

DISTRICT DISASTER MANAGEMENT PLAN 2022

Division: Multan

District: Khanewal



Road Accident at NHA on Mrach 2021



Deep well extraction at Kabirwal in January 2021



Floods in 2020



Mini Van plunge into Malsi Link Cannal May 2020

Prepared by: Omer Iftikhar Sherazi, Addl. Deputy Commissioner
(Revenue), Khanewal

Approved by: Salman Khan, Deputy Commissioner, Khanewal.



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Hill Torrent

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



Risk: Low

Flood

Estimated number of people at risk of Floods in 2021



Risk: Medium

Earthquake

Estimated number of people at risk of earthquake in 2021



Risk: High

Epidemic

Estimated number of people at risk of epidemic in 2021



Risk: High

EXECUTIVE SUMMARY

Khanewal has a rich and vibrant history which can be traced back to the early 1900s. Khanewal is famous for its cotton growing industry. The district of Khanewal was created in 1985 out of the two Tehsils of Multan District, namely Kabirwala and Mian Channu. District Khanewal has an extreme climate i.e. very hot in summer to the extent of 50°C and cold in winter upto 1°C. The land of the district is very fertile and plain. The district has a total metalled road-length of 1208 Kilometres. The Major Hazards to the District are as follows:

Floods

Earthquake

Fire Incidents

Road Traffic Accidents

Building Collapse

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	2,921,986
2.	No. of Tehsils	4
3.	No. of UCs	113
4.	No. of Revenue Estates	679
5.	Population Density (people per km ²)	604
6.	Family Size	7
7.	Pop Growth Rate	2.60
8.	PCI	1,520
9.	District GDP/Annual Income	25
10.	Poverty Rate	39
11.	Patient/Doctor Ratio	10,000
12.	AMR	23
13.	IMR	92
14.	MMR	475
15.	Literacy Rate	57%
16.	Global Acute Malnutrition (GAM) rate	24
17.	Severe Acute Malnutrition (SAM) rate	20
18.	Percentage of population having access to clean drinking water	90
19.	Annual Crime	4,018

Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
2,921,986	790,475	604,171	779,977	649,673	92,690

Source/Note: Click here to enter text.

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
374,741	56,207	318,507

Source/Note: Click here to enter text.

Area (in acres)

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
4,349	861,799	746,124	115,675

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
57%	66%	40%	71%	39%	60%	40%

Source/Note: Click here to enter text.

Government Schools

		Schools	Enrollment
Total/ Overall		1,308	85
Boys	Primary	252	85
	Middle	154	85
	High	123	85
Girls	Primary	480	85
	Middle	209	85
	High	84	85
Co-Education	Primary	0	0
	Middle	0	0
	High	0	0
Special Education		5	700

Private Schools

		Schools	Enrollment
Total/ Overall		710	90
Boys	Primary	0	0
	Middle	195	90
	High	80	90
Girls	Primary	0	0
	Middle	225	90
	High	101	90
Co-Education	Primary	109	90
	Middle	0	0
	High	0	0
Special Education		2	60

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	13	1	0	10	3	26
No of Students	14,670	476	0	1,020	591	16,281

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	89	5	0	107	201
Annual OPDs	122,611	715,687	0	25,966	864,264
No of beds	342	430	0	761	1533
Doctors Available	90	89	0	147	326
Paramedical staff	522	241	0	483	1246
Ambulances available	0	0	0	0	0
Mobile Medical Units					

Livestock: Small Animals (goats, sheep etc.): 757,941 Big Animals (cows, buffalos, camel etc.) 1,091,408

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

Agriculture	Livestock	Poultry	Fish Farming	Services (Public & Pvt)	Business	Expatriates	Industrial Labor	Skilled Labor	Unskilled Daily Labor	General Labor
44%	13%	8%	5%	15%	12%	3%	60%	15%	25%	100%

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	2013	1900	0	21	0	0	0	
2	2014	42,180	0	89	173	1,150	324,897,500	
3	2015	5,053	0	23	0	0	0	
4	2016	-	-	-	-	-	-	

5	2017	-	-	-	-	-	-	
6	2018	-	-	-	-	-	-	
7	2019	-	-	-	-	-	-	
8	2020	199	-	-	-	-	-	
9	2021	-	-	-	-	-	-	
10								
11								
12								

Disaster History – Other disasters (since 1970)

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

General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Multan, Vehari, Toba Tek Shing, Jhang, Sahiwal and Lodhran Multan (Floods, earthquake, Industrial hazards) Toba Tek Shing (Floods and earthquake) Jhang (Floods and earthquake)
Topographical Features	The land of the district fertile and plain.
Weather/Climate pattern	e.g. max. and min. temperature, annual precipitation, storms, heat waves, snow fall etc. District Khanewal has an extreme climate i.e. very hot in summer to the extent of 50°C and cold in winter upto 1°C. The average rainfall in the district is 93 mm.
Major Rivers	Name of river, passing through areas along with length in the district Major Barrages and their Flood levels The river Chenab flows on its north and the river Ravi on its North East side. Name of River affecting Tehsil Kabirwala 1. Chenab, 2. Ravi New Sidhnai Barrages in Tehsil Kabirwala Flood Levels Flood Limits Low Flood Medium Flood High Flood Very High Flood Exceptionally High Flood
	New Sidhnai Barrage Above 0.30 Lac CS Above 0.45 Lac CS Above 0.60 Lac CS Above 0.90 Lac CS Above 1.20 Lac CS

	Designed Capacity At Chenab Flood Bund Low Flood Medium Flood High Flood Very High Flood Exceptionally High Flood	Above 1.75 Lac CS Above 1.5 Lac CS but less than 2.0 Lac CS Above 2.0 Lac CS but less than 3.0 Lac CS Above 3.0 Lac CS but less than 4.5 Lac CS Above 4.5 Lac CS but less than 6.0 Lac CS Above 6.0 Lac CS
Major Nullahs / Streams	Name of river, passing through areas along with length in the district Flood levels Lower Barri Dawab Cannal, Shuja Abad link cannal, Millsi Sidhnai Link Cannal	
Motorway/Highway	Vulnerable points of motorway/highway Lahore More, Daha Chowk, Iqbal Nagar By pass, Khanewal to Lordhran Road, Khanewal to Kabirwala Road, Kabirwala to Multan road, Jhang road, Sardarpur road, Shamkot Road, M-4 Motorway	
Railways	Vulnerable points of Railway Khanewal is main Junction of Railway	
Geological features	e.g. fault line, mountainous areas etc. The area around the city is a flat, alluvial plain and is ideal for agriculture.	

Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
Not Applicable	Not Applicable	X: Y:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
		X: Y:				

Major Embankments/Bunds

Name of Embankment	Length (km)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/vulnerable Points	GPS Location of Critical/Vulnerable Points	Remarks
Left Marginal Bund	27	RD:0+00 of LMB (Bqaghdad / Mian Channu)	RD:89+585 LMB (Chak No. 3/Mian Channu)	-	X:33.62 Y: 81.94	Overall condition of the bund is satisfactory
Right Marginal Bund eft Marginal Bund		RD:0+00 of RMB (Moza Jossa/Pir Mahal) D:0+00 of LMB (Bqaghdad / Mian Channu)	RD:115000+00 RMB (Busri Qathain/ Kamalia) D:89+585 LMB (Chak No. 3/Mian Channu)			Satisfactory, length of RMB is 35 Km
Chenab Flood Bund	20	RD:0+00 of CFB (Sardar Pur/Kabirwala)	RD:100+00 of CFB (Ghagra Qalander/Kabirwala)	Nil	X: Y:	Overall condition of the bund is satisfactory

Breaching Section

Name of Bund/	Likely Affected Population	Remarks
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Embankment	Name of Breaching Section	Location with GPS Coordinates	Male	Female	Children	Likely Affected Revenue Estate	
River Ravi	at 16 RMB	X:30.62 Y: 72.94	8,000	12,000	5,000		Breaching section of Sidhnai Barrage located in District Toba Tek Singh
		X: Y:					
		X: Y:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
Rosch Power Plant	450 MW	X:30.57 Y: 72.15	Fauji Power Plant	157 MW	X:30.52 Y: 71.95
Zahoor Abad Grid Station	132 KVA	X:30.31 Y: 71.95	Kacha Khu Grid Station	132 KVA	X:30.37 Y: 72.15
Kabirwala Multan Road Grid Station	132 KVA	X:30.39 Y: 71.84	Kabirwala Jhang Road Grid Station	132 KVA	X:30.42 Y: 71.87

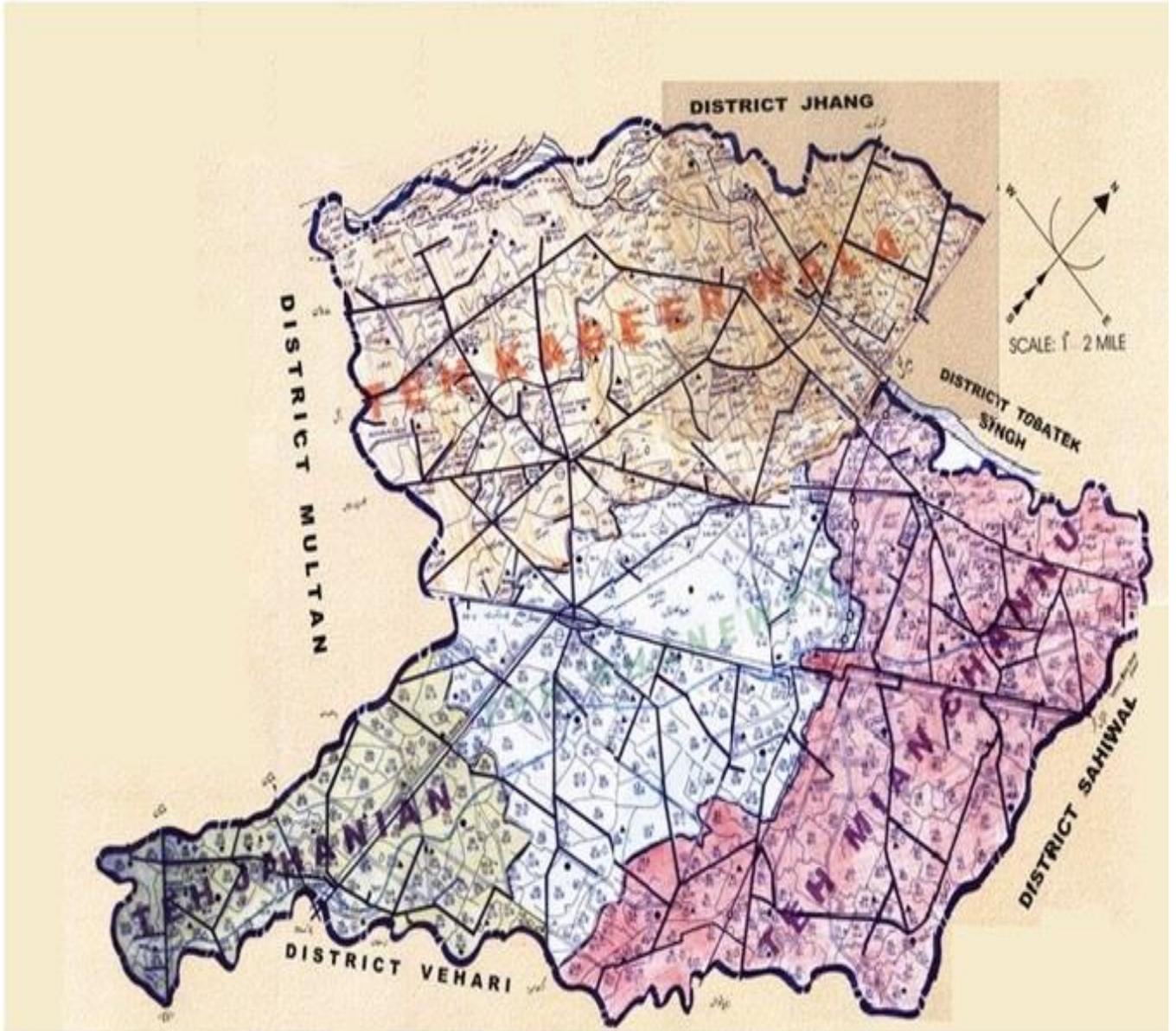
Airport / Landing Strips

Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
N/A	N/A	X: Y:			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:
		X: Y:			X: Y:

Govt. storage facilities/warehouses in the district

Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
Wheat Stock	16,000	X:30.28 Y: 71.93	Wheat Stock	21,000	X:30.42 Y: 72.30
Wheat Stock	10,000	X:30.66 Y: 71.70	Wheat Stock	5,000	X:30.79 Y: 71.04

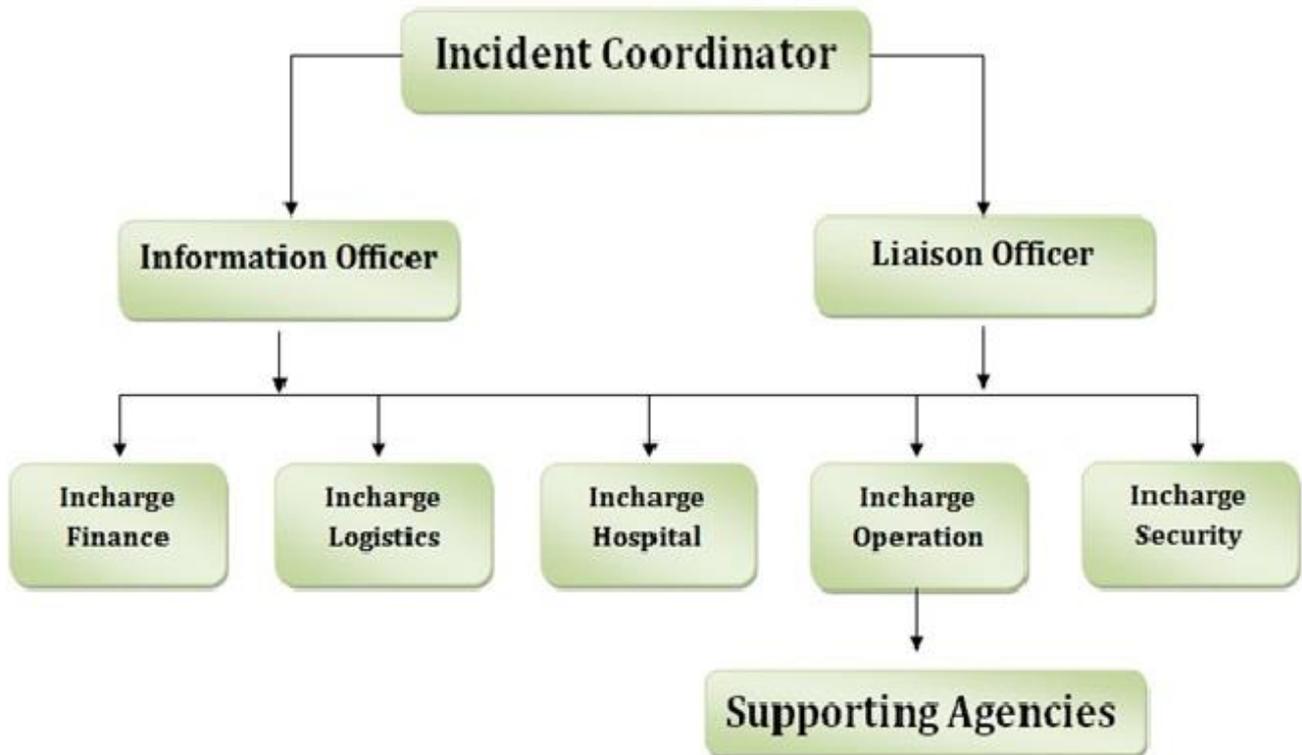
District baseline/reference map



Source:

COORDINATION MECHANISM

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

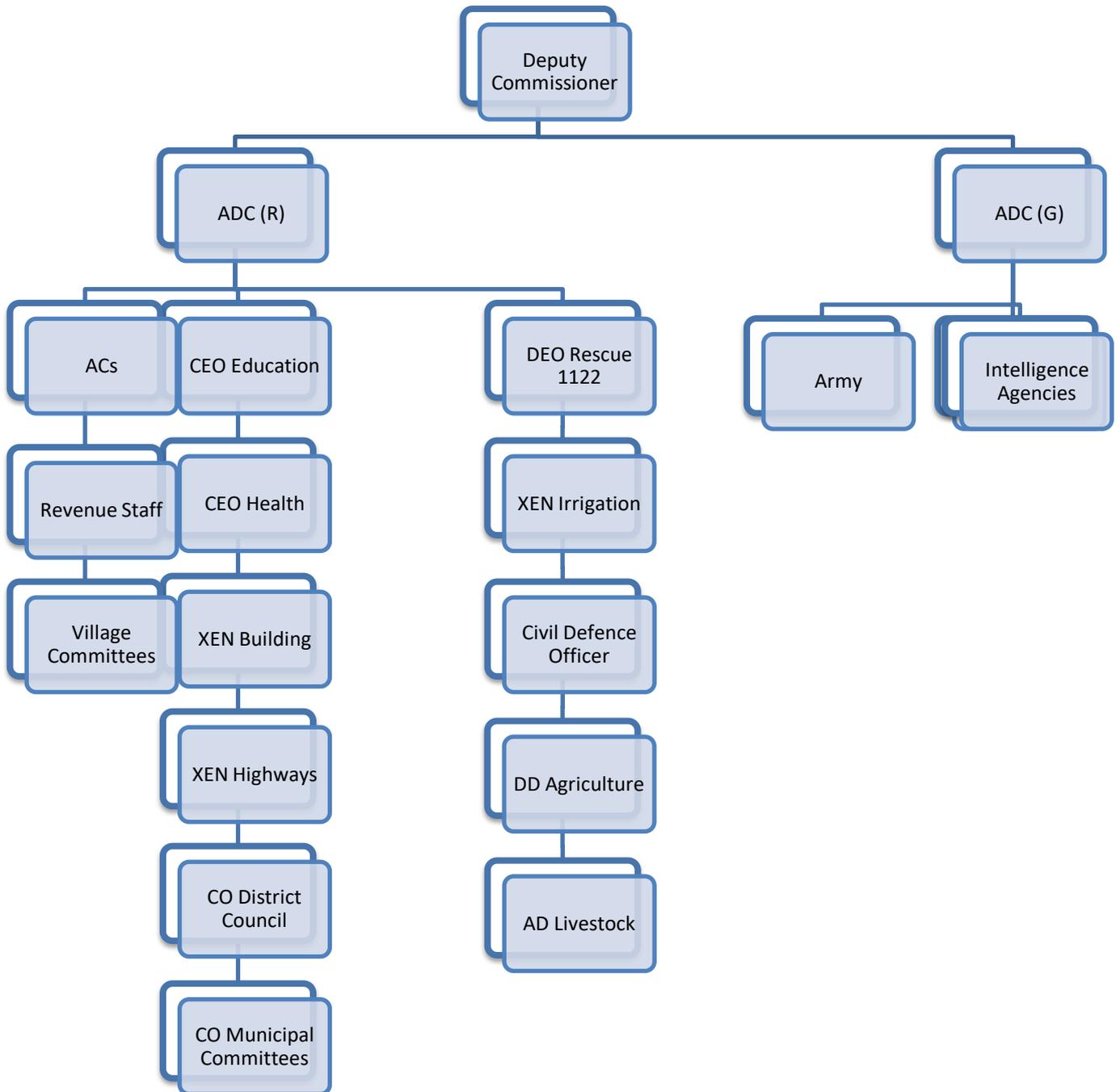


DISTRICT EMERGENCY OPERATION CENTRE (DEOC) KHANEWAL

- The District Emergency Operation Centre (DEOC) established in the DC Office Complex will be operational 24/7 round the clock with landline number 065-2551718.
- . Additional Deputy Commissioner (Rev)/District Flood Relief Officer will be overall incharge of DEOC.
- All the emergencies will be monitored in DEOC.
- Duty roster will be issued by the ADC-R/DEOC Incharge.
- The officials deputed for duty shall be given training by the DEOC Incharge about their role and duties.
- The officers/officials on duty at DEOC, will note each and every complaint received telephonically and through pront/electronic media & will take action as per SOPs of the operational manual of DEOC.
- The foregoing arrangements shall also be made on the similar pattern at offices of the Assistant Commissioners officers.
- During monsoon season, (in normal situation) Information regarding discharge position of River Chenab and all Nullahs in the District shall be received twice a day, in case of any potential threat or emergency, frequency of information shall be increased.
- During Monsoon season, the following departments shall also establish their Departmental Flood Control Rooms on the similar pattern.
 - District Council
 - Muncipal Corporation/Committees Sialkot, Pasrur, Daska & Sambrial
 - District Police
 - Rescue 1122
 - Irrigation XEN (s) Marala& Pasrur link Divisions.







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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

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

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

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

Checklist for Revenue Department:

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

Metropolitan / Municipal Corporations

Municipal / Town Committees

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

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

District Disaster Management Authority (DDMA)

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

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

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

Role of Rescue 1122 in districts during disaster

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

Pre-disaster Check list for DDMA

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

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

Disaster Emergency Control Room (functions and responsibilities)

ROLE AND RESPONSIBILITIES OF INCHARGES:

a. Incident Coordinator (IC):

The Deputy Commissioner (Chairman of the District Emergency Board) will be the Incident Coordinator (IC). In the absence of DC, The ADC (Rev) will be the IC.

Responsibilities:

- Responsible for overall response Management.
- Appoint Persons who will serve to other position.
- Will establish initial action plan and approve all information to media.
- Will assure that contact and resources information has been established with outside agencies through Liaison Officer.
- Provision of resources as needed or requested by the Incharges.
- Report to the competent authorities through Information Officer.

b. Information Officer (IO):

Appointed or designated by the Chairman of Emergency Board or Incident coordinator.

Responsibilities:

- Update the Incident Commander regarding all new information.
- Ensure all news release have the approval of the Incident Commander.
- Issue an initial incident information report to the news media.

c. Liaison Officer (LO):

Appointed or designated by the Chairman of the Emergency Board or Incident coordinator.

Responsibilities:

- Liaison among different departments
- Help the Incident Commander to liaison with other agencies like Army, NDMA, etc.

d. Safety/Security Incharge:

The Head of Police Department will be responsible for safety and security of the area, Rescuers and public.

Responsibilities:

- Responsible for securing the area.
- Responsible for the safety of the area, all the Rescuers and public.
- Onsite, he will brief the crew about the hazards & safety Measures.
- Ensure that every one is wearing Personnel Protective Equipment (Helmet, masks etc).

e. Incharge Operations:

The Leading agency will be the in charge of the operations.

Responsibilities:

- Obtain briefing from Incident Coordinator.
- Manage and Coordinate among operation teams in incident.
- Determine needs to request the Incident Coordinator for additional resources.
- Assure team – Task force
- Report any substantial Development / Accidents to Incident Coordinator
- Maintain a log of all operation activities.

f. Incharge Logistics:

Appointed or designated by the Chairman of the Emergency Board or Incident Coordinator.

Responsibilities:

- Resources arrangement and resources Management.
- Will ensure that the required facilities, materials and resources are readily available for deployment to or at the incident.
- Effective planning to ensure adequate and effective availability of required equipment and resources and that the resource can respond in an organized manner.

PRIMARY FUNCTIONS:

- Supply of resources
- Ground support
- Catering

g. Incharge Finance:

Appointed or designated by the Incident coordinator.

Responsibilities:

- To arrange funds for the availability of logistics and other resources.

Checklist for Control Room:

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

Checklist for Relief Camp Incharge:

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

Role of Health Department

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

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

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

- To provide first aid to the injured people and arrange evacuation of patients for further assistance.
- Medical camps and mobile health teams should be arranged for prevention and control of communicable diseases, immunization and provision of essential drugs.
- Health department would make a roster of all medical officers and paramedics that would be deployed to these camps and teams.
- Drugs and other medical equipment should be available at all these camps and with mobile teams. The medicine should be for relevant flood related issues, **particularly Anti-snake venom, Anti-rabies.**
- The shelters or relief camps established by the district administration should have medical centers with ambulances and special facilities for women and children.
- An emergency control room will be established in the office of Directorate General Health Services and a representative of this emergency control room would be designated to PDMA's control room.
- A list of essential medicines would be prepared by the Health department and it would ensure that medicines and other resources are present in sufficient stocks in hospitals in disaster hit areas.
- Medical colleges may be involved to create Emergency Response teams
- Health department would also coordinate with international organizations such as WHO and UNICEF.
- Extensive disease surveillances in the disaster hit areas should be carried out warnings if needed be issued through the Disease Early Warning System.

- Medical teams and paramedic staff should be mobilized and deployed for rapid assessment and quick response in the affected areas.
- A contingency plan will be prepared and submitted regarding preparedness for any disaster or calamity.
- The National Disaster Management Authority has designated WHO as the key organization that will fill the gaps in the supply of medicines, rapid diagnostic kits, and vaccinations etc.
- The department would employ female health workers in emergency areas specially, for spreading awareness regarding health risks in a disaster and for any vaccination or immunization programme that may be needed during any emergency.
- A Health and Nutrition Cluster for overall management and oversight of Health department's disaster response would be formed at the Directorate General Health office.
- In case the medicine stocks or even the infrastructure is damaged due to floods, the department would draw up a plan for early recovery of health infrastructure and service delivery.

Civil-Military Coordination Mechanism

REQUEST FOR ASSISTANCE FROM MILITARY

Any requests for assistance from outside the region are to be made by the Chairman DDMA. Such requests are to be forwarded to the DG PDMA by the Chairman.

ROLE OF MILITARY

PRE

- Prepare necessary equipment, labour, transportation means and other material for emergency intervention
- Build emergency response team, who can tackle all kinds of disasters

DURING

- Assist people in safe evacuation;
- Provision of rescue services;
- Installation of temporary bridges, bunds etc
- Provision of medical care with the help of medical teams, including treatment at the nearest armed forces hospitals
- Establishment of relief camps
- Provision of logistic back up (aircrafts, helicopter, boats etc)

POST

- Construction and repair of roads and bridges with the help of engineering wing
- Cooperate and coordinate with District administration
- Facilitate other departments in capacity building in sector such as road construction, telecommunication, medical facilities, and other infrastructural development.

Volunteer Network

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

There are 1800 volunteers registered with the Civil Defense. District Officer (CD) remain 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	3	6
Urban Flooding	1	1	1
Flash Floods	0	0	0
Hill Torrent	0	0	0
Glacial Lake Outburst Flood (GLOF)	0	0	0
Landslide	0	0	0
Tornado	1	1	1
Earthquake	1	4	4
Drought	1	3	3
Epidemic	3	3	6
Fire Incidents	2	3	6
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	1	4	4
Environmental Hazards (industrial accidents, severe pollution etc.)	1	3	3

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*
- The district is prone to both natural and human induced hazards. This diverse profile includes hazards like riverine floods, Earthquakes, Epidemics, Pest Attacks, water born disease, hail Storms as well as industrial fires, sectarian violence, terrorism.

Natural Hazards

- ✓ Riverine Floods,
- ✓ Earthquake,
- ✓ Epidemics,
- ✓ Pest Attacks,
- ✓ Livestock Epidemics,
- ✓ Water born

Human Induced hazards

- ✓ Disease,
- ✓ Hail Storms Industrial Fires and industrial
- ✓ units related environmental
- ✓ pollution,
- ✓ Sectarian Violence,
- ✓ Terrorism

3. Response & Operational Capacity

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

(Rescue 1122)

Role & Responsibilities

Initial treatment and pre-hospital care of casualties

Initial triage of casualties

Transportation of injured

Safety of Persons in relation to fire prevention, fighting and recovery

Control of fire in designated fire zone

Control and cleanup of hazardous materials, spillage/release

Extrication of trapped Persons

Advice and directions on public safety/evacuation from fire/hazardous materials danger zone

Provision of specialist Personnel and equipment.

Provide management system for the deployment of public volunteers.

Assistance in rescue of trapped/stranded Persons

Augment emergency communication

Provision of trained search Personnel

Operational capacity

Human Resources (Staff)- 365

Volunteers- 10

Ambulances- 23

Fire vehicles- 06

Rescue Vehicle- 03

Motor Boats- 15

Life Jackets- 192

Tents- 290

(CIVIL DEFENSE)

Role & Responsibilities:

Provision of specialist Personnel and equipment.

Provision of Bomb disposal squad.

Operational capacity

Volunteers- 45

(POLICE SERVICE)

Role & Responsibilities:

Law and order

Traffic control

Crowd control

Control of evacuation, including registrations

Co-ordinate rescue of trapped/stranded Persons

Security of specific areas

Road blocks and diversions
Tracing of Persons
Augmenting emergency communications
Investigations of offences and accidents
Control of crime threatened site
Assistance in stock and infected material tracing

Operational capacity
Human Resources(Staff)- about 1631
Metal Detectors- 207
Total No. of Vehicles- 78

(HEALTH DEPARTMENT)

Role & Responsibilities:
Public health advice and warnings
Psychological and counselling services
Medical and health care for the victims
Triage/Treatment Point
Assist in transportation

Operational capacity
Beds-722 (250 in DHQ, Khanewal)
Staff- 179

(MEPCO)

Role & Responsibilities:
Control of electrical hazards
Cut-off power in any area in case of emergency or Fire
Restoration of power

(PTCL)

Role & Responsibilities:
Emergency telecommunications
Restoration of Telephone facilities

(NTC)

Role & Responsibilities:
Emergency telecommunications
Restoration of Telephone facilities

(SUI GAS)

Role & Responsibilities:
Control of gas hazards
Cut-off gas in case of emergency or fire Restoration of gas supply

(PROVINCIAL & HIGHWAY DEPARTMENT)

Role & Responsibilities:

Provision of heavy earthmoving equipment and Personnel as required

(PUBLIC WORKS AND SERVICES)

Role & Responsibilities:

Provision of engineering and logistical requirements to damaged areas.

Supplementary accommodation in schools for evacuation centres.

Operational capacity

Road Rollers- 11

Pick-ups- 2

Tractors /Trolley- 4

Staff- 189

(TMA)

Role & Responsibilities:

Provide Personnel, plant and equipment as necessary

Protection, maintenance and restoration of water and sewerage services

Monitor water quality

Implementation of safety standards of multi story buildings

Provision of Water Hydrants

Operational capacity

Dewatering Set- 16

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	15	15	0	0
OBM	15	15	0	3 25 HP
De-watering sets	16	16	2	0
Navigators	0	0	0	0
GIS devices	0	0	0	0
Life Jackets	192	192	0	-
Life Ring	15	15	0	10
Life Lines	5	5	0	0
Scuba diving suit with complete accessories	2	2	0	2
First Aid Kits	0	0	0	0
Rescue Bag	50	50	0	0
Safety Harnesses	20	20	0	0
Ambulances	21	21	0	0
Fire Brigade	7	7	0	0
Water Tanks / Bouzers	10	10	0	0
Extendable Ladders	0	0	0	0
Hydraulic Cutter	1	1	0	3
Sonar Rader	0	0	0	0
Jumping Sheet	12	12	0	0
Dumpers	0	0	0	0
Excavators	0	0	0	0
Cranes	0	0	0	0
Bulldozer	0	0	0	0
Boat Carrier/Trolleys	5	5	0	1
Pickups/Jeeps/4x4 vehicles/Mini Trucks	1	1	0	0
Searchlight	0	0	0	100
Tent	289	289	0	-
Mosquito Net	0	0	0	200
Plastic Mat	174	174	0	0
Blanket	190	190	0	0
Any other main relief/rescue equipment	0	0	0	0
Generator Sets	1	1	0	0
Gas-Cutters	0	0	0	0
Sonar Radars	0	0	0	0
Scuba Diving Set	2	2	0	0
Navigator/GPS Tracker	0	0	0	0
Hydraulic Cutter	1	1	0	3
Floating Rope	7	7	0	40

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.)*

Capacity gaps in the provision of rescue and response

More boats and OBMs are required to rescue the affected community

Navigators and GIS devices are required to identify exact location.

SCUBA sets and SONAR Radars are very useful equipments in flood

Obstacles to provide humanitarian assistance

Financial Constraints

Security Issues

Limited Mandate

No timely Information

MITIGATION STRATEGY

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

Hazards	Mitigate Actions	Responsible Department
Floods	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 Strengthen awareness program on disaster risk reduction at local level	The District Administration Rescue 1122 Local Govt. CO MC Provincial & District Highway Departments Department of Community Development Civil Defense Department of Public Works Police
Urban Flooding	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 Strengthen awareness program on disaster risk reduction at local level	The District Administration Rescue 1122 Local Govt. CO MC Provincial & District Highway Departments Department of Community Development Civil Defense Department of Public Works Police
Flash Floods		
Hill Torrent		

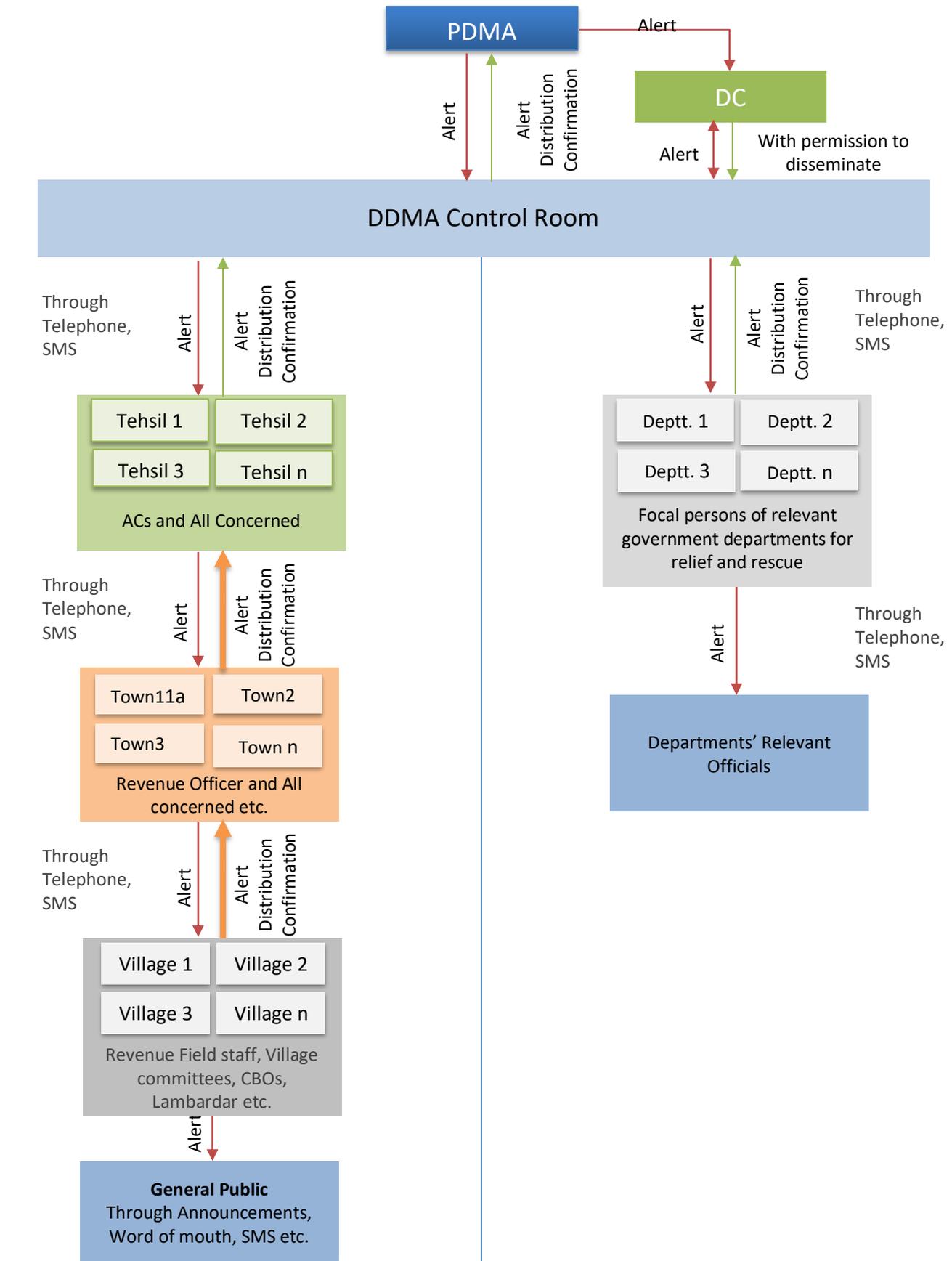
Glacial Lake Outburst Flood (GLOF)		
Landslide		
Tornado		
Earthquake	<p>Established the institutional and legal system for disaster management</p> <p>Prepare disaster management plans at various levels</p> <p>Conduct multi-hazard, vulnerability and risk assessment</p> <p>Establish multi-hazard early warning and evacuation systems</p> <p>Promotion of training, education and awareness in relation to disaster management</p> <p>Strengthen awareness program on disaster risk reduction at local level</p>	<p>The District Administration</p> <p>Rescue 1122</p> <p>Local Govt. CO MC</p> <p>Provincial & District Highway Departments</p> <p>Department of Community Development</p> <p>Civil Defense</p> <p>Department of Public Works</p> <p>Police</p>
Drought		
Epidemic	<p>Established the institutional and legal system for disaster management</p> <p>Prepare disaster management plans at various levels</p> <p>Conduct multi-hazard, vulnerability and risk assessment</p> <p>Establish multi-hazard early warning and evacuation systems</p>	<p>The District Administration</p> <p>Rescue 1122</p>

	<p>Promotion of training, education and awareness in relation to disaster management Strengthen awareness program on disaster risk reduction at local level</p>	<p>Local Govt. CO MC Provincial & District HighwayDepartments Department of Community Development CivilDefense Department of Public Works Police</p>
Fire Incidents	<p>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 Strengthen awareness program on disaster risk reduction at local level</p>	<p>The District Administration Rescue 1122 Local Govt. CO MC Provincial & District HighwayDepartments Department of Community Development CivilDefense Department of Public Works Police</p>
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	<p>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 Strengthen awareness program on disaster risk reduction at local level</p>	<p>The District Administration Rescue 1122 Local Govt. CO MC Provincial & District HighwayDepartments Department of Community Development CivilDefense Department of Public Works Police</p>
Environmental Hazards (industrial accidents, severe pollution etc.)	<p>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 Strengthen awareness program on disaster risk reduction at local level</p>	<p>The District Administration Rescue 1122 Local Govt. CO MC Provincial & District HighwayDepartments Department of Community Development</p>

		CivilDefense Department of Public Works Police
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EARLY WARNING

Information Flow Diagram



Alertness Levels

Following four levels alertness have been established:

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

Early Warning

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.

- RECEIPT OF WARNINGS:

Warnings of a natural disaster (e.g. cyclone, floods, etc) will be issued in the first instance by the Bureau of Meteorology and the Officer in Charge is responsible to ensure that the information is immediately forwarded to the Chairman of the District Emergency Board.

In the event of a manmade disaster for which a warning would not be issued by the Bureau of Meteorology, the designated control authority (Rescue 1122, Police etc) is to advise the Chairman.

- WARNING DISTRIBUTION:

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

- PUBLIC INFORMATION:

Public information is that information which is passed on to the public prior to, during, and after a disaster, such as warnings and direction. The Punjab Public Relation Department has the responsibility for the dissemination to the public of disaster management information as directed by the Chairman of the District Emergency Board or Incident Coordinator. When this plan is activated, the Chairman or Incident Coordinator is the official source of public and media information through his Information Officer. All outside media enquiries are to be directed to the Chairman. The Chairman is to arrange for media briefings and interviews with key Personnel.

- MEDIA OUTLETS:

- a) Radio: Both AM and FM strive to present the best Information for the public through this outlet.
- b) Television: All TV channels
- c) Newspapers: All local and National Newspapers

RESCUE STRATEGY

- *What actions will be taken as an immediate response to the situation? E.g. Evacuation, medical assistance*
- *Who does what and when? Responsible departments/agencies*
- *How and when Pakistan Army will be requested to support the rescue activities*
- *Camp sites identified? List at Annex I.*

ESTABLISHMENT OF INCIDENT COMMAND POST

ESTABLISHMENT OF LOGISTIC CELL

ESTABLISHMENT OF SEARCH & RESCUE TEAMS

SAFETY MEASURES

EVACUATION OF CASUALTIES ACCORDING TO TRIAGE

DATA COLLECTION

RECORD KEEPING

EMERGENCY MEDICAL TREATMENT

SAFE TRANSPORTATION TO HOSPITAL

POST OPERATION PROCEDURES

CONSOLIDATED REPORT TO PMC/DC

Role & Responsibilities of Rescue 1122

Initial treatment and pre-hospital care of casualties

Initial triage of casualties

Transportation of injured

Safety of Persons in relation to fire prevention, fighting and recovery

Control of fire in designated fire zone

Control and cleanup of hazardous materials, spillage/release

Extrication of trapped Persons

Advice and directions on public safety/evacuation from fire/hazardous materials danger zone

Provision of specialist Personnel and equipment.

Provide management system for the deployment of public volunteers.

Assistance in rescue of trapped/stranded Persons

Augment emergency communication

Provision of trained search Personnel

REQUEST FOR ASSISTANCE FROM ARMY

Any requests for assistance from outside the region are to be made by the Chairman DDMA.

Such requests are to be forwarded to the DG PDMA by the Chairman. The Tehsil municipal officer or the chairman

Tehsil Disaster Management Unit (TDMA) will make the request to the Chairman DDMA for Tehsil level disasters.

The Provincial Disaster management Authority will facilitate the accessing of contingency funds for disaster risk management and response in the region based on the modalities to be established and agreed upon with the approval of the DG PDMA.

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*

How damage and losses data will be collected and communicated to higher level?

Damages and loss data due to flash flooding shall be collected from concerned Assistant Commissioners, and communicated to Additional District Commissioner, Khanewal. Which is then forwarded to Deputy Commissioner, Khanewal for onward of submission to Board of Revenue Punjab.

How the priority needs (e.g. food, shelter, health etc.) will be determined?

People with Low income and large families, pregnant women, kids, the elderly and people with physically/mentally disability will be top priority

What activities will be carried-out to provide assistance to the affected population and by whom?

CRITERIA FOR EMERGENCY RELIEF ASSISTANCE

Emergency relief assistance for disasters/emergencies will be applied where it is determined that the capability of the affected community to assist itself is exceeded. Notification of such an event by the local services will initiate activation of the relief process. The priorities of emergency response will be life, shelter and basic needs (water, clothes, and food). Food relief constitutes items sufficient to meet 2600 calories (average calorie requirement per person per day) for 3 days. Damage Needs Assessment will be carried out within eight (8) hours of the event and subsequently within the next 72 hours to one week. Further needs assessment will depend on the nature of the disaster/emergency and level. As much as possible the emergency relief exercise will be completed within one to three weeks of the incident. The criteria for relief will be as follows:

Standardization of different packages/kits e.g. food, tents

PDMA has already issued the standardization of different packages/kits for food and tentage need 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.

Humanitarian Assistance monitoring mechanism - to avoid duplication and identify gaps

The affectees or occupier must show the following documents as evidence during the phase of Reconstruction:

- Proof of ownership of the house
- Proof of ownership of the land
- For repair and reconstruction of houses, building materials may be provided.
- Rental properties will be a low priority.
- The uninsured will take priority over the insured.
- Owners with more than one property will be low priority.
- Property under construction at the time of the event will be low priority

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. Girls Middle School Fazil Shah	100	X: 30.55 Y:71.83	16	Govt. Boys Priamry School Batti Bangla	50	X: 30.62 Y:71.80
2	Govt. Girls Middle School Fazil Shah	80	X: 30.55 Y:71.83	17	Govt. Boys High School Qatalpur	100	X: 30.66 Y:71.93
3	Govt. Boys Middle School Sahib Langra	80	X: 30.63 Y:71.75	18	Govt. Girls Priamry School Kunda Hiraj	50	X: 30.52 Y:71.42
4	Govt. Gils Middle School Muhammad Shah	80	X: 30.93 Y:71.33	19	Govt. Girls Priamry School Batti Bangla	200	X: 30.61 Y:71.35
5	Govt. Boys Middle School Muhammad Shah	80	X: 30.62 Y:71.44	20	Havail Mubrak Shah	200	X: 30.54 Y:71.21
6	Govt. Boys High School Sardarpur	100	X: 30.11 Y:71.22	21			X: Y:
7	Govt. Girls High School Sardarpur	100	X: 30.11 Y:71.22	22			X: Y:
8	Mumdal	200	X: 30.35 Y:71.29	23			X: Y:
9	Govt. Middle School Khokar Muhabbar Traggar	80	X: 30.35 Y:71.87	24			X: Y:
10	Govt. High School	100	X: 30.44 Y:71.65	25			X: Y:

	Salawahin Nau						
11	Govt. Middle School Jhok Azam	80	X: 30.44 Y:71.70	26			X: Y:
12	Govt. Boys Priamry School Gagra Qalandar	50	X: 30.71 Y:71.79	27			X: Y:
13	Govt. Boys Priamry School Khat pur Sanda	50	X: 30.50 Y:71.79	28			X: Y:
14	Govt. Boys Priamry School Kund Sargana	50	X: 30.68 Y:71.71	29			X: Y:
15	Govt. Boys Priamry School Khunda Hiraj	50	X: 30.55 Y:71.57	30			X: Y:

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

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Kabirwala			Mumdal ,Aheer Bella ,Binda Sargana ,Jamal K Traggar Khokhra Mohabat Traggar Jhowk Azam ,Dhunani ,Bella Shah Din ,Salar Wahain Nou Gaggra Qalandar Jahania Ahmad Abad Nou Ahamd Abad Kohna Khair Din Hamanayana Khair din hamanayana amada Muzaffar Garah Khair din Sani Sada HirajFazal Shah ,Lalera Kot Kahtia ,Mohri Jhandeer Sahab Langra ,Muhammad Shah Muhammad Pur Nashaib Chowki Mohan ,Chiragh Bella Chiragh Wali ,Baqar Abad Kund Sargana ,Faqeer Sial Jahana Mirali ,Khat Pur Sanda Chak Nourang Shah Peple Mirali Gul Pur Panjeeri ,8- Mundi Mansoor Mirali ,Sharif Faqeer Khunda Hiraj ,Qatal Pur Shakroo wala ,Barag ,Bati Noor Mirali ,Qadu Mirali Sai Mirali ,Havali Mubarak Shah Jamal K ,Burbagi
	Mian Channu			Rotla ,Boopri M. Rehman Farid K Kathia ,Shakoo K Dahr Mirza Kathia ,Boopri Noor Sultan ,Sati Buhwana Boopri Aya Khara ,Boopri Daad Kathia ,123/7-ER ,124/7-ER 125/7-ER ,1/8R ,3/8-R

				Jangle Maseet Wala Bonga MachiaChakra Bub Musa Ali Khakh ,Nusrat Pur Ghazi Panda ,jangle Mian Chingo Sultan Mehr Shah ,Kot Barkat Ali Bela Sikander ,Tara Pur Bela Punjuana ,Buknera Chughta ,Tulamba Azim Hiraj ,Ghous Pur Jaam DangraNooran Hiraj Manik Hiraj ,Raam Pur Kachi Wala ,52/15-L ,53/15-L 54/15-L ,56/15-L ,57/15-L 59/15-L ,60/15-L ,61-A/15-L 67/15-L ,Dulwan ,Bagdaad
Urban Flooding				
Flash Floods				
Hill Torrent				
Tornado				
Earthquake	Khanewal Kabirwala Main Channu Jahaninan			Khanewal Kabirwala Main Channu Jahaninan
Drought				
Epidemic	Khanewal Kabirwala Main Channu Jahaninan			Khanewal Kabirwala Main Channu Jahaninan

Environmental Hazards (industrial accidents, severe pollution etc.)	Khanewal Kabirwala Main Channu Jahaninan			Khanewal Kabirwala Main Channu Jahaninan
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ANNEX III: LIST OF HEALTH FACILITIES AND THEIR VULNERABILITY TO HAZARDS

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	BHU Bagar Sargana	Primary	Dr. M. Ijaz 0333-6217445	Earthquake, Epidemic & Flood
2	BHU Baqir Pur	Primary	Vaccant	Earthquak, Epidemic
3	BHU Chak No. 9 Ghagh	Primary	Dr. Ghazanfar Abbas 0331-5272103	Earthquak, Epidemic
4	BHU Chak 18/D	Primary	Dr. Maria Hussain 0307-4493758	Earthquak, Epidemic
5	BHU Chank No. 27 Ghagh	Primary	Dr. Bareera 0303-2230518	Earthquak, Epidemic
6	BHU Chak No. 22 Ghagh	Primary	Dr. Sajid Riaz 0336-6920969	Earthquak, Epidemic
7	BHU Chitor Garh	Primary	Dr. Ammara Batool 0304-7610554	Earthquak, Epidemic
8	BHU Dandi Sargana	Primary	Dr. Shahrooz Saqeer 0304-8614124	Earthquake, Epidemic & Flood
9	BHU Nawaz Wala	Primary	Dr. Ghulam Nabi Lodhi 0300-7891562	Earthquak, Epidemic
10	BHU Hashmat Mirali	Primary	Dr. Kashmala Javed 0300-8985469	Earthquake, Epidemic & Flood
11	BHU Hassan Abad Awal	Primary	Dr. Meemona Hameed 0317-6745314	Earthquake, Epidemic & Flood
12	BHU Ibrahim Pur	Primary	Dr. Abeerah Ishfaq 0323-6777425	Earthquak, Epidemic
13	BHU Jasoo Kanwan	Primary	Dr. Nazish Tanveer 0303-6611237	Earthquak, Epidemic
14	BHU Jodh Pur	Primary	Dr. Hafiz Aman Ullah 0334-3423588	Earthquak, Epidemic
15	BHU Kwari Bloch	Primary	Dr. Malka Malik 0321-6715545	Earthquak, Epidemic
16	BHU Kot Bahadur	Primary	Dr. Alam Raza 0311-4483649	Earthquak, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
17	BHU Kot Islam	Primary	Dr. M. Sohail Zafar 0300-6345485	Earthquake, Epidemic & Flood
18	RHC Khukar Hatta	Primary	Dr. Ifra Tahir 0308-7555110	Earthquak, Epidemic
19	BHU Kund Sargana	Primary	Dr. M, Shakeel Yousaf 0345-7313723	Earthquake, Epidemic & Flood
20	BHU Mahani Sial	Primary	Dr. Umar Draz 0331-8713451	Earthquak, Epidemic
21	BHU Mankot	Primary	Dr. Zain Sharif 0333-6190545	Earthquak, Epidemic
22	BHU Mari Sahu	Primary	Dr. Laraib Jameel 0304-2296201	Earthquak, Epidemic
23	BHU Mula pur	Primary	Dr. Adnan Rasool 0301-7524939	Earthquak, Epidemic
24	BHU Mubraik pur	Primary	Dr. Sidra Asghar 0307-2005588	Earthquak, Epidemic
25	BHU Mumdal	Primary	Dr. Fatima Naheed 0300-3579810	Earthquake, Epidemic & Flood
26	BHU Nuprang Shah	Primary	Dr. Massoma Ahmad 0345-8141920	Earthquake, Epidemic & Flood
27	BHU Qatalpur	Primary	Dr. Ansar Abbas 0307-6368327	Earthquake, Epidemic & Flood
28	BHU Sandian wala	Primary	Dr. Zain Ul Abdin 0334-7392471	Earthquak, Epidemic
29	RHC Sardarpur	Primary	Dr. Waqas Abid 0308-9003987	Earthquake, Epidemic & Flood
30	BHU Shamkot	Primary	Dr. Ammara Malik 0335-9969954	Earthquak, Epidemic
31	BHU Thul Najeeb wala	Primary	Dr. M. Asad Masood Bosan 0344-8797992	Earthquak, Epidemic
32	BHU Umeed Ghar	Primary	Dr. Javed A. Mehar 0333-6169107	Earthquak, Epidemic
33	RHC Kacha Khuh	Primary	Dr. M. Tariq 0300-6893021	Earthquake, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
34	RHC Makhdoom Pur	Primary	Dr. Wahab Akram 0322-6133703	Earthquak, Epidemic
35	RHC Thatha Sadiqabad	Primary	Dr. Altaf Hussain 0342-8679720	Earthquak, Epidemic
36	THQ Hospital Jahanian	Secondary	Dr.M. Umar Ghuri 0300-7180986	Earthquak, Epidemic
37	THQ Hospital, Kabirwala	Secondary	Dr. Amara 0303-0872497	Earthquak, Epidemic
38	RHC Abdul Hakim	Primary	Dr. Amjad Ali 0300-8397059	Earthquak, Epidemic
39	BHU 28/10R	Primary	Dr. M Furqan Shakeel 0307-4730101	Earthquak, Epidemic
40	BHU 157/10-R	Primary	Dr. Farhan 0305-7853088	Earthquak, Epidemic
41	RHC Haweli Koranga	Primary	Dr. M. Aamir 0300-9299098	Earthquak, Epidemic
42	RHC Sary Sidhu	Primary	Dr. Waseem Hayat 0300-6380044	Earthquak, Epidemic
43	BHU Kot Barkat Ali	Primary	Dr. Aamir Mehmood 0333-9349537	Earthquak, Epidemic
44	BHU Chak No. 7/8-AR	Primary	Dr. M. Ilyas Khan 0300-6893506	Earthquak, Epidemic
45	BHU Chak No. 1/8R	Primary	Dr. Usman Zia 0303-6499441	Earthquak, Epidemic
46	BHU Chak No. 18/8R	Primary	Dr. Junaid Iqbal 0344-7337646	Earthquak, Epidemic
47	BHU Chak No. 44/15-L	Primary	Dr. Farhan Sarwar 0333-6249524	Earthquak, Epidemic
48	BHU Chak No. 50/15-L	Primary	Dr. Nimra Khalid 0332-6274045	Earthquak, Epidemic
49	BHU Chak No. 88/15-L	Primary	Dr. Saqib Bashir 0333-6530959	Earthquak, Epidemic
50	BHU Chak No. 19/8-BR	Primary	Dr. Iqra Yaseen	Earthquak, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
51	BHU Chak No. 67/15-L	Primary	Dr. Hafiza Shamsa Kanwal 0308-3753814	Earthquak, Epidemic
52	BHU Chak No. 70/15-L	Primary	Dr. Shahzad Younis 0334-7335314	Earthquak, Epidemic
53	BHU Chak No. 88/10-R	Primary	Dr. Abdul Rehman 0315-7707107	Earthquak, Epidemic
54	BHU Chak No. 92/15-L	Primary	Dr. Usman Aslam 0321-7871739	Earthquak, Epidemic
55	BHU Chak No. 100/15-L	Primary	Dr. Abdul Wahab Zafar 0333-6241231	Earthquak, Epidemic
56	BHU Chak No. 115/15-L	Primary	Dr. Samual 0334-1732120	Earthquak, Epidemic
57	BHU Chak No. 121/15-L	Primary	Dr. Naveed Sultan 0346-8809171	Earthquak, Epidemic
58	BHU Chak No. 129/15-L	Primary	Vacant	Earthquak, Epidemic
59	BHU Chak No. 137/15-L	Primary	Dr. Hafiz M. Shahid 0308-9045067	Earthquak, Epidemic
60	BHU Chak No. 133/15-L	Primary	Dr. Ithamer Feroz 0333-8287227	Earthquak, Epidemic
61	BHU Chak No. 131/15-L	Primary	Dr. Aqeel Arshad 0334-6881009	Earthquak, Epidemic
62	BHU Ghos Pur	Primary	Dr. M Waheed Khalid 0301-6626597	Earthquak, Epidemic
63	BHU 106/10-R	Primary	Dr. Sira Baloch 0304-4607602	Earthquak, Epidemic
64	BHU 102/10-R	Primary	Dr. M Zeeshan Ashraf 0300-6185634	Earthquak, Epidemic
65	BHU Rahim Shah	Primary	Dr. Wasif Ijaz 0313-6003576	Earthquak, Epidemic
66	BHU 55/10-R	Primary	Dr. Qudsia 0309-7698003	Earthquak, Epidemic
67	BHU Chak No. 11/8-AR	Primary	Dr. Habib Ur Rehman 0333-6386795	Earthquak, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
68	THQ Hospital Mianchannu	Secondary	Dr. Naeer Ahmad Hiraj 0301-7812265	Earthquak, Epidemic
69	BHU Ali Shair Wahan	Primary	Dr. Aqsa Akram 0321-7327603	Earthquak, Epidemic
70	RHC Tulamba	Primary	Dr. M. Asif 0334-6232033	Earthquak, Epidemic
71	BHU Mian Pur	Primary	Dr. Hamna Siddique 0334-6416262	Earthquak, Epidemic
72	DHQ Hospital Khanewal	Secondary	Dr. Abdul Majeed 0301-7937939	Earthquak, Epidemic
73	BHU Bhero wal	Primary	Dr. M Idrees Bhuta 0303-6550988	Earthquak, Epidemic
74	BHU Chak No. 2/AH	Primary	Dr. Fakhar Alam 0313-6839344	Earthquak, Epidemic
75	BHU Chak No. 12/AH	Primary	Dr. Hina Iqbal 0300-5888071	Earthquak, Epidemic
76	BHU Chak No. 9/V	Primary	Dr. Maham Zainab 0334-6052818	Earthquak, Epidemic
77	BHU 136/10-R	Primary	Dr. M Anees Bhutta 0303-6559050	Earthquak, Epidemic
78	BHU Chak No. 36/10-R	Primary	Dr. Komal Shahid 0331-3335498	Earthquak, Epidemic
79	BHU Chak No. 44/10-R	Primary	Dr. Rehan Yousaf	Earthquak, Epidemic
80	BHU Chak No. 74/15-L	Primary	Dr. Ansar Javaid 0342-7229607	Earthquak, Epidemic
81	BHU Chak No. 58/10-R	Primary	Dr. Shahid Parveez 0300-7313931	Earthquak, Epidemic
82	BHU Chak No. 67/10-R	Primary	Dr. Samia Pervaiz 0321-6349410	Earthquak, Epidemic
83	BHU Chak No. 30/10-R	Primary	Syed M Amad Imtiaz 0332-6099662	Earthquak, Epidemic
84	BHU Chak No. 79/10-R	Primary	Dr. Ifra Ahmad 0332-6641854	Earthquak, Epidemic
85	BHU Chak No. 76/10-R	Primary	Dr. Muneesa Tahir 0333-6033165	Earthquak, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
86	BHU Chak No. 171/10-R	Primary	Dr. Waqar Raza 0333-7860609	Earthquak, Epidemic
87	BHU Chak No. 92/10-R	Primary	Dr. Jawad Tahir 0305-4434191	Earthquak, Epidemic
88	BHU Chak No. 7/9-R	Primary	Dr. M Hassan Arif 0321-6595665	Earthquak, Epidemic
89	BHU Chak No. 14/8-R	Primary	Dr. Arifa Bibi 0345-6170572	Earthquak, Epidemic

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	Enrollment	Incharge Name	Contact Number
1	GGMS Salarwahin Naw	Middle	230	Shahnaz Akhtar	0331-7107729
2	GGMS Mumdal	Middle	184	Rabia Wahid	0302-7446967
3	GGMS Kassi Jandeer	Middle	151	Asma Noshin	0331-8727287
4	GGPS Kund Sargana	Primary	102	Asma Safdar	0302-7828244
5	GGPS Faqir Sial	Primary	70	Jamila Iram	0300-8105325
6	GGPS Basti Arain	Primary	82	Vacant	
7	GGPS Sahib Langra	Primary	25	Nasreen Akhtar	0336-6397304
8	GGMS Pull Ghmoo wali No. 1	Middle	153	Iram Shahzadi	0304-7119768
9	GPS Basti Nikyana	Primary	146	Atta U Mohsin	0306-7600624
10	GGPS Basti Nikyana	Primary	79	M. Ashraf	0346-7931745
11	GPS Shkroo wala	Primary	67	Mazhar Hussain	0345-4078824
12	GPS Jahan Mirali	Primary	45	M. Safdar	0301-7469319
13	GPS Sahib Langra	Primary	69	Mazhar Abbas	0304-7781781
14	GPS Kot Khatia	Primary	116	Fakhar Abbas	0343-5817781
15	GMS Muhammad Shah	Middle	95	Ghulam Sarwar	0345-2397556
16	GPS Muhammad pur Nashib	Primary	77	Nazar Abbas	0302-4929616
17	GPS Nusrat pur	Primary	261	Barkat Ali	0347-8869224
18	GPS Naseer Kathia	Primary	59	Nazir Ahmad	0306-8775230
19	GPS Saleem K Dahar	Primary	51	Bagh Ali	0304-6481519
20	GPS Buknairh	Primary	128	Intizar Hussain	0307-7899407
21	GPS Shakroo	Primary	167	Abdul Rehman	0342-7306526
22	GMPS Rampur Mmagha	Primary	249	Shaheen Akhtar	0300-8935044
23	GMPS Musa Ali Khakh	Primary	161	Ghulam Ayesha	0300-3512642
24	GGPS Sarwar K Dewaan	Primary	64	Sumira Yousaf	0304-7577369
25	GGPS 1/8R Norang Abad	Primary	82	Shahista Anwar	0340-1060906
26	GMPS Boopri Aya Khera	Primary	180	Saira Tarimzi	0304-7607279

27	GGPS 123/7-R	Primary	121	Zilly Rubab	0313-8083592
28	GMPS Azeem Hiraj	Primary	80	Kousar Jabeen	0311-8131247

ANNEX V: LIST OF INDUSTRIES WITH THEIR RISK LEVEL

S#	Industry Name	Location	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
1	SONEY FOOD INDUSTRY	CHAK 15V KABIRWALA ROAD	Biological	065-2552775	LOW	FIRE, EARTHQUAKE & EPIDEMIC
2	UNILIVER PAKISTAN LTD TEA FACTORY	CHAK NO. 88- A/10-R, KHANEWAL	Biological	065-2556311-2	LOW	FIRE, EARTHQUAKE & EPIDEMIC
3	CONCRETE SLEEPER FACTORY PAKISTAN RAILWAY	KHANEWAL LAHORE ROAD	Chemical	065-9200157, 0333-9221973	LOW	FIRE, EARTHQUAKE & EPIDEMIC
4	CRECENT TUFF TILES	KHANEWAL	Chemical	0300-7898843	LOW	FIRE, EARTHQUAKE & EPIDEMIC
5	NAMCO ASSOCIATES (PVT) LTD	MULTAN- VEHARI ROAD JAHANIAN	Chemical	0300-7284074, 0332-9045129, 0341-4511307	LOW	FIRE, EARTHQUAKE & EPIDEMIC
6	SEHAR BOARD (PVT) LTD.	G.T. ROAD MUSA VIRK MIAN CHANNU	Chemical	065-2665944	MEDIUM	FIRE, EARTHQUAKE & EPIDEMIC
7	AFRIDI COLD STORAGE	CHAK NO.21/8- R TULAMBA ROAD, MIANCHANNU	Chemical	Mehboob Khan Afridi 0306-7826270	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
8	AFZAL COLD STORAGE	GT ROAD MIAN CHANNU	Chemical	065-2663236	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
9	AHMAD COLD STORAGE	CHAK NO.44/15-L GT ROAD MIAN CHANNU	Chemical	M. Ahmad 065-2662370	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
10	AL-FATEH COLD STORAGE	JINDALI ROAD MIANCHANNU	Chemical	M. Riaz 065-2660393 0300-6896815	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
11	ALLAH DITTA COLD STORAGE	CHAK NO.130/15-L FAISAL TOWN MIAN CHANNU	Chemical	M. Amin 065- 266044	HIGH	FIRE, EARTHQUAKE & EPIDEMIC

S#	Industry Name	Location	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
12	AL-MAKKA COLD STORAGE	GT ROAD MIAN CHANNU	Chemical	Abdul Rasheed 065-2663939	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
13	AWAIS COLD STORAGE	G.T. ROAD MIAN CHANNU	Chemical	M Rafique 065- 2660299	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
14	BAJWA COLD STORAGE	GHARA MORE ROAD	Chemical	065-2670066	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
15	BATYALA COLD STORAGE (AL- KAREEM)	G.T. ROAD MIAN CHANNU	Chemical	Fazal Kareem 2661375	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
16	BHATTI COLD STORAGE	G.T. ROAD MIAN CHANNU	Chemical	N/A	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
17	CHAUDHRY COLD STORAGE	BY-PASS ROAD MIAN CHANNU	Chemical	0300-6891671	HIGH	FIRE, EARTHQUAKE & EPIDEMIC
18	NESTLE MILK PAK LTD	KABIRWALA KHANEWAL ROAD 6 KM	Biological	065- 2411433-6	LOW	FIRE, EARTHQUAKE & EPIDEMIC
19	JADEED GROUP OF INDUSTRIES PVT LTD	6 KM KABIRWALA ROAD KHANEWAL	Biological	065-2400731-37, 051-4581280-83, www.jadeedfarms.com	MEDIUM	FIRE, EARTHQUAKE & EPIDEMIC
20	ROUSH PAKISTAN POWER LTD	ABDUL HAKIM	Chemical	065-2441572, www.roushpak.com	MEDIUM	FIRE, EARTHQUAKE & EPIDEMIC

ANNEX VI: LIST OF NGOS WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Anjuman Samaji Behbood	Local	Khanewal	Women Development	Zeeshan Aftab Daha	0321-6333363
2	Al-Falah Progresive Society	Local	Khanewal	Welfare of Women & Children	Saleem Raza Sial	0300-6885242
3	Anjuman Behbood-e-Mareezan	Local	Khanewal	Patient Welfare	Mian Irshad-UI-Haq	0300-6881647
4	Bismilla Welfare Society	Local	Khanewal	Women Welfare	M. Akram Khurram	0300-7890460
5	Pakistan Lines Youth Council	National	Khanewal	Welfare of Women, Children & Disable	Dr. Qasir Javed	0333-6212786
6	Social Development Foundation	Local	Khanewal	Welfare of Women, Children & Disable	Zulfiqar Ali	
7	Anti T.B. Association, Khanewal	National	Khanewal	Patient Welfare	Habib Ullah Khan	0332-7863037
8	Yasir Development Center	Local	Khanewal	Welfare of Women, Children & Disable	Malik Israr Ahmed	0333-4265066
9	Rural Development Orginaztion	Local	Khanewal	Welfare of Women, Children & Disable	Naeem Waris	0345-7381756
10	Rohsan Rahian Orginaztion	Local	Khanewal	Welfare of Women	Bismillah Iram	0300-6892396
11	Saiban Development Orginaztion	Local	Khanewal	Welfare of Women	Nighat Mughal	0321-7880201
12	Al-Quraish Welfare Society	Local	Khanewal	Patient Welfare	Haji Irshad	0306-7592685
13	Peoples Development Organization	Local	Khanewal	Welfare of Women	Nishat Ahmed	0345-7383699

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.
14	County Development Organization	Local	Khanewal	Patient Welfare	Sarfraz Ghori	0333-6212834
15	Ehsas Human Development Foundation	Local	Khanewal	Patient Welfare	Ghulam Rasool	0300-8391325
16	Youth Development Foundation	Local	Khanewal	Welfare of Women	Zarshtia Kiran	0302-4914489
17	Tasmia Welfare Education Development Organization	Local	Khanewal	Welfare of Women & Children	Zahida Perveen	0300-6887204
18	Pak Social Welfare Society	Local	Khanewal	Welfare of Women & Children	Malik Sher Zaman	0302-7818400
19	Galaxy Women Development Foundation	Local	Khanewal	Welfare of Women	Kehksha Ayaz Shah	
20	Sudhar Social Welfare Society	Local	Khanewal	Welfare of Women, Children	Kaleem Akhtar	0331-5190941
21	Jinnah Welfare Foundation	Local	Khanewal	Welfare of Women, Children & Disable	Farooq Ahmed	0306-7838199
22	Awami Welfare Society	Local	Khanewal	Welfare of Women, Children	Ayyaz Khan	0300-6888746
23	Muhmammadia Welfare Society	Local	Khanewal	Welfare of Women, Children	Ashiq Hussain	0345-4210535
24	New Hope Welfare Organization	Local	Khanewal	Welfare of Women	Ammimunal	0315-3860060
25	Good Shpered Welfare	Local	Khanewal	Welfare of Women	Qamar Zia	0345-7378831
26	Ladies Social Welfare Society	Local	Khanewal	Welfare of Women, Children	Rubina Wahla	0300-3524848

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.
27	Idare Khidmat E Khilq	Local	Khanewal	Patient Welfare	Mian Hafeez Ahmed	0300- 8984976

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS/ DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Omar Iftikhar Sherazi (ADC-R)	065-9200069	-	0322-8043632
2	Commissioner				
3	RPO				
4	DC	Salman Khan Lodhi	065-9200032	065-9200031	0304-0920082
5	DPO	Syed Nadeem Abbas	065-9200175	065-9200173	0309-7771008
6	ADC (G)	M. Akhtar Mandeyra	065-9200242		0332-7014312
7	DEO Rescue 1122	Dr. Khalid Mehmood	065-9200365		0300-0301122
8	DO Civil Defence	M. Shukaib	065-9200293		0300-6305847
9	SNA	Shahid Rizwan	065-9200036		0333-6469884
10	AC Khanewal	Bakhtiar Ismail	065-9200242		0332-2305713
11	AC Kabirwala	M. Nadeem Dehar	065-2410611		0300-8730299
12	AC Mainchannu	Rameez Zafar	065-2660590		0333-6936292
13	AC Jahanian	M. Akmal	065-2210303		0323-4444216
14	AC -				
15	AC -				
16	Tehsildar Khanewal	Javeed Mumtaz			0300-759777
17	Tehsildar Kabirwala	Mazhar Abbas Raan			0300-6365660
18	Tehsildar Mianchannu	Rana Shafiq			0301-8684327
19	Tehsildar Jahanian	Tahir Abbas			0300-4609317
20	Tehsildar -				
21	Tehsildar -				
22	Chief Officer Khanewal	Iftikhar Bangish	065-9200055		0301-7823710
23	Chief Officer Kabirwala	Ghulam Jillani	065-2411776		0333-1551156
24	Chief Officer Mianchannu	Khuda Dad Tarrar	065-2554200		0300-4630085
25	Chief Officer Jahanian	Ali Raza	065-2211916		0311-6577684
26	Chief Officer Abdul Hakim				
27	Chief Officer Tulamba				
28	CEO Education	M. Altaf	065-9200232		0302-6582056

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
29	Chief Engr. Irrigation				
30	XEN Irrigation	Umaeed Bin Manzoor	065-9200135		0300-4796743
31	XEN Buildings	Majid Hameed	065-9200266		0303-7454242
32	XEN Highways	M. Shahzad	065-9200295		0300-7193716
33	DO Agriculture	Iqbal Khan Niazi	065-9200060		0302-8736600
34	CEO Health	Dr. Abdul Majeed	065-9200137		0301-7937939
35	DHO	Dr. Fazal Ur Rehman Bilal	065-9200141		0300-6895863
36	Incharge DHQ Hospital	Dr. Nabeel Saleem	065-9200210		0306-6029789
37	Veterinary Officer	Dr. M. Talib	065-9200294		0334-6806850
38	XEN Head Sidhnai, Abdul Hakim	M. Adnan			0300-1030530
39	SDO Head Sidhani Abdul Hakim	M. Imran			0305-9363007
40	XEN Shujabad Canal	Aftab Asfand Yar Bhatti	061-9200699		0300-0762038
41	SDO Shujabad Canal	Adnan Hayat			0303-8838025

ANNEX VIII (A): LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	M Tanveer S/O M Afzal	36103-1709279-9	Chak # 173/10-R Khanewal	0306-8460347	AB+	One Day
2	Fakhar Hayat S/O Haq Nawaz	36103-7697320-7	Chak # 173/10-R Khanewal	0307-7070097	O+	One Day
3	M Shahbaz S/O Abdul Gafoor	36103-6336323-5	Chak # 92/10-R Khanewal	0341-7415791	AB+	One Day
4	Mazhar Ali S/O M Zafar	36103-8816866-9	Chak # 73/10-R Khanewal	0341-9763241	A-	One Day
5	Rao Iftikhar S/O Manzoor Khan	36103-0480390-5	Khurram Pura Khanewal	0346-7195498	B+	One Day
6	M Aamir S/O M Shafi	36103-5646900-1	Fazal Colony Khanewal	0341-3644857	AB+	One Day
7	Asghar Ali S/O Mumtaz Ahmad	36103-4648981-9	Chak # 73/10-R Khanewal	0345-7019190	AB+	One Day
8	Noman Khalil S/O M Khalil	36103-7682922-7	Khurram Pura Khanewal	0342-6268647	B+	One Day
9	Imran Shakoor S/O Abdul Shakoor	36103-0552827-9	Khurram Pura Khanewal	0347-3432043	O+	One Day
10	M Zulfiqar S/O Manzoor Khan	36103-3815980-5	Khurram Pura Khanewal	0343-7330060	B+	One Day
11	Shafiq Ashraf S/O M Ashraf	36103-3946023-9	Basti Nizam Abad Khanwal	0302-7557573	O+	One Day
12	Sajjad Ali S/O Mubarak Ali	36104-6012703-1	Kot Berbal Khanewal	0301-6993969	O-	One Day
13	M Haneef S/O Shab ud Deen	36103-2145162-7	Jaswant Nagar	0315-6222947	A+	One Day
14	M Rizwan S/O M Hanif	36103-3517911-9	Chak # 88/10-R Khanewal	0344-7233303	A+	One Day
15	M Imran S/O M Asif	36103-7446768-9	Old Khanewal	0304-7370654	AB+	One Day
16	M Ayoub S/O M Ibrahim	36103-5740755-7	Basti Nizam Abad Khanwal	0346-8176016	AB+	One Day
17	M Bilal S/O Zahoor Hussain	36103-0572393-7	Chak # 166/10-R Khanewal	0342-7048825	AB+	One Day
18	Naeem Haider S/O M Aslam	36103-4260047-5	Chak # 74/10-R Khanewal	0305-6573007	B+	One Day

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
19	Fayyaz Mahmood S/O Manzoor Ahmad	36103-8639146-7	Block No 13 H # 32 Khanewal	0345-1610743	O+	One Day
20	Abid Mahmood S/O Manak Ali	36103-7992094-1	Nanuk Pur Khanewal	0313-6005508	B-	One Day
21	Alam Shar S/o Falak Shar	36103-5493382-5	Chak # 74/10-R Khanewal	0300-6876273	A+	One Day
22	Talib Hussain S/O M Bakhas	36103-5707590-7	Old Khanewal	0304-5043380	O-	One Day
23	Mukhtyar Hussain S/O Talab Hussain	36103-8069237-3	Old Khanewal	0308-6234494	AB+	One Day
24	M Nawaz S/O Ghulam Fareed	36103-7383399-5	Old Khanewal	0334-6854162	AB+	One Day
25	M Iqbal S/O M Yameen	36103-0109571-1	Chak # 67/10-R Khanewal	0307-6490901	B+	One Day
26	Zahoor Hussain S/O Muhabat Ali	36103-9601736-7	Near Passco Gowdon Khanewal	0301-4039502	AB+	One Day
27	Waleed Ahmad S/O Sagheer Ahmad	36103-7396511-1	Jaswant Nagar	0321-7370774	B+	One Day
28	Abdul Gafoor S/O M Ramzan	36103-7692697-7	Chak # 73/10-R Khanewal	0302-4416321	A+	One Day

ANNEX VIII (B) : LIST OF SWIMMERS/DIVERS

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	M.Hussnain	36102-8502337-3	Chah Chught Wala, Tehsil Kabirwala	0301-2716530	B+	One Day
2	Saleem Nazar	36102-5864300-7	Qatal Pur, Tehsil kabirwala	0346-7217138	AB+	One Day
3	M. Usman Nawaz	36102-7467136-1	Basti Roshan Pur, P/O Dharam Pur, Abdul Hakim Tehsil	0332-1641122	O+	One Day
4	M. Rizwan	36102-0838548-5	Muhala Muhajreen Kukkarhatta , Tehsil Kabirwala	0301-7406974	O+	One Day
5	Rana Shoukat	36102-1895994-7	Chah Manglani wala, P/O Kabirwala	0302-4575940	AB+	One Day
6	M. Shahbaz	36102-1887370-5	Chah Deenay Wala, Near TMA Office Kabirwala	0300-7890270	B+	One Day
7	Asif Raza	36102-9573362-9	Nabi Pur, Kabirwala	0300-4677685	B-	One Day
8	Sajid Farooqi	36102-8347506-9	Peer Kabir Street, Ward no, 11, Kabirwala	0301-7826423	AB+	One Day
9	Khadim Hussain	36102-3358282-5	Moza Javahri Hashmat Mirali, Kabirwala	0301-7818634	O+	One Day
10	Saif Ur Rehman	36102-1776953-5	Choperhatta, Moza Chak Sultan, Basti islam, kabirwala	0301-6512791	O+	One Day
11	M.Jamshed	36102-7833958-3	Basti Saydan, Jhung Road, Kabirwala	0307-76811211	O+	One Day
12	Yahya Khan	36102-7010029-9	Basti Assy Wala, P/O Chack Haider Abad, Tehsil Kabirwala	0301-7515287	O+	One Day
13	Khalid Mehmood	36104-1923275-9	Basti Meharabad, Mian Channu	0343-4419271	O+	One Day
14	M. Naeem-ul-Haq	36104-8756900-1	Chak No. 115/15-L, Mian Channu	0300-6885715	O+	One Day
15	M. Naveed Rafique	36104-0742723-5	Chak No. 14/8-BR, Mian Channu	0335-0201122	O+	One Day
16	M. Imran	36104-6834046-9	Chak No. 19/8-BR, Mian Channu	0334-6234652	O-	One Day

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
17	M. Ishfaq	36104-6937071-3	Chak No. 115/15-L, Mian Channu	0308-3990115	AB+	One Day
18	Munawar Danial	36104-2967163-1	Chak No. 133/16-L, Amrat Nagar Mianchannu	0300-5458962	A+	One Day
19	Zafar Iqbal	36104-0634192-3	Chak No. 108/15-L, Mian Channu	0300-4144108	AB+	One Day
20	M. Sabir	36102-9980502-3	Chak No. 92/10-R, Khanewal	0301-5993670	O+	One Day
21	M. Javed Afzal	36102-9904055-7	Makhdoompur Pohoraan, Tehsil Kabirwal, Khanewal	0301-7811049	B+	One Day
22	Shahzad Anwar	36103-0601669-1	House No. 1212, Colony No. 3, Makki Chowk, Khanewal	0345-7353889	O+	One Day
23	M. Tanveer	36102-0266907-9	5 Kassi, Kabirwala	0301-2761918	AB+	One Day
24	M. Imran	36102-6796481-5	Khayaban Colony, Khanewal	0306-6901990	O+	One Day
25	M. Naeem	36102-6904003-3	Kohi wala Tehsil and District Khanewal	0345-5703859	B+	One Day
26	M. Saqib Imran	36104-4777461-3	Chak No. 100/15-L Sabqa Tehsil Mainchannu	0302-4285778	O+	One Day
27	M. Shahzad	36103-1678391-9	Basti Fareed Abad, Street No. Sham kot road, Near Railway line khanewal	0300-9804237	A+	One Day
28	Arshad Iqbal	36103-5782800-1	Basti Zahoorabad near Ashraf Goods Khanewal	0307-5904706	O+	One Day

ANNEX IX: POLITICAL CONSTITUENCIES

National Constituencies				Provincial Constituencies			
Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number	Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number
NA-150	Syed Fakhar Imam	PTI	0302-8635067	PP-202	Syed Khawar Ali Shah	PTI	0300-873180
				PP-203	Syed Hussain Jahania Gardezi	PTI	0300-8424530
				PP-204	Hamid Yar Hiraj	PTI	N/A
				PP-205	Rana M. Saleem	PML(N)	N/A
NA-151	M. Khan Daha	PML(N)	0300-844499	PP-206	Abbas Ali Shah	PTI	N/A
NA-152	Zahoor Hussai Qureshi	PTI	0345-4444744	PP-207	Rana Babar Hussain Abid	PTI	0300-7879131
NA-153	Ch. Iftikhar Nazir	PML(N)	0302-8471212	PP-208	M. Faisal Khan Niazi	PML(N)	0300-8678841
				PP-209	Atta Ur Rehman	PML(N)	0300-8639191

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

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

Town Level

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

S#	Tehsil	TC	Chair	Chair Contact	Vice Chair	VC Contact
16						
17						
18						
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25						
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46						

ANNEX XI: DATA COLLECTION PROFORMAS

P1: House Damage Assessment

District: _____

Date: _____

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

P2: Deceased Person Reporting Proforma

District: _____

Date: _____

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

P3: Injurd Person ReposrtingProforma

District: _____

Date: _____

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

P4: Cattle Head Perished

District: _____

Date: _____

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

P5: Crop Damages

District: _____

Date: _____

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

P8: Relief camp registration Proforma

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

District: _____

Date: _____

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

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

District: _____

Date: _____

S#	Name of NGO	Local /INGO	Relief activity	Relief camp if any	Focal person in the district	Registered with PDMA	Foreigners to be visiting or not.
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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	33,650
3	Jhang Division	Jhang Flood Protection Bund	71000
4	Qadirabad Barrage Division	Left Marginal Bund	64938
5	-do-	Right Marginal Bund	106300
	Total in feet.		296888
	Total in Miles.		56.22
BAHAWALPUR ZONE			
1	Punjad Head works Division	Right Marginal Bund	70554
2	-do-	Left Marginal Bund	65169
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	115300
	Total in feet.		266,023
	Total in Miles.		50.23
MULTAN ZONE.			
1	Trimmu Division	Right Marginal Bund	54,000
2	-do-	Left Marginal Bund	46,000
3	Sulemanki Division	Left Marginal Bund	47,500
4	-do-	Right Marginal Bund	63,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	48,000
6	-do-	Akbar Flood Bund	21,710
	Total in feet.		280,210
	Total in Miles.		53.07
D.G.KHAN ZONE			
1	Taunsa Barrage	Right First Defence Bund	23,500
2	-do-	Left Marginal Bund	133,200
3	-do-	Shahwala Groyne	66,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	188000
5	-do-	Doaba Flood Bund.	19000
6	-do-	Khangarh Flood Bund	153,000
7	-do-	Shehr Sultan Flood Bund	134000
8	Jampur Construction Division	Jampur Flood Bund	170720
9	-do-	Laskani Flood Bund	26365
	Total in feet.		913,785
	Total in miles		173.06

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

INFORMATION REGARDING FLOOD BUND CATEGORY B

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

1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	Total in feet.		190,000
	Total in miles		35.98
D.G.KHAN ZONE			
1	Taunsa Barrage	-do-	80,000
2	Kot Adu Canal Division	-do-	90,000
3	Muzaffargarh Canal Division	-do-	180,000
4	River Diversion Division	-do-	80,000
5	Jampur Construction Division	-do-	140,000
6	D.G.Khan Construction Division	-do-	60,000
	Total in feet.		630,000
	Total in miles		119.32
LBDC (IP)			
1	Balloki Headworks Division	-do-	40,000
2	Okara Division	-do-	40,000
3	Sahiwal Division	-do-	20,000
	Total in feet.		100,000
	Total in miles		18.94
LAHORE ZONE			
1	Flood Bund Division Narowal	-do-	40,000
2	Pasrur Link Division Sialkot	-do-	10,000
3	Chakbandi Division	-do-	20,000
4	Marala Division UCC	-do-	50,000
5	Lahore Drainage Division	-do-	80,000
6	Kasur Division	-do-	80,000
7	Gujranwala UCC	-do-	100,000
8	Rachna Drainage	-do-	42,000
	Total in feet.		422,000
	Total in miles		79.92
PMO BARRAGES			
1	Jinnah Barrage	-do-	20,000
	Total in feet.		20,000
	Total in miles		3.79
	Grand Total (in miles)		350.76

ANNEX XIV: RIVER DISCHARGE RATES

River	Gauge Site	Designed Capacity (lac Cs)	Flood Limits in Lac Cs.				Exp. High
			Low	Med:	High	Very High	
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	9.5	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
CHENAB	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
	Marala	11	1	1.5	2	4	6
	Khanki	11	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	8.75	1.5	2	3	4.5	6
	Punjnad	7	1.5	2	3	4.5	6
RAVI	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4.25	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
SUTLEJ	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.