jhoke Vains	X: 30.40 Y: 71.56	Primary	Dr. Shamir Ahmed 03017464340	Flood
2	RD Bosan	X: 30.22 Y: 71.31	Primary	Dr. Muhammad Faizan Ellahi 03336103373	Flood
3	BHU Lutfabad	X: 30.18 Y: 71.30	Primary	Dr. Irfan Khan Mazari 03336103020	Flood
4	BHU Nawab Pur	X: 30.17 Y: 71.27	Primary	Nazir Ahmad M.A 03337675240	Flood
5	BHU Binda Sandila	X: 30.13 Y: 71.25	Primary	Dr. Safia Ehsan Khan 03316225541	Flood
6	BHU Tibbas Masood Pur	X: 30.10 Y: 71.23	Primary	Dr. Muhammad Azhar 03017457065	Flood
7	BHU Qasim Bela	X: 30.12 Y: 71.23	Primary	Dr Sadia Anjum 03360787968	Flood
8	BHU Muzaffarabad	X: 30.07 Y: 71.21	Primary	Dr. Samia Nosheen 03146866869	Flood
9	RHC Sher Shah	X: 30.05 Y: 71.20	Primary	Dr. Ghulam Yasin Sabir 03006307847	Flood
10	BHU Khan Pur Qazi	X: 29.58 Y: 71.17	Primary	Dr. Zulqamain Qureshi 03317037670	Flood
11	BHU Pounta	X: 29.53 Y: 71.15	Primary	Dr. Qurat Ul Ain Ayyaz 03357925066	Flood
12	BHU Mahra	X: 29.51 Y: 71.13	Primary	Dr. Arshad Mahmood 03216349153	Flood
13	BHU Gardaiz Pur	X: 29.48 Y: 71.16	Primary	Dr. Muhammad Ishaq Qamar 03336243351	Flood
14	BHU Jalalpur Khaki	X: 29.45 Y: 71.13	Primary	Dr. Muhammad Bilal Tahir 03336640158	Flood
15	BHU Punjani	X: 29.42 Y: 71.12	Primary	Dr M. Yousaf 03346988059	Flood
16	BHU Jahan Pur	X: 29.38 Y: 71.11	Primary	Khawaja Abdul Samee Mt 03017532819	Flood
17	BHU Behli Shareef	X: 29.35 Y: 71.10	Primary	Dr. Kamran Abid 03338566216	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.)
18	BHU Inayat Pur	X: 29.43 Y: 71.03	Primary	Dr. Rauf Malik Bhutta 03083388166	Flood
19	BHU Bait Kaitch	X: 29.29 Y: 71.06	Primary	Dr. Muhammad Majid Ali 03017975900	Flood
20	BHU Khan Bela	X: 29.28 Y: 71.06	Primary	Dr. Muhammad Usman Zafar 03326069332	Flood
21	BHU Durab Pur	X: 29.44 Y: 71.14	Primary	Dr. Muhammad Asif Manzoor 03445854007	Flood
22	BHU Khokran	X: 30.00 Y: 71.10	Primary	Dr. Sheryaar Khand 03317038482	Flood
23	RHC Meeran Mallan	X: 29.36 Y: 71.10	Primary	Dr Arshad Hussain 03006337794	Flood
24	BHU Chajju Shah	X: 29.55 Y: 71.17	Primary	Iqbal Hussain Disp 03467116428	Flood
25	BHU Nouraja Bhutta	X: 29.25 Y: 71.13	Primary	Dr. Zulfaqar Mehdi 03006388281	Flood
26	BHU Bahadar Pur	X: 29.29 Y: 71.17	Primary	Dr. Mubashir Jalal 03007788567	Flood

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	Govt. P/S, Khizan Pur, Markaz Bosan, Multan	School	X: 30.3733617067337 Y: 71.4833539724349	133	MULTAN SADDAR	LOCATED IN FLOOD AREA.
2	Govt. P/S, Serwani Bela, Markaz Bosan Multan	School	X: 30.41136005 Y: 71.52695887	122	MULTAN SADDAR	LOCATED IN FLOOD AREA.
3	Govt. P/S, Toroy Pur, Markaz Bosan Multan	School	X: 30.40999231 Y: 71.536751	105	MULTAN SADDAR	LOCATED IN FLOOD AREA.
4	Govt. MPS, Jhoke Arbi, (GGPS DHILOO WALA Markaz Bosan Multan	School	X: 30.38238604 Y: 71.50746347	25	MULTAN SADDAR	LOCATED IN FLOOD AREA.
5	Govt. Model P/S, Hamid Pur, Markaz Sher Shah Multan.	School	X: 30.1699514 Y: 71.31298547	48	MULTAN SADDAR	LOCATED IN FLOOD AREA.
6	Govt. P/S, Said Ali Pur, Markaz Sher Shah, Multan.	School	X: 30.189893245697 Y: 71.3227325677871	HAND OVER PEF.	MULTAN SADDAR	LOCATED IN FLOOD AREA.
7	Govt. P/S, Bakhsh Wala, Markaz Sher Shah, Multan	School	X: 30.22333288 Y: 71.41000985	240	MULTAN SADDAR	LOCATED IN FLOOD AREA.
8	Govt. P/S, Hamroot, Markaz Sher Shah, Multan	School	X: 30.20708126 Y: 71.38568592	116	MULTAN SADDAR	LOCATED IN FLOOD AREA.
9	Govt. MPS, Bhakri Markaz Sher Shah, Multan	School	X: 30.1538282632827 Y: 71.3561046123504	144	MULTAN SADDAR	LOCATED IN FLOOD AREA.
10	Govt. P/S, Purana Sher Shah, Multan	School	X: 30.0915205478668 Y: 71.3170677423477	201	MULTAN SADDAR	VULNERABLE SCHOOL.
11	Govt. PS, Raja Pur, Multan	School	X: 30.11932876 Y: 71.33528529	206	MULTAN SADDAR	LOCATED IN FLOOD AREA.

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
12	GGES, Thati Khawaran	School	X: 30.15424995 Y: 71.36531766	304	MULTAN CITY	LOCATED IN FLOOD AREA.
13	GGES, Basti Khairoo	School	X: 30.16058846 Y: 71.37515958	350	MULTAN CITY	LOCATED IN FLOOD AREA.
14	GGES, Jalalabad	School	X: 30.1370215415954 Y: 71.3501071929931	230	MULTAN CITY	LOCATED IN FLOOD AREA.
15	GGPS, Jhakar Pur	School	X: 30.14336653 Y: 71.36289836	48	MULTAN CITY	LOCATED IN FLOOD AREA.
16	GGPS, Garay Wala	School	X: 30.25610497 Y: 71.42988073	66	MULTAN SADDAR	LOCATED IN FLOOD AREA.
17	GGPS, Nasir Khan Khakwani	School	X: 30.25381207 Y: 71.42195879	78	MULTAN SADDAR	VULNERABLE SCHOOL.
18	GGPS, Khaji Wala,	School	X: 30.2277014 Y: 71.42175368	HAND OVER PEF.	MULTAN SADDAR	VULNERABLE SCHOOL.
19	GGPS, Mehdi Pur	School	X: 30.09435776 Y: 71.33334793	139	MULTAN SADDAR	LOCATED IN FLOOD AREA.
20	GGPS, Jinnah Abadi	School	X: 30.1258657 Y: 71.33969124	124	MULTAN SADDAR	LOCATED IN FLOOD AREA.
21	GMPS, Sairy Wala	School	X: 30.04934365 Y: 71.32361357	125	MULTAN SADDAR	VULNERABLE SCHOOL.
22	GMPS, Gagra Kachoor	School	X: 30.06273267 Y: 71.30875608	99	MULTAN SADDAR	VULNERABLE SCHOOL.
23	GPS, Mirza Pur	School	X: 30.01968767 Y: 71.29717399	157	MULTAN SADDAR	VULNERABLE SCHOOL.
24	GHS, Sanbhal	School	X: 30.43538186 Y: 71.54209346	529	MULTAN SADDAR	LOCATED IN FLOOD AREA.
25	GGHS, Binda Sandeela	School	X: 30.2399110794067 Y: 71.4231222867965	627	MULTAN SADDAR	VULNERABLE SCHOOL.
26	GGPS BASTI JAMHOOR	School	X: 30.03574136 Y: 71.30214952	40	MULTAN SADDAR	LOCATED IN FLOOD AREA.
27	GGPS Chah yar Muhammad Wala	School	X: 30.02285202 Y: 71.31194323	75	MULTAN SADDAR	LOCATED IN FLOOD AREA.
28	GGES Wacha Sandila	School	X: 29.56184683 Y: 71.09273484	198	JALALPUR PIRWALA	LOCATED IN FLOOD AREA.
29	GGPS Ripri	School	X: 29.61815163 Y: 71.14176758	89	JALALPUR PIRWALA	LOCATED IN FLOOD AREA.
30	GGPS Zahra	School	X: 29.60491352 Y: 71.14101595	100	JALALPUR	LOCATED IN FLOOD AREA.

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
31	GGPS Bakhsha	School	X: 29.55163968 Y: 71.09258053	72	PIRWALA	LOCATED IN FLOOD AREA.
32	GGES Darkhan Wala	School	X: 29.54043035 Y: 71.10028722	236	JALALPUR	LOCATED IN FLOOD AREA.
33	GGPS Jhangi Ahmad Khan	School	X: 29.53572599 Y: 71.08049959	82	PIRWALA	LOCATED IN FLOOD AREA.
34	GGPS Basti Kamal	School	X: 29.524121 Y: 71.08147394	135	JALALPUR	LOCATED IN FLOOD AREA.
35	GGPS Tharoo Wali	School	X: 29.51879351 Y: 71.10037212	90	PIRWALA	LOCATED IN FLOOD AREA.
36	GGPS Lar Janubi	School	X: 29.52052863 Y: 71.06510299	80	JALALPUR	LOCATED IN FLOOD AREA.
37	GGPS Saif Ullah Baloch	School	X: 29.47406008 Y: 71.06776589	38	PIRWALA	LOCATED IN FLOOD AREA.
38	GGES Dewala	School	X: 29.46527359 Y: 71.07530811	135	JALALPUR	LOCATED IN FLOOD AREA.
39	GGHS Khan Bela	School	X: 29.4671720266342 Y: 71.113611459732	734	PIRWALA	LOCATED IN FLOOD AREA.
40	GGPS Jafrain	School	X: 29.4316971302032 Y: 71.1242812871932	46	JALALPUR	LOCATED IN FLOOD AREA.
41	GGES Durab Pur	School	X: 29.44123525 Y: 71.14564383	136	PIRWALA	LOCATED IN FLOOD AREA.
42	GGPS Basti Kachala	School	X: 29.48939018 Y: 71.12222355	146	JALALPUR	LOCATED IN FLOOD AREA.
43	GGPS Hiyat Wala	School	X: 29.48005208 Y: 71.13510007	83	PIRWALA	LOCATED IN FLOOD AREA.
44	GES Bait Mughal	School	X: 29.46361096 Y: 71.07725901	312	JALALPUR	LOCATED IN FLOOD AREA.
45	GMMS Hazoor Bakhsh Dada	School	X: 29.4026380777359 Y: 71.0564804077148	102	PIRWALA	LOCATED IN FLOOD AREA.
46	GPS Baseera	School	X: 29.4318956136703 Y: 71.0635238885879	119	JALALPUR	LOCATED IN FLOOD AREA.
47	GMPS Shehni	School	X: 29.445714354515 Y: 71.0819453001022	183	PIRWALA	LOCATED IN FLOOD AREA.

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
48	GPS Sultan Mehmood Wala	School	X: 29.4860976934432 Y: 71.062284708023	60	JALALPUR	LOCATED IN FLOOD AREA.
49	GPS Nahran Wala	School	X: 29.4904374 Y: 71.03814365	80	PIRWALA	LOCATED IN FLOOD AREA.
50	GMPS Bait Kaitch	School	X: 29.49323431 Y: 71.0777123	174	JALALPUR	LOCATED IN FLOOD AREA.
51	GMPS Natching	School	X: 29.506402015686 Y: 71.075509138107	180	PIRWALA	LOCATED IN FLOOD AREA.
52	GMPS Shamas Abad	School	X: 29.49317974 Y: 71.0897419	166	JALALPUR	LOCATED IN FLOOD AREA.
53	GMPS Din Pur	School	X: 29.50271905 Y: 71.10321876	161	PIRWALA	LOCATED IN FLOOD AREA.
54	GES Faiz Abad	School	X: 29.53929958 Y: 71.10079497	350	JALALPUR	LOCATED IN FLOOD AREA.
55	GES Wachah Sandila	School	X: 29.56184683 Y: 71.09273484	225	PIRWALA	LOCATED IN FLOOD AREA.
56	GMPS Narool	School	X: 29.5425045490264 Y: 71.0738825798034	84	JALALPUR	LOCATED IN FLOOD AREA.
57	GPS Chah Mohammad Ali Wala	School	X: 29.52680925 Y: 71.05234527	258	PIRWALA	LOCATED IN FLOOD AREA.
58	GPS Kot Imam Din	School	X: 29.40501161 Y: 71.08846592	87	JALALPUR	LOCATED IN FLOOD AREA.
59	GMPS Karmon Wali	School	X: 29.47880431 Y: 71.10295118	263	JALALPUR	LOCATED IN FLOOD AREA.
60	GPS Hazoor Bakhsh Kachala	School	X: 29.4858455657958 Y: 71.1369520425796	55	PIRWALA	LOCATED IN FLOOD AREA.
61	GMPS Mohana Sandila	School	X: 29.48201836 Y: 71.16024043	289	JALALPUR	LOCATED IN FLOOD AREA.
62	GMPS Bhuttain	School	X: 29.61800801 Y: 71.14168152	141	PIRWALA	LOCATED IN FLOOD AREA.
63	GMPS Shah Pur Laman	School	X: 29.58551959 Y: 71.10756899	61	JALALPUR	LOCATED IN FLOOD AREA.
64	GPS Tibi Sohrab	School	X: 29.488454 Y: 71.12330756	79	PIRWALA	LOCATED IN FLOOD AREA.

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
65	GPS Manik Wali	School	X: 29.59611078 Y: 71.14454285	118	JALALPUR	LOCATED IN FLOOD AREA.
66	GPS Khakhi Pounta	School	X: 29.58474586 Y: 71.17209171	138	PIRWALA	LOCATED IN FLOOD AREA.
67	GPS Jafrain	School	X: 29.43362244 Y: 71.1184695	70	JALALPUR	LOCATED IN FLOOD AREA.
68	GPS Durab Pur Sharqi	School	X: 29.45438838 Y: 71.11565481	67	PIRWALA	LOCATED IN FLOOD AREA.
69	GES Durab Pur	School	X: 29.44949128 Y: 71.1478251	401	JALALPUR	LOCATED IN FLOOD AREA.
70	GPS Ghafar Abad	School	X: 29.46006431 Y: 71.12938992	109	PIRWALA	LOCATED IN FLOOD AREA.
71	GMMS Zaidan	School	X: 29.41044307 Y: 71.15782724	111	JALALPUR	LOCATED IN FLOOD AREA.
72	GMPS Langar	School	X: 29.44855032 Y: 71.16767773	87	JALALPUR	LOCATED IN FLOOD AREA.
73	GPS Ramzan Wala	School	X: 29.44726691 Y: 71.18655904	165	PIRWALA	LOCATED IN FLOOD AREA.
74	GMPS Sawan	School	X: 29.44842342 Y: 71.19731027	196	JALALPUR	LOCATED IN FLOOD AREA.
75	GMPS Shujat Pur	School	X: 29.47818517 Y: 71.1940006	137	PIRWALA	LOCATED IN FLOOD AREA.
76	GES Bait Qaisar	School	X: 29.57081054 Y: 71.12031906	248	JALALPUR	VULNERABLE SCHOOL.
77	GPS Joia Abad	School	X: 29.3940764665603 Y: 71.3581269979476	102	PIRWALA	LOCATED IN FLOOD AREA.
78	GPS Jam Qasim Wala	School	X: 29.4035553932189 Y: 71.2838459014892	95	JALALPUR	LOCATED IN FLOOD AREA.
79	GPS Jhanda Miani	School	X: 29.41188365 Y: 71.27324726	125	PIRWALA	LOCATED IN FLOOD AREA.
80	GMMS Noshara	School	X: 29.41295411 Y: 71.26068109	90	JALALPUR	LOCATED IN FLOOD AREA.
81	GPS Jhanbhoo	School	X: 29.44117049 Y: 71.29043482	89	PIRWALA	VULNERABLE SCHOOL.
82	GPS Lang Wala	School	X: 29.44108696 Y: 71.30071284	70	JALALPUR	VULNERABLE SCHOOL.
83	GPS Bait Wahi No.2	School	X: 29.43419449 Y: 71.31615067	203	PIRWALA	VULNERABLE SCHOOL.
84	GHS Motha	School	X: 29.4292473 Y: 71.36910481	264	JALALPUR	VULNERABLE SCHOOL.

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
85	GMPS Miani Motha	School	X: 29.40517385 Y: 71.38080617	175	PIRWALA	VULNERABLE SCHOOL.
86	GPS Kotla Shah Rasool	School	X: 29.4346100091934 Y: 71.3389062881469	101	JALALPUR	VULNERABLE SCHOOL.
87	GMPS Guj	School	X: 29.45038199 Y: 71.23064546	140	PIRWALA	VULNERABLE SCHOOL.
88	GMPS Bug Wala	School	X: 29.45202696 Y: 71.21617988	310	JALALPUR	VULNERABLE SCHOOL.
89	GPS Obara Janubi	School	X: 29.4591468572616 Y: 71.2093341350555	92	PIRWALA	VULNERABLE SCHOOL.
90	GMPS Khalil Abad	School	X: 29.47349553 Y: 71.228403	147	JALALPUR	VULNERABLE SCHOOL.
91	GMMS 87/M	School	X: 29.45579867 Y: 71.26841366	52	PIRWALA	VULNERABLE SCHOOL.
92	GHS, Lar Janubi,	School	X: 29.521889090538 Y: 71.0691136121749	357	JALALPUR	LOCATED IN FLOOD AREA.
93	GHS, Khan Bela	School	X: 29.462952 Y: 71.10718077	231	PIRWALA	LOCATED IN FLOOD AREA.
94	Govt. P/S, Fateh Bela, Tehsil Shujabad	School	X: 29.94671855 Y: 71.25044772	130	SHUJABAD	LOCATED IN FLOOD AREA.
95	Govt. P/S, Tahir Pur, Darya Paar, Shujabad	School	X: 29.90139746 Y: 71.24313257	109	SHUJABAD	LOCATED IN FLOOD AREA.
96	Govt. P/S, Soman Jadeed, Shujabad	School	X: 29.88896811 Y: 71.2362759	91	SHUJABAD	LOCATED IN FLOOD AREA.
97	Govt. P/S, Marah, Shujabad	School	X: 29.85722298 Y: 71.21420718	119	SHUJABAD	LOCATED IN FLOOD AREA.
98	Govt. P/S, Kikar Wala, Shujabad	School	X: 29.8311746120452 Y: 71.2206423282623	80	SHUJABAD	LOCATED IN FLOOD AREA.
99	Govt. P/S, Mansay Wala	School	X: 29.75943416 Y: 71.23121037	131	SHUJABAD	LOCATED IN FLOOD AREA.
100	Govt. P/S Bhana,	School	X: 29.7780400514602 Y: 71.1979454755783	45	SHUJABAD	LOCATED IN FLOOD AREA.

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
101	Govt. P/S Rashid pura	School	X: 30.0108987092971 Y: 71.2896126508712	206	SHUJABAD	LOCATED IN FLOOD AREA.
102	Govt. M P/S Aman-Ullahpur	School	X: 29.7962951660156 Y: 71.2082022428512	91	SHUJABAD	LOCATED IN FLOOD AREA.
103	Govt. P/S Sairy	School	X: 29.72796334 Y: 71.21042037	72	SHUJABAD	LOCATED IN FLOOD AREA.
104	Govt. P/S Thatha Makhdoompur	School	X: 29.70403461 Y: 71.20151993	122	SHUJABAD	LOCATED IN FLOOD AREA.
105	Govt. P/S Jhangi	School	X: 29.7759318351745 Y: 71.2336403131484	125	SHUJABAD	LOCATED IN FLOOD AREA.
106	Govt. P/S Baghrain	School	X: 29.77661142 Y: 71.24086895	118	SHUJABAD	LOCATED IN FLOOD AREA.
107	Govt, P/S Chak Jalalpur	School	X: 29.75417527 Y: 71.18360757	70	SHUJABAD	LOCATED IN FLOOD AREA.
108	Govt, Model P/S Chotan Sharif	School	X: 29.79563714 Y: 71.25361726	100	SHUJABAD	LOCATED IN FLOOD AREA.
109	Govt. P/S Sherpur	School	X: 29.9516095 Y: 71.27462105	107	SHUJABAD	LOCATED IN FLOOD AREA.
110	GGPS Mouza Jai	School	X: 29.96058591 Y: 71.26114536	86	SHUJABAD	LOCATED IN FLOOD AREA.
111	GGPS Chawley Wala	School	X: 29.94667426 Y: 71.26186077	105	SHUJABAD	LOCATED IN FLOOD AREA.
112	GGES Jalal Pur Khakhi	School	X: 29.75149124 Y: 71.22991623	194	SHUJABAD	LOCATED IN FLOOD AREA.
113	GGPS Sehri Shujra	School	X: 29.72995156 Y: 71.21388743	111	SHUJABAD	LOCATED IN FLOOD AREA.
114	GGPS Labeja	School	X: 29.78034296 Y: 71.19777335	40	SHUJABAD	LOCATED IN FLOOD AREA.
115	GGPS, Noor Faqir Wala	School	X: 29.79563714 Y: 71.25361726	55	SHUJABAD	LOCATED IN FLOOD AREA.
116	GPS Shamsuddin wala	School	X: 29.83743827 Y: 71.21824177	220	SHUJABAD	LOCATED IN FLOOD AREA.

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	M/S. Atta Chemicals	Industrial Estate Multan	X 30.13 Y 70.37	Chemical	Asif Hyat 03008637523	Medium	Fire
2	M/s. Multan Chemical Pvt. Ltd	-do-	X 30.14 Y 71.39	Chemical	Rao Abid 03336066008	Medium	Fire
3	M/s. Pak Arab Fertilizer	Khanewal Road, Multan	X 30.13 Y 71.32	Chemical Fertilizer	Hasan Jamail 03006306805	High	Fire
4	M/s. Mousa Pak Chemicals	Industrial Estate Multan	X 30.13 Y 71.38	Chemical	Malik Aslam 03008631734	Low	Fire
5	Multan Chemicals	Industrial Estate Multan	X 30.13 Y 71.38	Chemical		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	Ehsas Development Organization	Local	Gulgasht Colony, Multan	Environment and Health	Manzoor Yusuf	03467102250
2	Zikriya Welfare Development Association	Local	Nishtar road, Multan	Health	Hafiz Abdul Rehman	03009639932
3	Women Rights Association	Local	Chowk Kumharan Wala, Multan	Women Welfare	Shaista Bukhari	03007318909
4	The Council for Insani Behbood	Local	Hazoori Bagh road, Multan	Education	M Arif	03457272576
5	Khan Welfare Services	Local	Sher Shah, Multan	Health and Education	Shamshad Kousari	03226180848
6	Aman Welfare Organization	Local	Naqashband Colony, Multan	Health, Women Welfare	Shahbaz Hussain	03007347842
7	Dais Taraqiati Tanzeem	Local	Nawab Pur, Multan	Health	Dr. Aslam Joyia	03127795809
8	Sunrise Social Welfare Organization	Local	Budhla Sanat, Multan	Women Welfare	Haji Ghulam Sarwar	0302733213
9	Roshni Welfare Organization	Local	Suraj Miani, Multan	Women Welfare, Education	Zahid Zahoor	03006303574
10	Arooj Development Organization	Local	Timber Market, Multan	Education, Women Welfare	Hafiz Anwar Hussain Malik	03336104918
11	Encourage the Human Development (EHD)	Local	MDA Chowk, Multan	Women Welfare, Child Welfare	Ms Munaza Hashmi	03007183789
12	Al Aziz Welfare Organization	Local	Sharif Pura Multan	Women Welfare, Education	M Raza Baqir	03123620284
13	Shaur Taraqiati Tanzeem	Local	Sher Shah Town, Multan	Environment and Narcotics	Shahid Mehmood Ansari	03006363682
14	Ufaq Taraqiati Tanzeem	Local	Peeran Ghayab, Multan	Women Welfare	Malik Sarfaraz	03216309707
15	Active Organization for Development	Local	Altamash Road, Multan	Women Welfare	Ayaz Ali Sheikh	03023575302
16	Rehbar Development Organization	Local	Grass Mandi, Multan	Education	Ms Violet	03457317834
17	Rohi Development Organization	Local	Allah Shafi Chowk, Multan	Women Welfare, Education	Dr. Farooq Langah	03336105276
18	Society for Special Persons	Local	Kalma Chowk, Multan	Disability Welfare	Ms Zahida Hameed	03216315160
19	Courage Development Foundation	Local	Garden Town, Multan	Women Welfare, Child Welfare	Ms Neelam	03336141524
20	Shujabad Literacy Society	Local	Shujabad	Education, Women Welfare	Meraj Din Qureshi	03027442854

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.
21	Dehi Taraqati Project Matotally	Local	Shujabad	Education, Women Welfare	Rana Riaz Noon	03457282920
22	Tanzeem e Haqooq Insani	Local	Jalalpur Pirwala	Awareness	Syed Tafseer Hussain	03017406606
23	Anmol Women Welfare Organization	Local	Jalalpur Pirwala	Women Welfare	Syeda Kalsoom Mubarak	03067751675

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

S#	Name	Desig.	Telephone (Office)	Telephone (Residential)	Email ID	Mobile
1.	Shan-UI-Haq	Commissioner, Multan Division, Multan	061-9200044 061-9200048	061-9200068	shoaibhusain@gmail.com	0304-0920055
2.	M. Waseem Khan	Regional Police Officer, Multan	061-9200425	061-9200424	rpomultan15@gmail.com	0302-8632627
3.	M. Aamir Khattak	Deputy Commissioner, Multan	061-9200042 061-9200043	061-9200045	dco.multan.it@gmail.com	0304-0920081
4.	Zubair Dareshak	City Police Officer, Multan	061-9200476	061-9200474	dpomultan@yahoo.com	0309-7772003
5.	Huma Naseeb	Chief Traffic Officer, Multan	061-9200657	-	ctomultan@yahoo.com	0300-6324024
6.	Fazal Abbas Naich	DSP, Special Branch, Multan	061-9200480	-	sebra.mul@gmail.com	0300-8633601
7.	Tayyab Khan	Additional Deputy Commissioner (Revenue)	061-9200073	061-9200091	doc.mtn1@gmail.com	0308-0110838
8.	Qamar-uz-Zaman Qaiserani	Additional Deputy Commissioner (General)	061-9200049	-	adcgmultan@gmail.com	0333-8911939
9.	Hadait Ullah	Additional Deputy Commissioner (F&P)	061-9200038	-	edofnmpul@gmail.com	0300-6721200
10.	Rana Ikhtaq Ahmed Khan	Additional Deputy Commissioner HQ	061-9200578	-	-	0300-6685530
11.	Abida Fareed	Assistant Commissioner, City Multan	061-9200089	-	acmultan.city@gmail.com	0333-7647887
12.	Shehzad Mehboob Khattak	Assistant Commissioner, Saddar Multan	061-9200784	-	ac.saddar.multan@gmail.com	0314-9391457
13.	M. Mobin Ahsan	Assistant Commissioner, Shujabad	061-4396480	-	acshujaabadmin@gmail.com	0332-4696772
14.	Ghulam Sarwar	Assistant Commissioner, Jalalpur Pirwala	061-4212232	-	acjalalpur@gmail.com	0300-1214948 0333-4004948
15.	Riaz Khan	CEO, District Education Authority, Multan	061-9210035	-	ceodeamultan@gmail.com	0300-8227718
16.	Dr. Munawar Abbas	CEO, District Health Authority, Multan	061-9200902	-	Edohealth.multan@punjab.gov.pk	0312-9233333
17.	Mian Manzoor Ahmad	Deputy Director Agriculture (Ext.) Multan	061-9200748	-	doaextmultan@hotmail.com	0345-2009988
18.	Nasir Sultan	District Disaster Management Coordinator, PIU/PDMA, Multan	061-4507415	-	ddmc_mul.piu@pdma.gov.pk	0336-7920307
19.	M. Anwar Ch.	Additional Director General, MDA, Multan	061-9200832	-	mda_mln@yahoo.com	0304-8288777
20.	Naseem Khalid Chandio	Managing Director, WASA, Multan	061-9200572	-	Wasa_mln@yahoo.com	0333-4171626

S#	Name	Desig.	Telephone (Office)	Telephone (Residential)	Email ID	Mobile
21.	Shoaib Adil	Divisional Superintendent, Railways, Multan	061-9200619	-	dsprmultan@gmail.com	0300-8386753
22.	Mian M. Anwar	Superintendent Engineer, MEPCO Multan	061-9200258	-	momultan@live.com	0330-6188880
23.	Abdul Wahid	XEN, Irrigation Shujabad Canal Multan	061-9200699	-	Xenshujabad_canal@yahoo.com	0333-4043555
24.	Aftab Asfand Yar Bhatti	XEN, Irrigation, Multan Canal	061-9200679	-	multan Canal@yahoo.com	0300-0762038
25.	Iqbal Khan	Chief Officer, District Council, Multan	061-9200298	-	districtcouncilmn@gmail.com	0300-6325663
26.	Shahid Iqbal	Chief Officer, Municipal Corporation, Multan	061-9330331	-	mcmco786@gmail.com	0321-6434600
27.	Tariq Javed	Chief Officer, Municipal Committee, Shujabad	061-4397115	-	mcsujabad@gmail.com	0300-4870460
28.	Syed Maslihuddin Bukhari	Chief Officer, Municipal Committee, Jalalpur Pirwala	061-4210334	-	mcjalalpurpirwala@gmail.com	0300-7817005
29.	Capt. Haseeb Akram	HQ Engineer, 2 Corps Pak Army Multan	061-4516604	-	-	0333-8743070
30.	Mrs. Fatima Khan	Civil Defence Officer, Multan	061-9200706	-	-	0332-6644499
31.	Malik M. Younas	Deputy Director, Social Welfare, Multan	061-9200554	-	Dosw786mn@gmail.com	0300-7343293
32.	Dr. Natiq Hayat	District Emergency Officer, (Rescue 1122), Multan	061-9220305	-	deo.mul@rescue.gov.pk	0333-6475476
33.	Dr. Kaleem Ullah	Emergency Officer (O&A), (Rescue 1122), Multan	061-9220305	-	deo.mul@rescue.gov.pk	0323-4018426
34.	M. Asif Iqbal	SNA/Focal Person Flood Control Room	061-9200963	-	snamultan.11@gmail.com	0300-6309301
35.	Control Room Rescue 1122	-	061-9220305	-	deo.mul@rescue.gov.pk	

ANNEX VIII: LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
	Qamar Abbas Khan	3630222869807	323 Beroon Dehli Gate	3156527569	-	2-4 Hrs
	Waheed Subhani	363022646227	Nawaz Flour Mills Dehli Gate	-	-	2-4 Hrs
	Naveed Iqbal	3630274701899	Khalasi Laine Dehli Gate	3066283100		2-4 Hrs
	Basheer Ahmed	3630289920331	Qala Sadaat Dehli Gate	-		2-4 Hrs
	Muhammad Bilal	3630236163955	Iqbal Road Dehli Gate	3036544792		2-4 Hrs
	Nazeer Awan	3630226386459	Iqbal Road Dehli Gate	-		2-4 Hrs
	Pir Bakhsh	3630295625486	KG School Dolat Gate	-		2-4 Hrs
	Mulazam Hussain	3630260948023	Kumharan Beroon Dolat Gate	3216389668		2-4 Hrs
	Gul Muhammad	3630287185485	Iqbal Road Dehli Gate	-		2-4 Hrs
	Muhammad Akmal	3630275951731	Iqbal Road Dehli Gate	3152816022		2-4 Hrs
	Mureed Hussain	3630204612083	Kashgeraan Beroon Dolat Gate	-		2-4 Hrs
	Muhammad Farooq	3630203434708	Muhallah Khokhran Dehli Gate	-		2-4 Hrs
	Amin Shehzad	3630280392569	Nawaz Flour Mills Dehli Gate Multan	-		2-4 Hrs
	Sultan Mehmood	3630294060857	Nawaz Flour Mills Dehli Gate Multan	-		2-4 Hrs
	Khawaja Naeem	3630223031261	Muhallah Khawajgan Dehli Gate	-		2-4 Hrs
	Muhammad Ali	3630258865407	Muhalla Khokharan Dehli Gate	-		2-4 Hrs
	Allah Ditta	3630289736523	Muhallah Khokhran Dehli Gate	-		2-4 Hrs
	Naveed Ahmed	3630204682349	Thala Waiz Wala Dehli	3027414442		2-4 Hrs
	Munair Ahmed	3630134554491	Kumharan Wala Dolat Gate	-		2-4 Hrs
	Khadim Hussain	3630203162497	Kumharan Wala Dolat Gate	-		2-4 Hrs
	Matloob Hussain	3630231637433	Pir Gohar Sultan Dehli Gate	-		2-4 Hrs
	Muhammad Nawaz	3630268649203	Muhalla Khohraan Dehli Gate	-		2-4 Hrs
	Muhammad Shaban	3630328571799	Muhalla Khohraan Dehli Gate	3008171653		2-4 Hrs
	Arshed Hussain	3630203286895	Pir Gohar Sultan Dehli Gate	-		2-4 Hrs
	Muhammad Usman	36302337195193	Iqbal Road Dehli Gate	-		2-4 Hrs

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
	Khawar Ali	3630292154277	S#12 Jan Muhammad Colony Multan	3083098672		2-4 Hrs
	Muhammad Zeshan	3630249986337	H#212/8 Haram Gate	3037374191		2-4 Hrs
	Haji Khalil	3630285351527	Chah Hafeez Wala Doolat Gate	3006365401		2-4 Hrs
	Muhammad Athar	363024963795	Indroon Hussain Agahi	3006333603		2-4 Hrs
	Shabbir Zia	36302-0348138-7	109-C Mumtaz Abad	3007192912		2-4 Hrs
	Syed Abid Hussain	36302-0321279-3	H# 68B Mumtaz Abad	3066506714		2-4 Hrs
	Muhammad Saeed	36302-9743207-5	Street#2 Nasir Abad Mumtaz Abad	3007388566		2-4 Hrs
	Muhammad Arshad	36302-7281602-3	68B Mumtaz Abad	3017495789		2-4 Hrs
	Syed Najam Shah	36302-4846021-7	45D Mumtaz Abad	3067324444		2-4 Hrs
	Muhammad Ramzan	36302-0348474-1	Street#6 Mumtaz Abad	3067320165		2-4 Hrs
	Rezwan Shehzad	36302-6059821-9	Street#6 Mumtaz Abad	3067320165		2-4 Hrs
	Mukarram Ali	36302-7135451-5	Kachi Abadi Mumtaz Abad	3007189814		2-4 Hrs
	Kamran	36302-0810873-5	Kachi Abadi Mumtaz Abad	3136312409		2-4 Hrs
	Muhammad Asif	36302-0411304-3	H#11 Street#2 Muhalla Islam Pura	3027747159		2-4 Hrs
	Muhammad Raza	36302-9992080-3	Kachi Abadi Mumtaz Abad	-		2-4 Hrs
	Yaqoob Hasim	36302-2972512-3	Street#32 Gulzeb Coloney	3157332479		2-4 Hrs
	Muhammad Bilal	36302-5035988-7	Mohalla Nasir Abad	-		2-4 Hrs
	Liaqat Qureshi	36302-6468588-1	Mumtaz Abad Street no 5 Nasir Abad	-		2-4 Hrs
	Danish Saeed	36302-6466673-5	Mohalla Nasir Abad Mumtaz Abad	3063883553		2-4 Hrs
	Dr Maqbool Rasheed	36302-2614730-1	Muhalla Joog Maia New Ghala Mandi Multan	3006370290		2-4 Hrs
	Maqsood Rasheed	36302-2940772-5	Muhalla Joog Maia New Ghala Mandi Multan	3006370290		2-4 Hrs
	Mansoor Rasheed	36302-8905620-9	Muhalla Joog Maia New Ghala Mandi Multan	3006370290		2-4 Hrs
	Muhammad Nadeem	36302-2341699-3	Muhalla Joog Maia New Ghala Mandi Multan	3053318618		2-4 Hrs
	Abdul Ghaffar	36302-2173100-3	Muhalla Joog Maia New Ghala Mandi Multan	3036537137		2-4 Hrs

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
	Ghulam Mustafa	36302-0293152-1	Muhalla Joog Maia New Ghala Mandi Multan	3036537137		2-4 Hrs
	Sardar	36302-2807058-5	Muhalla Joog Maia New Ghala Mandi Multan	3023521045		2-4 Hrs
	Muhammad Yaqoob Anjum	36302-4178308-3	Muhalla Joog Maia New Ghala Mandi Multan	3007302286		2-4 Hrs
	Saqib Hussain	36302-3925634-5	Muhalla Joog Maia New Ghala Mandi Multan	3035198817		2-4 Hrs
	Muhammad Boota	36302-0338211-7	Muhalla Joog Maia New Ghala Mandi Multan	3007356590		2-4 Hrs
	Shoukat Ali	36302-5140186-7	Muhalla Joog Maia New Ghala Mandi Multan	-		2-4 Hrs
	Zahid Basheer	36302-7789220-5	Muhalla Joog Maia New Ghala Mandi Multan	3088591955		2-4 Hrs
	Muhammad Munair	36302-0513018-9	Muhalla Joog Maia New Ghala Mandi Multan	3437229270		2-4 Hrs
	Muhammad Shafique	36302-0335053-3	Muhalla Joog Maia New Ghala Mandi Multan	-		2-4 Hrs
	Zaheer Abbas	36302-7345198-1	Arfat Colony New Ghalla Mandi Multan	3007368148		2-4 Hrs
	Mujahid shah	36302-0309904-7	Basti Dara Ekhwaj Awais Multan	3068963199		2-4 Hrs
	Muhammad Jamil	36302-7371490-7	Muhalla Jog Maia New Ghala Mandi	3238541681		2-4 Hrs
	Muhammad Ashraf Ronga	36302-8494251-7	Gul Road Beroon Pak Gate	3023344606		2-4 Hrs
	Muhammad Waqar	36302-4633736-1	H#1046/8 Muhalla Khabi Bohar Gate	___do___		2-4 Hrs
	Muhammad Asif	36302-9632874-3	Muhalla Khabi Bohar Gate	___do___		2-4 Hrs
	Malik Tasawar Hayat	36302-9632874-3	Muhalla Nawen Bhawen Beroon Pak Gate	___do___		2-4 Hrs
	Kashif Sohail	36302-4478671-1	Gul Road Beroon Pak Gate	___do___		2-4 Hrs
	Mudassar Hussain	36302-6096579-1	Gul Road Beroon Pak Gate	___do___		2-4 Hrs
	Mohsin Husain	36302-6097529-1	Gul Road Beroon Pak Gate	___do___		2-4 Hrs
	Hussain Ahmed	36302-0478906-9	Gul Road Beroon Pak Gate	___do___		2-4 Hrs
	Sajawal Hussain	36302-4653676-1	Gul Road Beroon Pak Gate	___do___		2-4 Hrs
	Sulman	36302-3125315-9	Gul Road Beroon Pak Gate	___do___		2-4 Hrs
	Malik Waseem Ijaz	36302-8608938-7	Gul Road Beroon Pak Gate	___do___		2-4 Hrs

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
	Muhammad Fahad	36302-1278284-1	Gul Road Beroon Pak Gate	___do___		2-4 Hrs
	Ajmal Ronga	36302-1513317-3	Gul Road Beroon Pak Gate	3023344606		2-4 Hrs
	Faisal Shehzad	36302-9878209-3	Gul Road Beroon Pak Gate	-		2-4 Hrs
	Junaid	36302-6333332-5	Muhalla Lodhai Haram Gate	-		2-4 Hrs
	Mursleen Arshad	36302-0206038-7	Railway Road H#1416/8 Basti Buch Multan	3075276552		2-4 Hrs
	Muhammad Faisal	36302-1631627-5	H# 18/M Railway Road Basti Buch Multan	3136136378		2-4 Hrs
	Allah Bakhsh	36302-4319846-9	Railway Road H#1404/8 Basti Buch Multan	3152911502		2-4 Hrs
	Muhammad Farhan	36302-6040137-1	Railway Road Basti Buch Multan	3027359799		2-4 Hrs
	Muhammad Sajjad	36302-756156-6	Railway Road H#1408/8 Basti Buch Multan	3236236235		2-4 Hrs
	Naeem Ahmed	36302-1803716-1	Railway Road Basti Buch Multan	3317085371		2-4 Hrs
	Muhammad Faheem	36302-641252-3	Railway Road Basti Buch Multan	3036224895		2-4 Hrs
	Muhammad Asif	36302-4509726-5	Railway Road H#1453/8 Basti Buch Multan	3066969976		2-4 Hrs
	Muhammad Hassan	36302-6077091-3	Railway Road H#1416/18 Basti Buch Multan	3146112744		2-4 Hrs
	Muhammad Shahid	36302-3367870-5	Railway Road H#1470/8 Basti Buch Multan	3236485430		2-4 Hrs
	Muhammad Ihsan	36302-9663721-3	Railway Road H#5040/8 Basti Buch Multan	3037601548		2-4 Hrs
	Muhammad Majid	36302-6123424-1	Railway Road Basti Buch Multan	3007344798		2-4 Hrs
	Muhammad Imran	36302-8886072-5	Railway Road H#5040/8 Basti Buch Multan	3027517161		2-4 Hrs
	Shabbir Awan	36302-0724891-5	Railway Road Basti Buch Multan	3236236235		2-4 Hrs
	Muhammad Dilsher	36302-8166128-9	Railway Road Basti Buch Multan	-		2-4 Hrs
	Faheem Ahmed	36302-6651578-1	Railway Road Basti Buch Multan	3326061060		2-4 Hrs
	Muhammad Sajid	36302-3497443-9	Railway Road H#1417/8 Basti Buch Multan	3036381532		2-4 Hrs
	Abdul Kaleem	42101-1988236-7	Railway Road Basti Buch Multan	-		2-4 Hrs

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
	Khalid Waheed	36302-0392176-3	Khawaja Colony Gali no 1 Faizi Road Lakar Mandi	3367914001		2-4 Hrs
	Shaikh Muzammal	36302-7992813-5	Khawaja Colony Gali no 1 Faizi Road Lakar Mandi	3236266527		2-4 Hrs
	Muhammad Tayyub Farhad	36302-3972822-5	Khawaja Colony Gali no 1 Faizi Road Lakar Mandi	3017522995		2-4 Hrs
	Muhammad Kashif	36302-2407170-5	H#1385/14 Muhalla Shah Sultan Railway Raod	3006388482		2-4 Hrs
	Muhammad Tariq	33102-5474697-7	Amir Street Hassan Parwana	-		2-4 Hrs
	Muhammad Ashraf	36302-5445053-1	Railway Raod Multan	-		2-4 Hrs
	Khawaja Dilshaad Ahmed	36302-0287708-5	Muhalla Khudian Androon dehli Gate	3006332446		2-4 Hrs
	Waheed Ahmed Bhutta	36302-3771393-5	Muhalla Kopri Prolian Androon Dehli Gate	3216330286		2-4 Hrs
	Muhammad Sultan	36302-2787028-1	Kachi Abadi Nalla Wali Muhammad			2-4 Hrs
	Muhammad Irfan	36302-0393922-1	537 Androon Lohari Gate	3136835509		2-4 Hrs
	Muhammad Waheed	36302-2180492-7	540 Androon Lohari Gate	____do____		2-4 Hrs
	Muhammad Zubair	36302-3564082-9	830 Androon Lohari Gate	____do____		2-4 Hrs
	Wajid Ali	36302-6591550-1	H#2660 Gali no3 Raza Abad Shah Shamas Road	3337629547		2-4 Hrs
	Muhammad Noshad	36302-9636318-1	H#2660/9 Ashraf Abad Colony			2-4 Hrs
	Muhammad Kashif Ghayas	36302-0929075-1	H#260 Raza Abad Lohari gate			2-4 Hrs
	Muhammad Arif	36302-5627154-5	H#1466 Mughal Abad	3156195142		2-4 Hrs
	Muhammad Saleem	36302-7100942-5	St No 7 Raza Abad Lohari Gate			2-4 Hrs
	Muhammad Raees Ahmed	36302-4614506-9	H#2660/9 Ashraf Abad Lohari Gate	3006303135		2-4 Hrs
	Muhammad Jamil	36302-8077361-7	1454 Gulshan Muslam Muhalla Khatkana Multan	3226127704		2-4 Hrs
	Hassan Raza	36302-6978709-3	Gulshan Muslam Muhalla Khatkana Multan	3027390733		2-4 Hrs
	Muhammad Shakeel	36302-9503918-7	Gulshan Muslam Muhalla Khatkana Multan	3467131999		2-4 Hrs
	Zafar Iqbal	36302-5145735-1	Grass Mandi Gulnar Colony Gali no 6	3008334348		2-4 Hrs
	Mirza Muhammad Sajid Akhtar	36302-8810247-7	Purana Shujaabad Road Muslam	3136394343		2-4 Hrs

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
			Colony Kumhar Mandi			
	Mirza Muhammad Sohail	36302-7374911-9	Purana Shujaabad Road Muslim Colony Kumhar Mandi	3126391256		2-4 Hrs
	Atif Ali	36302-2984740-9	Muhalla New Multan Gali No 2 T Block	3146146019		2-4 Hrs
	Muhammad Abdur Rehman	36302-1773560-7	H#282 Muhalla Shahrai Rashid Double Phatak	3144671120		2-4 Hrs
	Muhammad Naveed	36302-9218692-3	H#3585 Muhalla Basti Mohania Railway Road	3216370868		2-4 Hrs
	Sheikh Jafar Hussain	36302-1344889-1	Nisar Colony Near Saddique Commercial Centre Timber Market	3017473361		2-4 Hrs
	Dildar Hussain Baloch	36302-1934942-7	343 Timber Market	3017540316		2-4 Hrs
	Asif Bashir	36302-5107684-9	Lakar Mandi Faizi Road Gali Hakeem Dastgir	3007371575		2-4 Hrs
	Haji Muhammad Khalil	36302-0341123-3	Muhalla Khawajgan near Masjid Abu Bakar Diara Basti Multan	3086503104		2-4 Hrs
	Muhammad Asghar	36302-3693798-5	Muhalla Abid Pure Gali no 1 Opposite Darbar Baba Pir Roda Chah Jamoo Wala	3014729343		2-4 Hrs
	Muhammad Amin	36302-0400784-1	Lakar Mandi Faizi Road Gali Hakeem Dastgir	3006337847		2-4 Hrs
	Deshan Nasse	36302-8917441-1	H#2546 Gali No 2 Muhalla Basti Diara	3025202230		2-4 Hrs
	Adeel Mehamood Bhutta	36302-3187401-9	Chah Jamoo Wala Vehari Road	3326038318		2-4 Hrs
	Haji Muhammad Riaz	36302-3703416-7	Muhalla Abid Pure Gali no 1 Opposite Darbar Baba Pir Roda Chah Jamoo Wala	3067378320		2-4 Hrs
	Zahoor Hussain	36302-0282292-3	Timber Market near Gali Dr Shafqat Wali	3023564972		2-4 Hrs
	Muhammad Nawaz	36302-8642470-1	Purani Chungi No 22 Main street Vehari Road Multan	3016440561		2-4 Hrs
	Muhammad Irfan	36302-9118993-7	Chah Ganjay Wala Timber Market Basti Diara	3007376573		2-4 Hrs
	Muhammad Shabir Qurashi	36302-1544521-7	Zakaria Colony Vehari Road Multan	3006388151		2-4 Hrs

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
	Barkat Ali	36302-6967561-1	Gali no 3 Muhalla Nizam Abad Purana Shujaabad Road	3417426353		2-4 Hrs
	Shabeer Hussain Alvai	36302-3511650-1	Double Phattak Vehari Road	3017447364		2-4 Hrs
	Imtiaz Ali	36302-9199631-3	H# 911 Gali no 22 Bajli Ghar no 6 Kumhar Mandi	3156227873		2-4 Hrs
	Babar Ali	36302-5325511-7	Kachi Abadi Bajli Ghar no 6H# 911/404 Gali no 14 Kumhar Mandi	3027728351		2-4 Hrs
	Muhammad Babar Ali	36302-1450131-7	Kumhar Mandi Gali no 14	3157934081		2-4 Hrs
	Sagheer Ahmed Shah	36302-0360692-3	Railway Masjid Railway Colony			2-4 Hrs
	Muhammad Hussain	36302-3218650-1	Kumhar Mandi Zakria Colony			2-4 Hrs
	Aurangzeb	36302-6340989-1	Kumhar Mandi Vehari Road Galli no 21 Muhalla Zakria Colony			2-4 Hrs
	Shakeel Ahmed	36302-3987907-7	Nar MandiNear Bajli Ghar no 6			2-4 Hrs
	Muhammad Sajjad	36302-3219194-9	Malik Pura Purana Shuja Abad Raod	3007309649		2-4 Hrs
	Adeel Ahmed	36302-7217394-1	Near Grass Mandi Plate Farm	3326039318		2-4 Hrs
	Kaleem Ullah	36301-9733509-1	Railway Quarter Lakar Mandi Faizi Road	3015601622		2-4 Hrs
	Shajad Aziz	36302-03665007	Zakirya Colony Gali no 21 Kumhar Mandi	3156508560		2-4 Hrs
	Waseem abbas Shah	36302-9062651-5	Suraj Miani Multan	3017453667		2-4 Hrs
	Barkat Shah	36303-7032482-5	Suraj Miani Multan	3007411244		2-4 Hrs
	Lal Shah	36302-7032250-9	Suraj Miani Multan	3427352010		2-4 Hrs

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
154	Malik Ahmad Hassain Deharr	PTI	0300-9635599	211	Ali Haider Gillani	PPPP	0320-4015555
155	Malik Aamir Dogar	PTI	0300-8730786	212	M. Saleem Akhtar	PTI	0345-7212228
156	Shah Mehmood Qureshi	PTI	0300-8634453	213	Waseem Khan Badozai	PTI	0300-8637704
157	Makhdoom Zain Qureshi	PTI	0307-6664466	214	M. Zaheer Ud Din Alizai	PTI	0333-6118868
158	M. Ibrahim Khan	PTI	0300-8633665	215	Javed Akhtar Ansari	PTI	0300-6339520
159	Rana M. Qasim Noon	PTI	0323-5741457	216	M. Nadeem Qureshi	PTI	0300-9633860
				217	Salman Naeem	PTI	0312-8900000
				218	Wasif Mazhar	PTI	0300-8635691
				219	Dr. M. Akhtar Malik	PTI	0300-8634051
				220	Mian Tariq Abdullah	PTI	0345-7222221
				221	Rana Ejaz Noon	PTI	0333-6106666
				222	Qasim Abbas Khan	PTI	0300-8631085
				223	Naghma Mushtaq	PMLN	0300-8463610

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	Chairman District Council	Multan			
2	Chairman Municipal Corporation, Multan	Multan			
3	Chairman Municipal Committee, Shujabad	Shujabad			
4	Chairman Municipal Committee, Jalalpur Pirwala	Jalalpur Pirwala			

UC Level

S#	Tehsil	UC #	UC Name	Chairman Name	Chairman Contact
1	Multan City	1	Nizam Abad		
2	Multan City	2	Ameer Abad		
3	Multan City	3	Shadab Colony		
4	Multan City	4	Gulgasht Colony		
5	Multan City	5	Usman Abad		
6	Multan City	6	Officers Colony		
7	Multan City	7	Abid Colony		
8	Multan City	8	Shams Abad		
9	Multan City	9	Wahdat Colony		
10	Multan City	10	Khushaal Colony		
11	Multan City	11	Hasan Abad		
12	Multan City	12	Mehria Colony		
13	Multan City	13	Behari Colony		
14	Multan City	14	Shah Rukn-e-Alam		
15	Multan City	15	New Multan		
16	Multan City	16	Ghous Pura		
17	Multan City	17	Shareef Pura		
18	Multan City	18	Momin Abad		
19	Multan City	19	Ansar Colony		
20	Multan City	20	Writers Colony		
21	Multan City	21	Awan Pura		
22	Multan City	22	Manzoor Abad		
23	Multan City	23	Mohalla Khawajgan		
24	Multan City	24	Mohalla Hazaraian wala		
25	Multan City	25	Ittefaq Pura		
26	Multan City	26	Iqbal Nagar		
27	Multan City	27	Qasab Pura		
28	Multan City	28	Shah Bring		
29	Multan City	29	Khanqah Inayat Shah		
30	Multan City	30	Shah Risal		

S#	Tehsil	UC #	UC Name	Chairman Name	Chairman Contact
31	Multan City	31	Hassan Parwana		
32	Multan City	32	Jaleel Abad.		
33	Multan City	33	Baghban Pura		
34	Multan City	34	Bagh Laangay Khan		
35	Multan City	35	Nishtar Town		
36	Multan City	36	Sadiq Colony		
37	Multan City	37	Latif Abad		
38	Multan City	38	Sheesha Factory		
39	Multan City	39	Gulnar Colony		
40	Multan City	40	Wilayat Abad		
41	Multan City	41	Timber Market		
42	Multan City	42	Siddique Abad		
43	Multan City	43	Ashraf Colony		
44	Multan City	44	Abbas Pura		
45	Multan City	45	Rangeel Pur		
46	Multan City	46	Peer Colony		
47	Multan City	47	Gulzaib Colony		
48	Multan City	48	Nazim Abad.		
49	Multan City	49	Lohar Colony		
50	Multan City	50	Mumtazabad		
51	Multan City	51	Qasim pur Colony		
52	Multan City	52	Panjad Colony		
53	Multan City	53	Ajmair Colony		
54	Multan City	54	Ram Kali		
55	Multan City	55	Basti Shor Kot		
56	Multan City	56	Ghous Abad		
57	Multan City	57	Mohalla Kamangran		
58	Multan City	58	Mohalla Gilanian		
59	Multan City	59	Bazar Umar Farooq		
60	Multan City	60	Shah Gardaiz		
61	Multan City	61	Bakkhar Aarbi		
62	Multan City	62	Qutab Pur		
63	Multan City	63	Seetal Maari		
64	Multan City	64	Peeran Ghaib-I		
65	Multan City	65	Peeran Ghaib-II		
66	Multan City	66	Jahangir Abad Urban		
67	Multan City	67	Neel Kot		
68	Multan City	68	Taraf Mubarak Doem		
69	Multan Saddar	69	Durana Langana		
70	Multan Saddar	70	Jahangir Abad Rural		
71	Multan Saddar	71	Bheni		
72	Multan Saddar	72	Dera Budhu Malik		
73	Multan Saddar	73	Kayan Pur		
74	Multan Saddar	74	Aalampir		
75	Multan Saddar	75	JangalBhera		
76	Multan Saddar	76	Muzafar Abad		
77	Multan Saddar	77	Jakkhar Pur		

S#	Tehsil	UC #	UC Name	Chairman Name	Chairman Contact
78	Multan Saddar	78	Tibba Masood Pur		
79	Multan Saddar	79	Qasim Bela		
80	Multan Saddar	80	Muhammad Pur Ghota		
81	Multan Saddar	81	Raaj Ghat		
82	Multan Saddar	82	Alamdi Sura		
83	Multan Saddar	83	Jhoke Wains		
84	Multan Saddar	84	Mardan Pur		
85	Multan Saddar	85	Bosan		
86	Multan Saddar	86	Jungle Kalran Wala		
87	Multan Saddar	87	Matti Tal		
88	Multan Saddar	88	Inayat Pur Mahota		
89	Multan Saddar	89	Panj Koha		
90	Multan Saddar	90	Salay Mahay		
91	Multan Saddar	91	Basti Nao		
92	Multan Saddar	92	Nawab Pur		
93	Multan Saddar	93	Lutf Abad		
94	Multan Saddar	94	Binda Sandila		
95	Multan Saddar	95	Taj pur Sandila		
96	Multan Saddar	96	Sher Shah		
97	Multan Saddar	97	Khokhar		
98	Multan Saddar	98	Hamid Pur Kanora		
99	Multan Saddar	99	Ambala		
100	Multan Saddar	100	Feroz Pur		
101	Multan Saddar	101	Qasba-I		
102	Multan Saddar	102	Qasba Saani		
103	Multan Saddar	103	Chadhar		
104	Multan Saddar	104	Rana Wahin		
105	Multan Saddar	105	Tarragarh		
106	Multan Saddar	106	12-F(Basti Malook)		
107	Multan Saddar	107	Qadir Pur Larr		
108	Multan Saddar	108	Mubarak Pur		
109	Multan Saddar	109	Qasba Chahrum		
110	Multan Saddar	110	Kabeer Pur		
111	Multan Saddar	111	Laar		
112	Multan Saddar	112	Chak 5-F		
113	Multan Saddar	113	Ridd		
114	Multan Saddar	114	Billi Wala		
115	Multan Saddar	115	Chak 1-F		
116	Multan Saddar	116	Sher Singh Wala		
117	Multan Saddar	117	18/MR		
118	Multan Saddar	118	Bootay Wala		
119	Multan Saddar	119	Khan Pur Maral		
120	Multan Saddar	120	Kot Rab Nawaz		
121	Multan Saddar	121	Doomra		
122	Multan Saddar	122	Jhoke Lashkar Pur		
123	Multan Saddar	123	Jalal Abad		
124	Multan Saddar	124	Makhdoom Rasheed		

S#	Tehsil	UC #	UC Name	Chairman Name	Chairman Contact
125	Multan Saddar	125	2/MR		
126	Multan Saddar	126	Qadir Pur Raan Sharqi		
127	Multan Saddar	127	Kirpal Pur		
128	Multan Saddar	128	Taatay Pur		
129	Multan Saddar	129	Kothay Wala Shumali		
130	Multan Saddar	130	Dograna / Budhal Sant		
131	Multan Saddar	131	Chattha		
132	Multan Saddar	132	Khaggay Wala		
133	Multan Saddar	133	Kotla Maharan.		
134	Multan Saddar	134	Kurari Tumak		
135	Multan Saddar	135	Loothar		
136	Multan Saddar	136	Bangal Wala Sharqi		
137	Multan Saddar	137	Qadir Pur Raan Shahar		
138	Multan Saddar	138	Qadir Pur Raan Gharbi		
139	Tehsil Shujabad	139	Ponta		
140	Tehsil Shujabad	140	Daira Pur		
141	Tehsil Shujabad	141	Chak R.S		
142	Tehsil Shujabad	142	Sikandar Abad		
143	Tehsil Shujabad	143	Todar Pur		
144	Tehsil Shujabad	144	Khoja		
145	Tehsil Shujabad	145	Shah Pur Ubha		
146	Tehsil Shujabad	146	Gajju Hatta		
147	Tehsil Shujabad	147	Basti Mithu		
148	Tehsil Shujabad	148	Raja Ram		
149	Tehsil Shujabad	149	Mari Noon		
150	Tehsil Shujabad	150	Kotli Nijabat		
151	Tehsil Shujabad	151	Shah Moosa		
152	Tehsil Shujabad	152	Matotli		
153	Tehsil Shujabad	153	Rasool Pur		
154	Tehsil Shujabad	154	Thath Ghalwan		
155	Tehsil Shujabad	155	Qaiser Pur		
156	Tehsil Shujabad	156	Obara		
157	Tehsil Shujabad	157	Gunwain		
158	Tehsil Shujabad	158	Panjani		
159	Tehsil Shujabad	159	Jalalpur Khakhi		
160	Tehsil Shujabad	160	Moochan Pur		
161	Tehsil Shujabad	161	Bagrain		
162	Tehsil Shujabad	162	Gardaiz Pur		
163	Tehsil Shujabad	163	Rukan Hatti		
164	Tehsil Jalalpur Pirwala	164	Karam Ali Wala		
165	Tehsil Jalalpur Pirwala	165	Laal Wah		
166	Tehsil Jalalpur Pirwala	166	Mian Pur Belay Wala		
167	Tehsil Jalalpur Pirwala	167	Jaggu Wala		
168	Tehsil Jalalpur Pirwala	168	Kanhoon		

S#	Tehsil	UC #	UC Name	Chairman Name	Chairman Contact
169	Tehsil Jalalpur Pirwala	169	Bahadar Pur		
170	Tehsil Jalalpur Pirwala	170	Kotla Chakar		
171	Tehsil Jalalpur Pirwala	171	Depal		
172	Tehsil Jalalpur Pirwala	172	Noraja Bhutta		
173	Tehsil Jalalpur Pirwala	173	Shujaat Pur		
174	Tehsil Jalalpur Pirwala	174	Durab Pur.		
175	Tehsil Jalalpur Pirwala	175	Sheeni		
176	Tehsil Jalalpur Pirwala	176	KarmoonWali		
177	Tehsil Jalalpur Pirwala	177	Bait Kaitch Janoobi		
178	Tehsil Jalalpur Pirwala	178	Bait Kaitch Shumali		
179	Tehsil Jalalpur Pirwala	179	Inayat Pur		
180	Tehsil Jalalpur Pirwala	180	Ali Pur Saadat		
181	Tehsil Jalalpur Pirwala	181	Ghazi Pur		
182	Tehsil Jalalpur Pirwala	182	Kotli Adal		
183	Tehsil Jalalpur Pirwala	183	Behli		
184	Tehsil Jalalpur Pirwala	184	Jahan Pur		
185	Tehsil Jalalpur Pirwala	185	Hafiz Wala.		

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	Punjad Head works Division	Right Marginal Bund	15,000
2	-do-	Left Marginal Bund	15,000
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	10,000
Total in feet.			55,000
Total in Miles.			10.42
MULTAN ZONE.			
1	Trimmu Division	Right Marginal Bund	20,000
2	-do-	Left Marginal Bund	20,000
3	Sulemanki Division	Left Marginal Bund	10,000
4	-do-	Right Marginal Bund	10,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	10,000
6	-do-	Akbar Flood Bund	10,000
Total in feet.			80,000
Total in Miles.			15.15
D.G.KHAN ZONE			
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khargarh Flood Bund	5,000
7	-do-	Khanwah Flood Bund	5,000
8	Jampur Construction Division	Jampur Flood Bund	5,000
9	-do-	Rojhan Flood Bund	20,000
Total in feet.			1,35,000
Total in miles			25.57

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

INFORMATION REGARDING FLOOD BUND CATEGORY B

S#	Name of Division	Name of Embankment / Bund	Length (ft.)
SARGODHA ZONE			
1	Rasul Headworks Division	Important / Vulnerable Reaches	10,000
2	Bhakkar Division	-do-	10,000
3	Layyah Division	-do-	10,000
4	Jhelum Division	-do-	5,000
Total in feet.			35,000
Total in miles			6.63
FAISALABAD ZONE			
1	Khani Division	-do-	20,000
2	Jhang Division	-do-	50,000
3	Qadirabad Barrage Division	-do-	60,000
4	Burala Division	-do-	35,000
Total in feet.			165,000
Total in miles			31.25
BAHAWALPUR ZONE			
1	Punjad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
Total in feet.			290,000
Total in miles			54.92
MULTAN ZONE			

1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
Total in feet.			190,000
Total in miles			35.98
<u>D.G.KHAN ZONE</u>			
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
<u>LBDC (IP)</u>			
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
<u>LAHORE ZONE</u>			
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
<u>PMO BARRAGES</u>			
1	Jinnah Barrage	-do-	20,000
Total in feet.			20,000
Total in miles			3.79
Grand Total (in miles)			350.76

ANNEX XIV: RIVER DISCHARGE RATES

River	Gauge Site	Designed Capacity (lac Cs)	Flood Limits in Lac Cs.				
			Low	Med:	High	Very High	Exp. High
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	10	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
CHENAB	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
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
SUTLEJ	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
	Islam	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.