

DISTRICT DISASTER MANAGEMENT PLAN 2025

Division: Multan

District: Khanewal



Road Accident at NHA & MP



Fire case at Kabirwal



Floods Evacuation



Mini Van plunge into Malsi Link Cannal

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Hill Torrent

Estimated number of people at risk of **hill torrent** in 2025



Risk: Low

Flood

Estimated number of people at risk of Floods in 2025



Risk: Medium

Earthquake

Estimated number of people at risk of earthquake in 2025



Risk: High

Epidemic

Estimated number of people at risk of epidemic in 2025



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	3,364,077
2.	No. of Tehsils	4
3.	No. of UCs	135
4.	No. of Revenue Estates	679
5.	Population Density (people per km ²)	604
6.	Family Size	7
7.	Pop Growth Rate	2.39
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)
3,364,077	100,922	908,301	1,121,068	1,009,223	134,563

Source/Note: Click here to enter text.

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
526,196	78,959	447,237

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.

TABLE 12 : LITERACY RATE, ENROLMENT AND OUT OF SCHOOL POPULATION BY SEX AND RURAL/URBAN, CENSUS-2023

INDICATORS	TOTAL				RURAL				URBAN			
	TOTAL	MALE	FEMALE	TRANSGENDER	TOTAL	MALE	FEMALE	TRANSGENDER	TOTAL	MALE	FEMALE	TRANSGENDER
1	2	3	4	5	6	7	8	9	10	11	12	13
KHANEWAL DISTRICT												
Population >=5	2,888,710	1,487,371	1,400,953	386	2,262,501	1,166,836	1,095,519	146	626,209	320,535	305,434	240
Population >=10	2,456,148	1,263,736	1,192,026	386	1,914,128	986,351	927,631	146	542,020	277,385	264,395	240
Literate >=10	1,497,449	875,310	621,982	157	1,077,077	647,316	429,717	44	420,372	227,994	192,265	113
Literate %	60.97	69.26	52.18	40.67	56.27	65.63	46.32	30.14	77.56	82.19	72.72	47.08
Ever Attended	1,778,384	1,027,006	751,237	141	1,295,570	765,228	530,298	44	482,814	261,778	220,939	97
Primary Completed	298,220	164,516	133,658	46	232,592	130,192	102,388	12	65,628	34,324	31,270	34
Enrolment Primary	424,478	226,267	198,211	-	331,374	176,636	154,738	-	93,104	49,631	43,473	-
Enrolment Middle	176,089	96,169	79,920	-	133,370	74,836	58,534	-	42,719	21,333	21,386	-
Enrolment Matric	95,609	49,565	46,043	1	69,105	36,467	32,637	1	26,504	13,098	13,406	-
Enrolment Intermediate	45,616	23,986	21,628	2	29,256	16,017	13,238	1	16,360	7,969	8,390	1
Enrolment Graduation above	37,009	17,642	19,366	1	20,342	10,286	10,056	-	16,667	7,356	9,310	1
Never to School (all)	1,110,326	460,365	649,716	245	966,931	401,608	565,221	102	143,395	58,757	84,495	143
Drop Out (5 - 16)	91,465	50,238	41,216	11	75,254	40,597	34,652	5	16,211	9,641	6,564	6
Never to School (5-16)	178,554	81,858	96,681	15	161,126	73,954	87,160	12	17,428	7,904	9,521	3
Out of School Children (5-16)	270,019	132,096	137,897	26	236,380	114,551	121,812	17	33,639	17,545	16,085	9

Government Schools

		Schools	Enrollment
Total/ Overall		1,416	396273
Boys	Primary	509	63207
	Middle	189	16466
	High	144	90913
Girls	Primary	302	41003
	Middle	145	42831
	High	123	89242
Co-Education	Primary	-	-
	Middle	-	-
	High	-	-
Special Education		5	931

Private Schools

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

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	13	1	-	10	3	26
No of Students	14,670	476	-	1,020	59	16,281

Health Facilities

Particulars	Primary	Secondary	Tertiary	Total
No. of Facilities	101	4	-	212
Annual OPDs	153,167	876,351	-	1029518
No of beds	684	485	-	2082
Doctors Available	90	118	-	355
Paramedical staff	631	419	-	1533
Ambulances available	-	-	-	-

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.)
1	Pervious history not avialbe						
2	2013	1900	-	21	-	-	-
3	2014	42,180	-	89	173	1,150	324,897,500
4	2015	5,053	-	23	-	-	-
5	2016	-	-	-	-	-	-
6	2017	-	-	-	-	-	-
7	2018	-	-	-	-	-	-
8	2019	-	-	-	-	-	-
9	2020	199	-	1	-	-	-
10	2021	-	-	-	-	-	-
11	2022	-	-	-	-	-	-
12	2023	-	-	-	-	-	-
13	2024	-	-	-	-	-	-

Disaster History – Other disasters (since 1970)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	N/A	-	-	-	-

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 Designed Capacity
	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 Above 1.75 Lac CS

	At Chenab Flood Bund Low Flood Above 1.5 Lac CS but less than 2.0 Lac CS Medium Flood Above 2.0 Lac CS but less than 3.0 Lac CS High Flood Above 3.0 Lac CS but less than 4.5 Lac CS Very High Flood Above 4.5 Lac CS but less than 6.0 Lac CS Exceptionally High Flood 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	

Major Embankments/Bunds

S. No.	Name of flood bund/spur	District	Length (Feets)	Top width (Ft)	Free board (Ft)	River side
1	Left marginal bund Sidhnai Barrage	Khanewal	16.96	25	6	3:1

Breaching Section

Name of Bund/ Embankment	Name of Breaching Section	Location with GPS Coordinates	Likely Affected Population			Likely Affected Revenue Estate	Remarks
			Male	Female	Children		
River Ravi	at 16 RMB	X: Y:	-	-	-	No effect in District Khanewal	Breaching section of Sidhnai Barrage located in District Toba Tek Singh

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
Rosch Power Plant	450 MW	X: 30.567390 Y: 72.139661	Fauji Power Plant	157 MW	X: 30.5692217 Y: 72.1439090
Zahoor Abad Grid Station	132 KVA	X: 30.314623 Y: 71.954367	Kacha Khu Grid Station	132 KVA	X: 30.2631205 Y: 72.1867152
Kabirwala Multan Road Grid Station	132 KVA	X: 30.3751929 Y: 71.8175404	Kabirwala Jhang Road Grid Station	132 KVA	X: 30.3749986 Y: 71.8175082
Oil Depot	N/A	-			

Airport / Landing Strips

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

Govt. storage facilities/warehouses in the district

Facility Type	Capacity	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
PR Khanewal	25080 Metric Ton	30.305096 71.923647	PR Abdul Hakim	29070 Metric Ton	30.552464 72.121805
PR Kacha Khuh	10860 Metric Ton	30.421857 72.301697	Flag Jodhpur	17073 Metric Ton	30.502282 71.93574
Flag Chak # 65/15-L	8870 Metric Ton	30.177597 72.217115	Flag Sardarpur	23700 Metric Ton	30.502057 71.770475
Flag Niazi Chowk	13130 Metric Ton	30.299322 72.032441	Flag Kot Islam	18600 Metric Ton	30.679491 72.048866
Flag Makdhoom Pur Pohran	13100 Metric Ton	30.468326 72.062162	Flag Salar Whine	13888 Metric Ton	30.427155 71.689765
Flag Saleem Chowk	17900 Metric Ton	30.157205 71.999825	Flag Bhutta Kot	13090 Metric Ton	30.440369 71.821516
PR Jahanian	22176 Metric Ton	30.037695 71.812218	Flag Thatta Sadiqabad	17550 Metric Ton	29.967272 71.634553

STALITE VIEW



District baseline/reference map



Source:

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
- Municipal Corporation/Committees Khanewal, Kabirwala, Mian Channu & Jahanian
- District Police
- Rescue 1122
- Irrigation XEN (s) Sidhnai & Shujabad Cannal.

CONTROL ROOM PICTURES

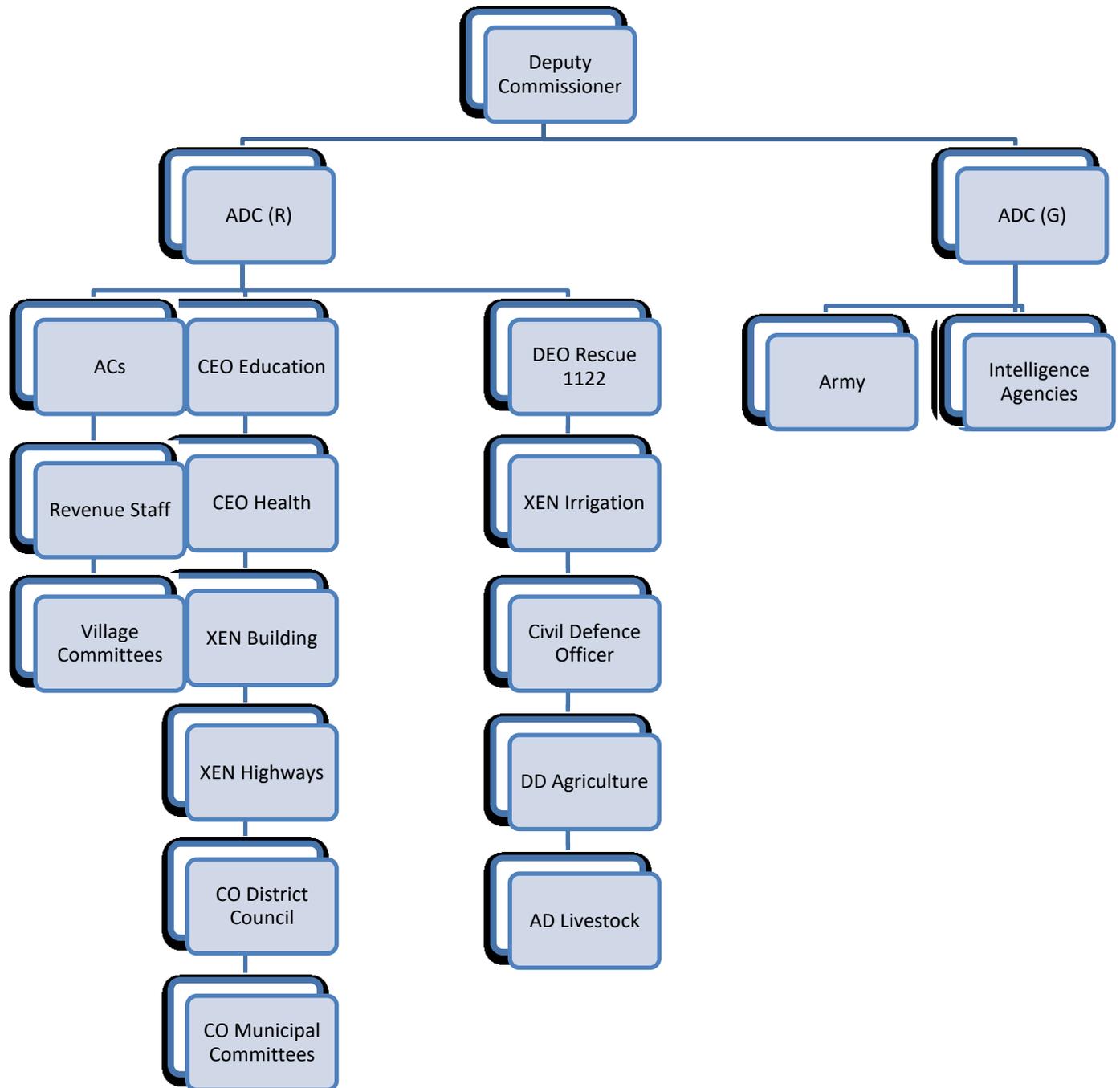


LIST OF ITEMS RECIEVED AND INSTALLED IN DEOC:

SR.	EQUIPMENT FOR DEOCS	RECEIVED QUANTITY	REMARKS
1	Computer Tables with Chairs	2	Installed in DEOC
2	Wodden File Cabinet	1	Installed in DEOC
3	Conference Table (16 Feet)	2	Installed in DEOC
4	Conference Chairs	20	Installed in DEOC
5	Air Conditioners 1.5 Ton	1	Installed in DEOC
6	Media Watch (55" LEDs)	4	Installed in DEOC
7	Media Connectivity	4	Installed in DEOC
8	Dome Camera	1	Installed in DEOC
9	Wifi Router	1	Installed in DEOC
10	Biometric Machine with Dashboard	1	Installed in DEOC
11	Telephone Set	1	Installed in DEOC
12	Conference Calling Audio Video System	1	Installed in DEOC
13	Video Wall with Controller 55"	1	Installed in DEOC
14	5KVA Solar System (with 3 hours backup time)	1	Installed in DEOC
15	10 KVA Deisel Generator	1	Installed in DEOC
16	Fax Machine	1	Installed in DEOC
17	3 in 1 Printer	1	Installed in DEOC
18	Photocopier Machine	1	Installed in DEOC
19	Desktop Computers	4	Installed in DEOC
20	UPS for Desktop Computers	4	Installed in DEOC
21	RENOVATION OF DEOC: (Panelling, Tiles, Windows Blinds, Networking & Earthing has been completed in DEOC)		

COORDINATION MECHANISM

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



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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

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

- Taking everyone on board is perhaps the most important thing to do. Regular meetings of DDMA should be held to clearly highlight the roles and duties of DPOs, 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.

PRIMARY FUNCTIONS:

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

Checklist for Control Room:

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

Checklist for Relief Camp Incharge:

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

Role of Health Department

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

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

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

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

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

Civil-Military Coordination Mechanism

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 1600 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.

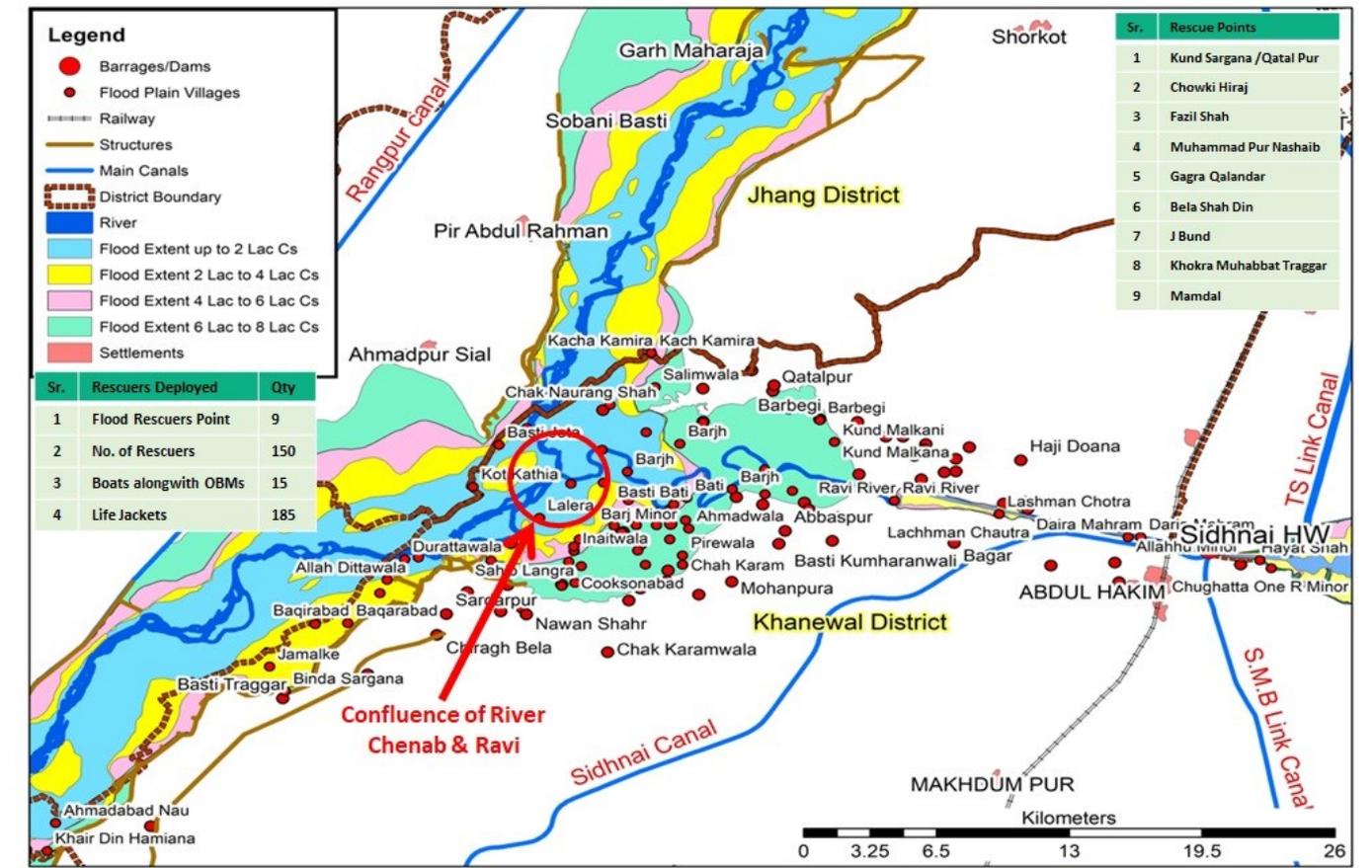
NATURAL HAZARDS

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

HUMAN INDUCED HAZARDS

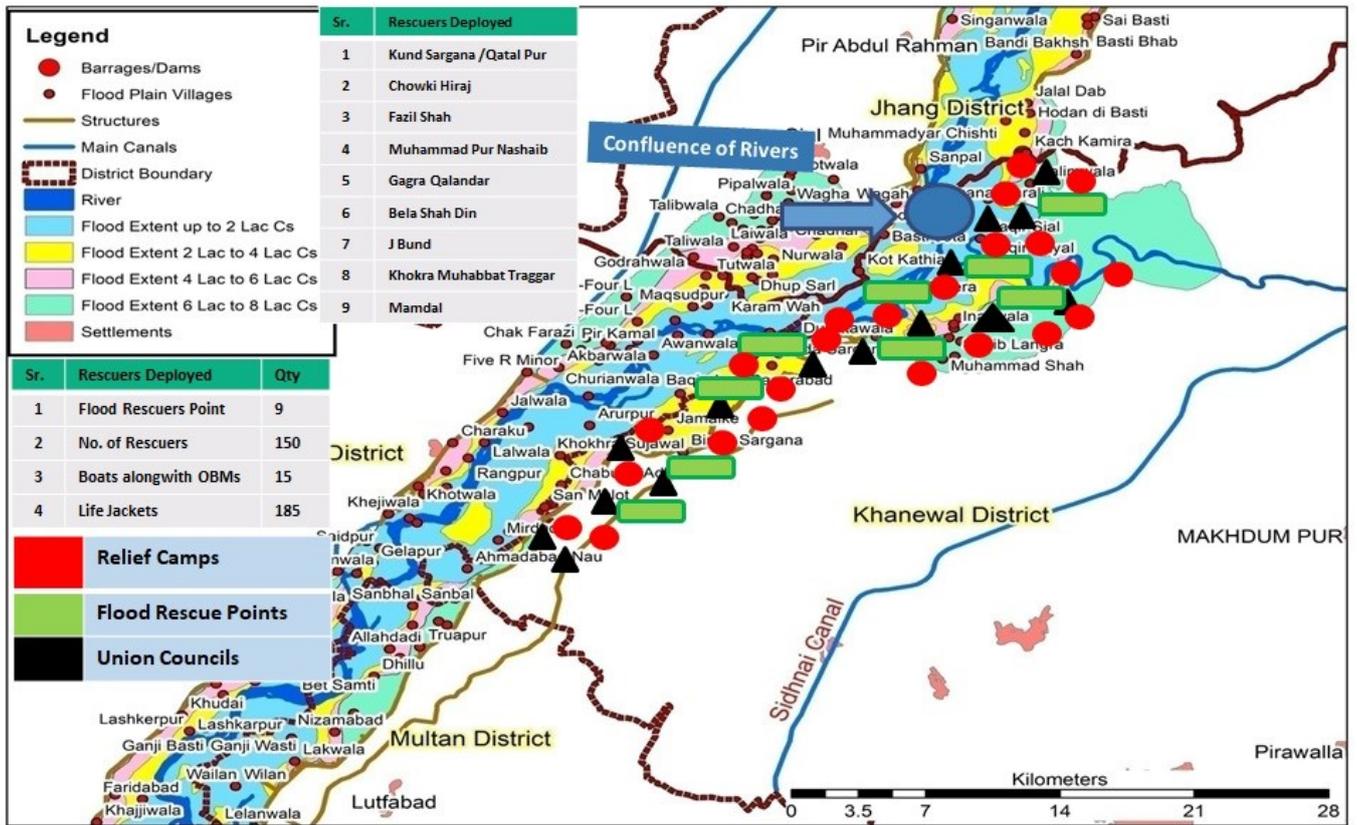
- ✓ Disease,
- ✓ Hail Storms Industrial Fires and industrial
- ✓ units related environmental
- ✓ pollution,
- ✓ Sectarian Violence,
- ✓ Terrorism

District detail map with vulnerable points including (Rivers, Nullahs, Hill Torrents, Wheat Gowdowns, hazards, planned camps, health facilities, warehouses) etc.



Source:

District detail map with vulnerable points including (Rivers, Nullahs, Hill Torrents, Wheat Gowdowns, hazards, planned camps, health facilities, warehouses) etc.



Source:

3. Response & Operational Capacity

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

(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)- 359

Volunteers- 10

Ambulances- 21

Motorbike Ambulance-53

Fire vehicles- 06

Rescue Vehicle- 03

Motor Boats- 14

Life Jackets- 185

(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 2943
Metal Detectors- 361
Total No. of Vehicles- 117

(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-827 (270 in DHQ, Khanewal)
Staff- 211

(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- 5

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- 14

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	14	14	0	0
OBM (40 HP)	15	15	0	0
OBM (15 HP)	0	0	0	3
De-watering sets	17	17	3	0
Navigators	0	0	0	0
GIS devices	0	0	0	0
Life Jackets	185	185	0	0
Life Ring	15	15	0	0
Life Lines	5	5	0	0
Scuba diving suit with complete accessories	4	4	0	0
First Aid Kits	0	0	0	0
Rescue Bag	50	50	0	0
Safety Harnesses	20	20	0	0
Ambulances	17	17	0	0
Fire Brigade	5	5	0	0
Water Tanks / Bouzers	11	11	0	0
Extendable Ladders	0	0	0	0
Hydraulic Cutter	1	1	0	0
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	0
Pickups/Jeeps/4x4 vehicles/Mini Trucks	0	0	0	0
Searchlight (Torches)	0	0	0	50
Tent	90	90	0	0
Mosquito Net	0	0	0	100
Plastic Mat	0	0	0	100
Blanket	0	0	0	100
Any other main relief/rescue equipment	0	0	0	0
Generator Sets	9	9	0	0
Gas-Cutters	0	0	0	0
Sonar Radars	0	0	0	0
Navigator/GPS Tracker	0	0	0	0
Floating Rope	7	7	0	50

5.Gaps and Constraints

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

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

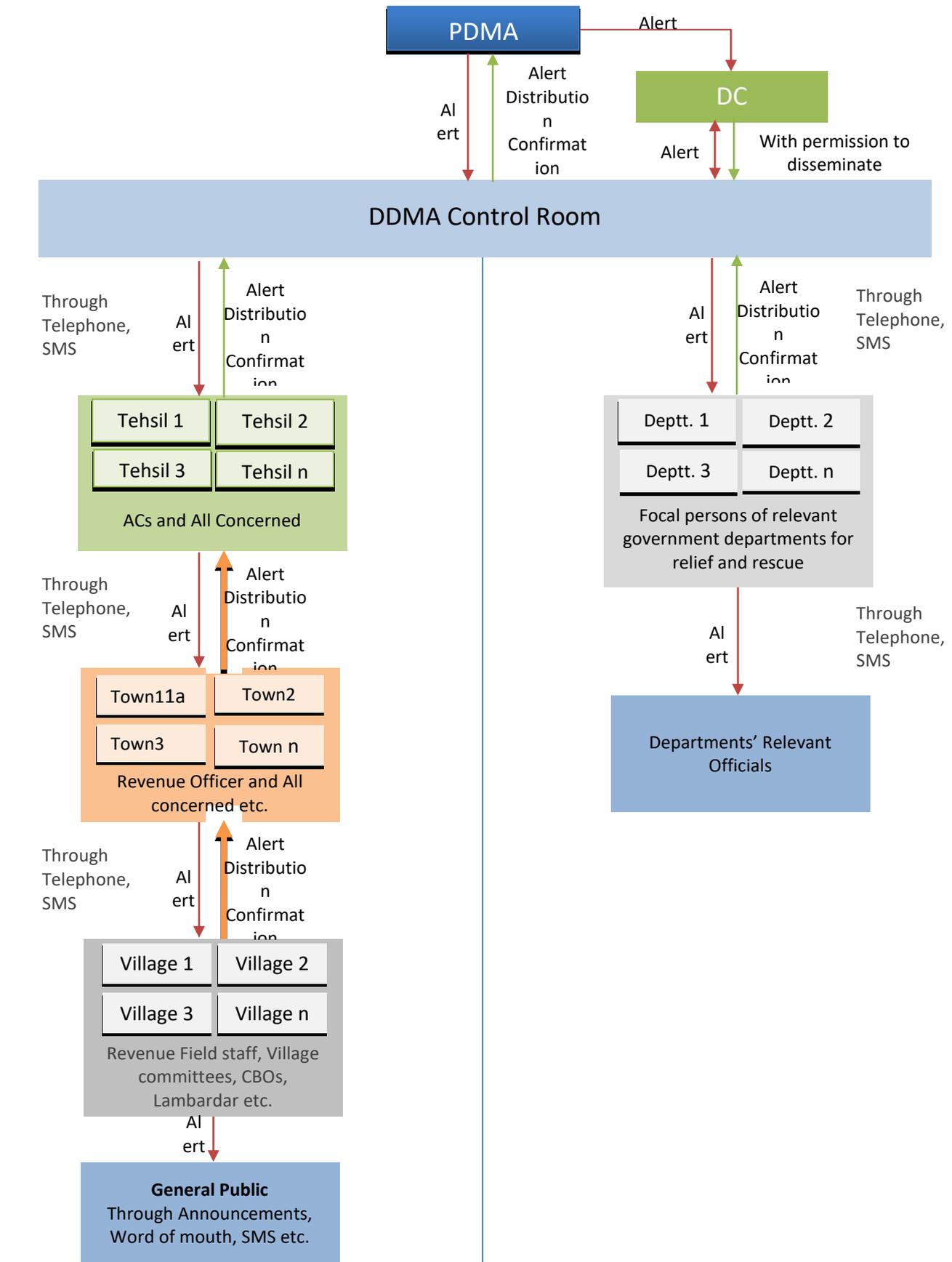
Hazards	Mitigate Actions	Responsible Department
FLOODS	<p>Established the institutional and legal system for disaster management</p> <p>Prepare disaster management plans at various levels</p> <p>Conduct multi-hazard, vulnerability and risk assessment</p> <p>Establish multi-hazard early warning and evacuation 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>
URBAN FLOODING	<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>
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>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>
FIRE INCIDENTS	<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>
OTHER MAJOR ACCIDENTS (BUILDING COLLAPSE, ROAD TRAFFIC ACCIDENTS, TRAIN ACCIDENT, STAMPEDE, PLANE CRASH)	<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>Police</p>

ENVIRONMENTAL HAZARDS (INDUSTRIAL ACCIDENTS, SEVERE POLLUTION ETC.)	<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 Rescue 1122 Local Govt. CO MC Provincial & District Highway Departments Department of Community Development Civil Defense Department of Public Works Police</p>
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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. High Secondary School Fazil Shah	100	X: 30.5768823 Y: 71.8065315	11	Govt. Boys Priamry School Batti Bangla	50	X: 30.5934186 Y: 71.8560879
2	Govt. Girls Middle School Fazil Shah	80	X: 30.5768823 Y: 71.8065315	12	Govt. Boys High School Qatalpur	100	X: 30.6612790 Y: 71.9394632
3	Govt. Boys Middle School Sahib Langra	80	X: 30.5621001 Y: 71.8371692	13	Govt. Girls Priamry School Kunda Hiraj	50	X: 30.562290 Y: 71.700432
4	Govt. Girls Middle School Muhammad Shah	80	X: 30.560036 Y: 71.846577	14	Govt. Girls Priamry School Batti Bangla	200	X: 30.5934186 Y: 71.8560879
5	Govt. Boys Middle School Muhammad Shah	80	X: 30.5672230 Y: 71.8242055	15	Havail Mubrak Shah	200	X: 30.6016641 Y: 71.8769863
6	Govt. Higher Secondary School Sardarpur	100	X: 30.5530581 Y: 71.7657887	16	Govt. Boys Priamry School Gagra Qalandar	50	X: 30.5132072 Y: 71.6644959
7	Govt. Girls High School Sardarpur	100	X: 30.565334 Y: 71.770590	17	Govt. Boys Priamry School Khat pur Sanda	50	X: 30.6540002 Y: 71.8783246
8	BHU, Mumdal	200	X: 30.5285774 Y: 71.7382591	18	Govt. Boys Priamry School Kund Sargana	50	X: 30.6505809 Y: 71.9006882
9	Govt. Middle School Khokar Muhabbar Traggar	80	X: 30.5195371 Y: 71.6706925	19	Govt. Boys Priamry School Khunda Hiraj	50	X: 30.489726 Y: 71.634539
10	Govt. High School Salawahin Nau	100	X: 30.4652559 Y: 71.6193560	20	Govt. Middle School Jhok Azam	80	X: 30.4878644 Y: 71.6345114

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

Hazards	Tehsils	UCs	Names of Villages
Floods	Kabirwala	46	<ol style="list-style-type: none"> 1. Kot Kathia 2. Mohri Jhandir 3. Lalera 4. Sahib Langra 5. Muhammad Shah 6. Fazil Shah 7. Sada Hiraj 8. Chowki Mohan 9. Muhammad Pur Nashaib 10. Chiragh Bela 11. Chiragh Wali 12. Baqir Abad 13. Mamdal 14. Ahar Bela 15. Binda Sargana 16. Muhabbat Taraggar 17. Faqir Sial 18. Chak Norang Shah 19. Jahana Mirali 20. Khat Pur Sanda 21. Kund Sargana 22. Peple Mirali 23. Mansoor Mirali 24. Gul Pur Panjeri 25. 8-Mudhi 26. Sharif Faqir 27. Khunda Hiraj 28. Qadu Mirali 29. Kuksan Abad 30. Bati 31. Noor Mirali 32. Sae Mirali 33. Gagra Qalandar Jahanian 34. Ahmad Abad Nou 35. Khair Din Hamyana 36. Khair Din Sani 37. Ahmad Abad Kohna 38. Khair Din Hamyana Amda 39. Haveli Mubarak Shah 40. Qatal Pur, Shakru Wala 41. Barbegi 42. Barajh, Jamal Kay 43. Dhinyani

			44. Salarwahin Nou 45. Bela Shah Din, 46. Jhok Azam 47. Ahmad Abad 48. Kot Khatiya
Floods	Mian Channu	36	1. Dulwan 2. Boopri Mirza Kathia 3. Sati Bhuwana 4. Boopri Sakroo K Dahr 5. Farid K Kathia 6. Boopri AYA Khara 7. Boopri Rehman 8. Boopri Daad Kathia 9. Bunga Machia 10. Rotla 11. Azim Hiraj 12. Bela Sikander 13. Bela Punjuana 14. Raam Pur 15. Nooran Hiraj 16. Manik Hiraj 17. Jam Dangra 18. Noor Sultan 19. Jangle Maseet Wala 20. Nusrat Pur 21. Mosa Ali Khakh 22. Ghazi Panda 23. Sultan Mehr shah 24. Chughta Punjuana 25. Buknere 26. Tara Pur 27. Tulamba 28. Kachi Wala 29. Kot Barkat Ali 30. Jangle Mian Chingo 31. Chakra Bub 32. 125/7-ER 33. 124/7-ER 34. 123/7-ER 35. 1/8R 36. 3/8R 37. Ghous Pur 38. Baghdad Sharif
Urban Flooding			
Flash Floods			
Hill Torrent			
Tornado			

Earthquake	Khanewal	35	Khanewal
	Kabirwala	46	Kabirwala
	Main Channu	38	Main Channu
	Jahaninan	18	Jahaninan
Drought			
Epidemic	Khanewal	35	Khanewal
	Kabirwala	46	Kabirwala
	Main Channu	38	Main Channu
	Jahaninan	18	Jahaninan
Environmental Hazards (industrial accidents, severe pollution etc.)	Khanewal	35	Khanewal
	Kabirwala	46	Kabirwala
	Main Channu	38	Main Channu
	Jahaninan	18	Jahaninan

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	DHQ Khanewal	Secondary	Dr. Ammara Ali 3030872497	Earthquake, Epidemic
2	THQ Kabirwala	Secondary	Dr. MEESAM RAZA 3336222002	Earthquake, Epidemic & Flood
3	THQ Jahanian	Secondary	Dr. UMAR GHAURI 3007180986	Earthquake, Epidemic
4	THQ Mian Channu	Secondary	Dr. Asif Munir 3009688346	Earthquake, Epidemic
5	RHC, Thatha Sadiqabad, Jahanian, Khanewal	Primary	Dr. Saqib Nadeem 3327126708	Earthquake, Epidemic
6	RHC, Haweli Koranga, Kabirwala, Khanewal	Primary	Dr. Shahroz Saghir 3048614124	Earthquake, Epidemic
7	RHC, Sarai Sidhu, Kabirwala, Khanewal	Primary	Dr. Waqar Haider 3006392861	Earthquake, Epidemic
8	RHC, Abdul Hakeem, Kabirwala, Khanewal	Primary	DR. JAVID AHMED MAHER 3331669786	Earthquake, Epidemic & Flood
9	RHC, Sardar Pur, Kabirwala, Khanewal	Primary	Dr. Sana Khan 3039834511	Earthquake, Epidemic
10	Rural Health Centre, Kukar Hatta, Kabirwala, Khanewal	Primary	Dr. UMAR HAYAT 3055441909	Earthquake, Epidemic & Flood
11	RHC, Kacha Khuh, Khanewal	Primary	Dr. Raza Kamran 3486397822	Earthquake, Epidemic & Flood
12	RHC, Makhdoom Pur, Khanewal	Primary	Dr. Muhammad Habib Ur Rehman 3336386795	Earthquak, Epidemic
13	RHC, Tulamba, Mian Channu, Khanewal	Primary	Dr. Muhammad Asif 3346232033	Earthquak, Epidemic
14	BHU, 102/10-R, Jahanian, Khanewal	Primary	Dr. SOBIA RUBAB 3116161349	Earthquak, Epidemic
15	BHU, 106/10-R, Jahanian, Khanewal	Primary	Dr. IQRA HANIF 3046984436	Earthquak, Epidemic
16	BHU, 127/10-R, Jahanian, Khanewal	Primary	Dr. Kalsoom Arshad 3136089780	Earthquak, Epidemic
17	BHU, 136/10-R, Jahanian, Khanewal	Primary	Dr. Khudadad Shoukat 3346731804	Earthquake, Epidemic
18	BHU, 139/10-R, Jahanian, Khanewal	Primary	Dr. ANEELA FAZAL 3366839465	Earthquak, Epidemic
19	BHU, 140/10-R, Jahanian, Khanewal	Primary	Dr. Iqra Saeed 3000442106	Earthquake, Epidemic
20	BHU, 157/10-R, Jahanian, Khanewal	Primary	Dr. Athar Kaleem 3336232339	Earthquak, Epidemic
21	BHU, 55/10-R, Jahanian, Khanewal	Primary	Dr. Muhammad Atif Imran 3413567352	Earthquak, Epidemic
22	BHU, Ali Sher Wahan, Jahanian, Khanewal	Primary	Dr. SHAH JAHAN 3042483683	Earthquak, Epidemic
23	BHU, Mian Pur, Jahanian,	Primary	Dr. Muhammad Sufyan	Earthquak, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
	Khanewal		3077753396	
24	BHU, Rahim Shah, Jahanian, Khanewal	Primary	Dr.AHMAD ABDUL MANAN 3087527500	Earthquak, Epidemic
25	BHU, 18/D, Kabirwala, Khanewal	Primary	Dr. Syed Turab Haider 3009129883	Earthquake, Epidemic & Flood
26	BHU, 2/AH, Kabirwala, Khanewal	Primary	Dr.Yasir Hussain Babar 3004784455	Earthquake, Epidemic & Flood
27	BHU, 22/Gagh, Kabirwala, Khanewal	Primary	Dr.Muhammad Haris bin Younas 3137260074	Earthquake, Epidemic & Flood
28	BHU, 27/Gagh, Kabirwala, Khanewal	Primary	DR. M. Ahmad 3326992378	Earthquak, Epidemic
29	BHU, 9/Gagh, Kabirwala, Khanewal	Primary	DR. AMIR RASHEED 3424881804	Earthquake, Epidemic & Flood
30	BHU, Bagar Sargana, Kabirwala, Khanewal	Primary	Dr. Muhammad Umar Farooq 3070145977	Earthquak, Epidemic
31	BHU, Baqir Pur, Kabirwala, Khanewal	Primary	DR. HAFIZ MUHAMMAD USAMA AMJAD 3367805474	Earthquak, Epidemic
32	BHU, Chitor Garh, Kabirwala, Khanewal	Primary	Dr. Khuram Shahzad 3330445262	Earthquak, Epidemic
33	BHU, Dandi Sargana, Kabirwala, Khanewal	Primary	Dr.Muhammad Kamran Khan 3006198988	Earthquake, Epidemic & Flood
34	BHU, Haq Nawaz Wala, Kabirwala, Khanewal	Primary	Dr.AROOSHA ZULFIQAR 3106502103	Earthquak, Epidemic
35	BHU, Hashmat Mirali, Kabirwala, Khanewal	Primary	Dr.KASHMALA JAVED 3008985459	Earthquak, Epidemic
36	BHU, Hussain Abad Awal, Kabirwala, Khanewal	Primary	Dr.Ali Hamza Malik 3040835060	Earthquak, Epidemic
37	BHU, Ibrahim Pur, Kabirwala, Khanewal	Primary	Ansar Abbas Iqbal, Dispenser 3003013988	Earthquak, Epidemic
38	BHU, Jasso Kanwan, Kabirwala, Khanewal	Primary	Dr. Romesa Ayaz 3074530072	Earthquak, Epidemic
39	BHU, Jodh Pur, Kabirwala, Khanewal	Primary	Dr. Shahreen Fatima 3029641836	Earthquak, Epidemic
40	BHU, Korai Baloch, Kabirwala, Khanewal	Primary	DR. HAIDAR ALI 3065758070	Earthquak, Epidemic
41	BHU, Kot Bahadar, Kabirwala, Khanewal	Primary	Dr. Had-ul- Haq 3217043533	Earthquak, Epidemic
42	BHU, Kot Islam, Kabirwala, Khanewal	Primary	Dr. Muhammad Sohail Zafar 3006345485	Earthquak, Epidemic
43	BHU, Kund Sargana, Kabirwala, Khanewal	Primary	Sikandar Hayat, SI 3024111412	Earthquak, Epidemic
44	BHU, Maan Kot, Kabirwala, Khanewal	Primary	Dr.Qindeel Fatima 3346828021	Earthquak, Epidemic
45	BHU, Mahni Sial, Kabirwala, Khanewal	Primary	Dr.Muhammad Osama Rauf Hiraj 3056007503	Earthquak, Epidemic
46	BHU, Marri Sahu, Kabirwala, Khanewal	Primary	Dr.ANEELA JAVED 3084460504	Earthquak, Epidemic
47	BHU, Mubarak Pur, Kabirwala, Khanewal	Primary	Dr. Waseem Abbas 3052338473	Earthquak, Epidemic
48	BHU, Mula Pur, Kabirwala, Khanewal	Primary	Dr.Warda Abuzar 3089290517	Earthquak, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
49	BHU, Mumdhah, Kabirwala, Khanewal	Primary	Dr Iqra Naseem Qurashi 3346099216	Earthquak, Epidemic
50	BHU, Norang Shah, Kabirwala, Khanewal	Primary	Dr.ATTA ULLAH KHAN 3335045583	Earthquak, Epidemic
51	BHU, Qatal Pur, Kabirwala, Khanewal	Primary	DR. NAEEM AKHTAR 3346552797	Earthquak, Epidemic
52	BHU, Sandian Wala, Kabirwala, Khanewal	Primary	Muhammad Shakir, SI 3486395704	Earthquak, Epidemic
53	BHU, Thul Najeeb, Kabirwala, Khanewal	Primary	Dr.ASAD MEHMOOD BOSAN 3448797992	Earthquak, Epidemic
54	BHU, Umeed Garh, Kabirwala, Khanewal	Primary	DR. AHSAN RAFIQUE 3004711509	Earthquak, Epidemic
55	BHU, 11-A/8R, Khanewal	Primary	MUHAMMAD AMIR SOHAIL, Dispenser 3077825562	Earthquak, Epidemic
56	BHU, 12/AH, Khanewal	Primary	Outsource Outsource	Earthquak, Epidemic
57	BHU, 14/8-R, Khanewal	Primary	DR MUHAMMAD SALMAN 3126219637	Earthquak, Epidemic
58	BHU, 171/10-R, Khanewal	Primary	DR.MUHAMMAD UMAIR AYAZ 3009416988	Earthquak, Epidemic
59	BHU, 28/10-R, Khanewal	Primary	MUHAMMAD IRFAN QADIR, Dispenser 3004737757	Earthquak, Epidemic
60	BHU, 30/10-R, Khanewal	Primary	Dr. Muhammad Nasir Iqbal 3087997674	Earthquak, Epidemic
61	BHU, 36/10-R, Khanewal	Primary	Outsource Outsource	Earthquak, Epidemic
62	BHU, 44/10-R, Khanewal	Primary	Outsource Outsource	Earthquak, Epidemic
63	BHU, 58/10-R, Khanewal	Primary	Dr.SHAHID PERVEZ 3007313931	Earthquak, Epidemic
64	BHU, 67/10-R, Khanewal	Primary	DR. SAIM QADRI 3318720306	Earthquak, Epidemic
65	BHU, 7/9-R, Khanewal	Primary	DR.RAO ALI HAIDER 3458849803	Earthquak, Epidemic
66	BHU, 70/15-L, Khanewal	Primary	DR. MUHAMMAD AMIR SHAHZAD 3037962318	Earthquak, Epidemic
67	BHU, 74/15-L, Khanewal	Primary	Dr.LARAIB RIDA ANJUM 3000780393	Earthquak, Epidemic
68	BHU, 76/10-R, Khanewal	Primary	DR. JUNAID HASSAN 3037551983	Earthquak, Epidemic
69	BHU, 79/10-R, Khanewal	Primary	DR. IRFANA ALI 3402528510	Earthquak, Epidemic
70	BHU, 88/10-R, Khanewal	Primary	Dr MUhammad Fakhar-E- Alam 3136839344	Earthquak, Epidemic
71	BHU, 9/V, Khanewal	Primary	Dr.Tehmina Raza 3035328106	Earthquak, Epidemic
72	BHU, 92/10-R, Khanewal	Primary	Muhammad Akram, Dispenser 3036496966	Earthquak, Epidemic
73	BHU, Behrowal, Khanewal	Primary	Dr. UMAIR KHIZAR 3057716180	Earthquak, Epidemic

S#	Name and Location	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
74	BHU, Shamkot, Khanewal	Primary	Riaz Hussain, Medical Technician 3056570050	Earthquak, Epidemic
75	BHU, 18/8R, Mian Channu, Khanewal	Primary	Dr.Sadaf Rehman 3327016487	Earthquak, Epidemic
76	BHU, 22/8R, Mian Channu, Khanewal	Primary	DR. MUHAMMAD UZAIR AFZAL 3059159494	Earthquak, Epidemic
77	BHU, Ghous Pur, Mian Channu, Khanewal	Primary	Dr.MUHAMMAD WAHEED KHALID 3336246295	Earthquak, Epidemic
78	BHU, 1/8R, Mian Channu, Khanewal	Primary	Dr. Hafiz Abdul Qayyum Shahzad 3213194995	Earthquak, Epidemic
79	BHU, 100/15L, Mian Channu, Khanewal	Primary	Dr. Mubashar Amin 3337044002	Earthquak, Epidemic
80	BHU, 115/15L, Mian Channu, Khanewal	Primary	DR.GHULAM MURTAZA 3015841035	Earthquak, Epidemic
81	BHU, 121/15L, Mian Channu, Khanewal	Primary	Dr.WAQAS AHMAD 3012086755	Earthquak, Epidemic
82	BHU, 129/15L, Mian Channu, Khanewal	Primary	Dr.HAFIZ MUHAMMAD UMAR FAROOQ 3217248184	Earthquak, Epidemic
83	BHU, 131/15L, Mian Channu, Khanewal	Primary	HAFIZ MUHAMMAD UMAR 3316989667	Earthquak, Epidemic
84	BHU, 133/16L, Mian Channu, Khanewal	Primary	Muhammad Younas Azhar SI 3017596003	Earthquak, Epidemic
85	BHU, 137/16L, Mian Channu, Khanewal	Primary	Dr. Hina Ameen 3043305531	Earthquak, Epidemic
86	BHU, 19/8BR, Mian Channu, Khanewal	Primary	Dr.Ayesha Zahoor 3085543006	Earthquak, Epidemic
87	BHU, 44/15L, Mian Channu, Khanewal	Primary	Dr.Muhammad Umar Farooq 3337890082	Earthquak, Epidemic
88	BHU, 50/15L, Mian Channu, Khanewal	Primary	Muhammad Ishfaq, Dispenser 3136880892	Earthquak, Epidemic
89	BHU, 67/15L, Mian Channu, Khanewal	Primary	Dr..shrat Fatima 3333079458	Earthquak, Epidemic
90	BHU, 7/8AR, Mian Channu, Khanewal	Primary	Outsource Outsource	Earthquak, Epidemic
91	BHU, 88/15L, Mian Channu, Khanewal	Primary	Allah Ditta, Medical Technician 3008395589	Earthquak, Epidemic
92	BHU, 92/15L, Mian Channu, Khanewal	Primary	Dr. Hafiz Ziyad Ibrahim 3336894308	Earthquak, Epidemic
93	BHU, Jungle Deray Wala, Mian Channu, Khanewal	Primary	Dr. Umaima Mehmood 3066965470	Earthquak, Epidemic
94	BHU, Kot Barkat Ali, Mian Channu, Khanewal	Primary	Dr. Farhan Sarwar 3336249524	Earthquak, Epidemic

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	Enrollment	Incharge Name	Contact Number
1	GGHS Salarwahin Naw	High	315	Nuzhat Sultana	0306-7493684
2	GGMS Mumdal	Middle	326	Rabia Wahid	0302-7446967
3	GGMS Kassi Jandeer	Middle	128	Asma Noshin	0331-8727287
4	GGHS Kund Sargana, Sarai Sidhu	High	175	Qudsia Mehmooda	0335-7463636
5	GGES Faqir Sial	Primary	217	Rahat Bashir	0305-6928314
6	GGPS Basti Arain	Primary	137	Nabeel Ashraf	0300-2995146
7	GGMS Sahib Langra	Primary	118	Nasreen Akhtar	0336-6397304
8	GGMS Pull Ghmoo wali No. 1	Middle	191	Mehwish Raof	0304-7748297
9	GPS Basti Nikyana	Primary	121	Azhar Abbas	0345-7393215
10	GGPS Basti Nikyana	Primary	139	Tayyaba Aslam	0313-6891313
11	GPS Shkroo wala	Primary	59	Vacant	-
12	GPS Jahan Mirali	Primary	49	Mazhar Hussain	0345-4078824
13	GGMS Sahib Langra	Primary	118	Nasreedn Akhtar	0336-6397304
14	GPS Kot Khatia	Primary	116	Fahad Mehmood	0303-7149429
15	GMS Muhammad Shah	Middle	132	Syed Taswar	0301-7203003
16	GPS Muhammad pur Nashib	Primary	142	Asma Batool	0311-5617313
17	GPS Nusrat pur	Primary	193	Barkat Ali	0347-8869224
18	GPS Naseer Kathia	Primary	127	Babar Sohail	0308-7283500
19	GPS Saleem K Dahar	Primary	55	Abid Ali	0306-6975077
20	GPS Buknairh	Primary	162	Intizar Hussain	0307-7899407
21	GPS Shakroo	Primary	184	M. Usman Ghani	0334-6233247
22	GMPS Rampur Mmagha	Primary	163	Tahira Kousar	0303-9824122
23	GMPS Musa Ali Khakh	Primary	161	Ghulam Ayesha	0300-3512642
24	GGPS Sarwar K Dewaan	Primary	59	Sumira Ramzan	0306-6148910
25	GPS 1/8R Norang Abad	Primary	209	Shahid Nadeem	0305-5607731
26	GMPS Boopri Aya Khera	Primary	241	M. Abdullah	0302-4920256
27	GGPS 123/7-ER	Primary	148	Shugaftha Shafi	0334-6898321
28	GMPS Azeem Hiraj	Primary	85	Naleem Hassan	0335-6229666

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
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 065-2661375	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
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.rouschpak.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 Progressive 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
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

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
17	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
27	Idare Khidmat E Khilq	Local	Khanewal	Patient Welfare	Mian Hafeez Ahmed	0300-8984976

ANNEX VII: CONTACT LIST OF MAIN TAKEHOLDERS/ DEPARTMENTS

S#	Designation	Name of Officer	Contact Nos.	Mobile
1	Deputy Commissioner Khanewal	Dr. Salma Suleman	065-9200032	0304-0920082
2	ADC(Rev) Khanewal	Khalid Abbas Sial	065-9200069	0322-4956628
3	DPO Khanewal	Ismail ur Rehman	065-9200175	0309-7771008
4	ADC (G) Khanewal	Ghulam Mustafa	065-9200030	0333-6802225
5	DEO Rescue 1122/Secretary DDMA	Dr. Khalid Mehmood	065-9200365	0300-0301122
6	DO Civil Defence	Shakeb Ahmad	065-9200293	0300-6305847
7	SNA DC office	Shahid Rizwan	065-9200036	0333-6469884
8	AC Khanewal	Ms. Sumbal Javed	065-9200242	0307-3202225
9	AC Kabirwala	Mirza Raheel Baig	065-2410611	0333-4121083
10	AC Mian Channu	Muhammad Iqbal	065-2660590	0343-6347726
11	AC Jahanian	Taimoor Khan	065-2210303	0333-3509944
12	Tehsildar Khanewal	Hafiz Muhammad Iqbal	-	0300-7720600
13	Tehsildar Kabirwala	Rai Imran Ali	-	0300-5035002
14	Tehsildar Mianchannu	Rana Adeel Ahmed	-	0300-9544984
15	Tehsildar Jahanian	Furqan Afzal	-	0302-2122103
16	Deputy Director (LG & CD)	M. Shahid Iqbal	065-9200059	0300-9767892
17	Chief Officer District Council	Mian Asif Iqbal	065-9200130 065-9200131	0300-9696764
18	Chief Officer (MC) Khanewal	Awais Iqbal	065-9200055	0300-8797256
19	Chief Officer (MC) Kabirwala	Iftikhar Bangash	065-2411776	0345-6665999
20	Chief Officer (MC) Mian Channu	Rehman Latif	065-2664927	0306-6044600
21	Chief Officer (MC) Jahanian	Awais Iqbal	065-2211916 0652211785	0300-8797256
22	CEO Education	Fiaz Ahmad	065-9200232	0300-1560291
23	XEN Irrigation	M. Hamid Khaliq	065-9200135	0300-0975891
24	XEN Buildings	Numan Suleman	065-9200266	0303-7454242
25	XEN Highways	Tariq Saeed	065-9200295	0300-8621011
26	DD Agriculture	Mehr Iqbal	065-9200060	0300-7729608
27	CEO DHA Khanewal	Dr. Abrar	065-9200137	0333-7650683
28	DHO Khanewal	-	065-9200141	
29	MS DHQ Hospital	Dr. Amara Ali	065-9200210	0303-0872497
30	AD (Live Stock) Khanewal	Dr. Ahsan	065-9200294	0333-7652345
32	SDO Head Sidhani	Haseeb Zafar		0306-0108696
33	XEN Shujabad Canal	Khursheed	061-9200699	0300-7323748
34	SDO Shujabad Canal	Rizwan Saleem	-	0312-7444344

S#	Designation	Name of Officer	Contact Nos.	Mobile
35	Secretary DRTA Khanewal	Zahid Hassan	065-9200304	0334-9925263
36	AD Wildlife and Forest	Muhammad Sarfraz		0342-8668153
37	Manager SNGPL Khanewal	Muhammad Shakir		0321-4058727
38	DD Information Khanewal	Khalid Rasool	065-9200236	0300-7876752
39	Manager Auqaf Khanewal	Karim Nawaz		0337-1661886
40	Excise Taxation & Narcotics Control, Officer Khanewal	Younas Gondal		0333-6214544
42	DD Social Welfare Khanewal	Okasha		0321-4191787
43	District Jail Khanewal	Deputy Superintendent Jail	065-2551882	

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
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

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
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. Hussnian	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	Arshad Iqbal	36103-5782800-1	Basti Zahoorabad near Ashraf Goods Khanewal	0307-5904706	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
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

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
22	Shahzad Anwar	36103-0601669-1	House No. 1212, Colony No. 3, 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

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-145	M. Khan Daha	PML (N)	065-2552728, 042-35762515	PP-211	Rana M. Saleem	PML (N)	0300-6899644
				PP-206	Barrister Usama Fazal Ch.	PML (N)	0301-5172325
NA-144	M. Raza Hayat Hiraj	PML (N)	0333-5211786	PP-205	Akber Hayat Hiraj	PML (N)	0300-8638222
				PP-212	M. Asghar Hayat Hiraj	PML (N)	0300-6838111
NA-146	Zahoor Hussain Qurashi	Independent	-	PP-207	Amir Hayat Hiraj	PML (N)	0333-6444999
				PP-208	Babar Hussain Abid	PML (N)	0321-2232222
NA-147	Ch. Iftkhar Nazir	PML (N)	0302-8471212	PP-209	Ch. Zia-ur-Rehman	PML (N)	0347-9111111
				PP-210	Khalid Javeed Arain	Independent	-

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	Chief Officer District Council, Khanewal	Khanewal	Mian Asif Iqbal	065-9200130 065-9200131	0300-9696764
2	Chief Officer Tehsil Council/Committee, Khanewal	Khanewal	Awais Iqbal	065-9200055	0300-8797256
3	Chief Officer Tehsil Council/Committee, Kabirwala	Kabirwala	Iftikhar Bangash	065-2411776	0345-6665999
4	Chief Officer Tehsil Council/Committee, Mian Channu	Mian Channu	Rehman Latif	065-2664927	0306-6044600
5	Chief Officer Tehsil Council/Committee, Jahanian	Jahanian	Awais Iqbal Additional Charge	065-9200130 065-9200131	0300-8797256
6	Chief Officer Town Committee, Abdul Hakim	Abdul Hakim	Rao Irshad	-	0301-7776145
7	Chief Officer Town Committee, Tulamba	Tulamba	Rehman Latif	065-2411776	0306-6044600 0306-8044600

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.
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P5: Crop Damages

District: _____

Date: _____

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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-	Khargarh 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	Punjad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
Total in feet.			290,000
Total in miles			54.92
MULTAN ZONE			

1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	Total in feet.		190,000
	Total in miles		35.98
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
RAVI	Punjnad	7	1.5	2	3	4.5	6
	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.