

DISTRICT DISASTER MANAGEMENT PLAN 2020

Division: SAHIWAL

District: OKARA



Head Sulemanki



Earthquake



Floods



Fire incident

Prepared by: ADC(Rev) with the Assistance of DEO (Rescue 1122)

Approved by: Deputy Commissioner Okara

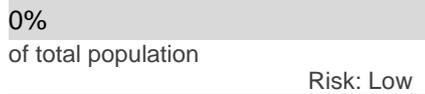


TABLE OF CONTENTS

Executive Summary	1
Aim and Objectives	2
District Profile	3
Coordination Mechanism	9
Risk Analysis	18
Mitigation Strategy	25
Early Warning	28
Rescue Strategy	31
Humanitarian Assistance	31
Annex I: Identified sites for displaced persons	34
Annex II: List of hazard prone villages/ Revenue Estate (NAMES REquired)	35
Annex III: List of Health Facilities and their vulnerability to Hazards	38
Annex IV: List of vulnerable Educational institutions	40
Annex V: List of Industries with their risk level	42
Annex VI: List of NGO working in the District	43
Annex VII: Contact list of main stakeholders / departments	46
Annex VIII: List of volunteers	47
Annex IX: Political Constituencies	52
Annex X: Local Government	54
Annex XI: Data Collection Performas	55
Annex XII: Camp Management SOPs	59
Annex XIII: Flood Bunds	60
Annex XIV: River Discharge Rates	63
Annex XV: List of Basic Terms	64

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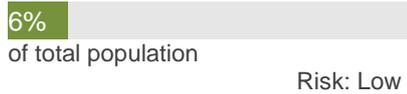
Estimated number of people at risk of **hill torrent** in 2020



Risk: Low

XX

Estimated number of people at risk of Floods in 2020



Risk: Low

XX

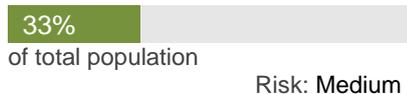
Estimated number of people at risk of earthquake in 2020



Risk: Low

XX

Estimated number of people at risk of epidemic in 2020



Risk: Medium

EXECUTIVE SUMMARY

Okara is vulnerable to a variety of Calamities but geographical location and climatic conditions make it vulnerable to Moon Soon Floods.

Floods in the District have caused loss of life, heavy loss of property, infrastructure and livelihood of people. The availability of resources, preparedness, planning and institutional / organizational capacity has always been an asset of District Okara. The purpose of this plan is to clarify the roles & responsibilities of different stake holders / departments to introduce enhanced coordination for immediate response and fast rehabilitation process.

The plan classifies small, medium and large scale untoward situations for a well coordinated and articulated response strategy. The plan integrates the SOP's of various Government Department to propose a consistent approach for reporting damages, need and assessment of post disaster requirements.

The plan has been designed on risk management standards for risk minimization. The plan identifies the environmental risks of the District and how to affectively manage these risks.

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).
- To develop the culture of prioritizing and adapting the risk safety measures amongst the society in the wake of any emergency.
- To inculcate the sense of preparedness among the residents of the district and train them to a certain degree of self help for a challenging situation.
- To devise policies and procedures to upgrade the safety kits, technical, human and material resource, in all the hazard prone areas of the district and lay out effective plan to the resource bank efficiency in times of disaster.
- To strengthen and upgrade the early warning system and communication channels to implement the directives of the help lines of all the operation centers.
- To develop synergy and harmonious interaction of all the stakeholders to develop an alarming front against any disaster like situation.
- To execute the preparedness agenda of drills and exercises on regular basis.
- To monitor and evaluate the inventory both qualitatively and quantitatively.
- To devise and activate chain of command and control centre for steering trigger mechanism.

DISTRICT PROFILE

Socio-Economic Indicators (Average)

S.No.	Particulars	Numbers
1.	Population	3039139
2.	No. of Tehsils	3
3.	No. of UCs	-
4.	No. of Revenue Estates	933
5.	Population Density (people per km ²)	690
6.	Family Size	6.1
7.	Pop Growth Rate	1.63
8.	PCI	3356.5617
9.	District GDP/Annual Income	-
10.	Poverty Rate	47.0
11.	Patient/Doctor Ratio	10/55
12.	AMR	355
13.	IMR	35/1000
14.	MMR	83/100000
15.	Literacy Rate	51.6%
16.	Global Acute Malnutrition (GAM) rate	-
17.	Severe Acute Malnutrition (SAM) rate	-
18.	Percentage of population having access to clean drinking water	-
19.	Annual Crime	12645 crimes reported in 2019

Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
3039139	686845	656454	577436	571358	547045

Source/Note: Click here to enter text.

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Mortar)
613620	61120	552500

Source/Note: Click here to enter text.

Area (in acres) 1085615

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
4377	850956	217430	17229

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
51.6%	58.8%	33.0%	76.0%	61.1%	62.6%	39.4%

Source/Note:

Government Schools

		Schools	Enrollment
Total/ Overall		1418	390430
Boys	Primary	483	73387
	Middle	106	41147
	High	118	83507
Girls	Primary	440	60995
	Middle	176	52711
	High	87	77527
Co-Education	Primary	0	0
	Middle	0	0
	High	0	0
Special Education		8	1156

Private Schools

		Schools	Enrollment
Total/ Overall		954	337732
Boys	Primary	-	-
	Middle	434	136296
	High	162	56700
Girls	Primary	-	-
	Middle	158	68572
	High	152	65968
Co-Education	Primary	48	10200
	Middle	-	-
	High	-	-
Special Education		-	-

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	15	1	0	0	2	18
No of Students	18366	12000	0	0	396	30762

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	144	4	-	51	199
Annual OPDs	2024534	2081535	-	-	4106069
No of beds	394	485	-	351	1230
Doctors Available	132	290	-	-	422
Paramedical staff	816	109	-	-	925
Ambulances available	-	-		11	11
Mobile Medical Units					-

Livestock: Small Animals (goats, sheep etc.):789539

Big Animals (cows, buffalos, camel etc.)

1189934

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

Agriculture	Livestock	Poultry	Fish Farming	Services (Public & Pvt)	Business	Expatriates	Industrial Labor	Skilled Labor	Unskilled Daily Labor	General Labor
53%	12%	3%	0.3%	10%	10%	0.5%	0.2%	1.5%	2.5%	7.5%

Disaster History - Floods (since 1970)

Flood damages in this area have an old history which starts from the year 1955. During the year 1955 a heavy flood in River Ravi at Balloki Headworks was recorded as 204360 Cs. A big area and infrastructure was damaged in Okara and Renala Tehsils. Again in 1988, an unprecedented discharge of about 389345 cusecs in Ravi at Balloki Headworks caused heavy damages to human and animal lives, crops and houses. The town of Renala Khurd and Basti Lal Shah were also affected due to breach in LBDC. Similarly during 1988, a peak flood

of 399543 cusec was experienced at River Satluj which caused damages in the river bed. No major floods have been experienced in district okara since 1988.

Disaster History – Other disasters (since 1970)

No relevant data available.

General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Sahiwal (Flood) Pakpattan (Flood & Terrorist Attack)
Topographical Features	Coordinates:  30.801380°N 73.448334°E Union Councils 140 Area • Total 4377 (S.Q KM)
Weather/Climate pattern	e.g. max. and min. temperature, annual precipitation, storms, heat waves, snow fall etc. The climate of District is extreme in winter i.e very cold as Temp falls to 1°C while the summer is very hot as Temp rises to 47°C. Average annual rainfall is 468 mm per year as per MET Department Okara Statistics of last 8 years. The wind storms have also been observed w.e.f. the month of April to end of August.
Major Rivers	Name of river, passing through areas along with length in the district River Ravi runs 40 km in district through northern boundary in Tehsil Renala & Okara River Sutlej runs 70 km in district through Southern boundary in Tehsil Depalpur
Major Nullahs / Streams	Name of river, passing through areas along with length in the district Old Sukh Beas River (Nullah) passess through District Okara having length of 60Km Lower Bari Doaab Canal passess through District Okara having length of 44.26Km
Motorway/Highway	Vulnerable points of motorway/highway National Highway (Lahore to Karachi)
Railways	Vulnerable points of Railway Okara Cantt,
Geological features	e.g. fault line, mountainous areas etc.

Dams (including small dams)

May please be treated as Nil

Major Embankments/Bunds

Name of Embankment	Length (km)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/ vulnerable Points	GPS Location of Critical/ Vulnerable Points	Remarks
Jandraka Flood Bund	18.5	Mazhar Abad Basti Kaiser / Okara	Thatha Channu / Okara	RD 74 - 80	X:30-18 to 31-8 Y: 73-14 to 74-9	Satisfactory
Upstream Right and Left Guide Bank.	1.07	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Downstream Right and Left Guide Bank.	0.31	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Right Marginal Bund	19.20	Suleimanki / Depalpur	Suleimanki / Depalpur	RD.33000 to RD. 35000	583.50	Satisfactory
Station Spurs	1.83	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Dharang Spurs	3.51	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Left Marginal Bund.	14.48	Suleimanki / Depalpur	Suleimanki / Depalpur	RD.8000 to RD. 10000	585.20	Satisfactory
T.T. Bund	1.83	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Jhangar Spurs.	1.13	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
New Hasta Spurs.	4.12	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Suleimanki Spurs.	0.46	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Malleki Spurs.	0.37	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Jodheki Spurs.	0.46	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Sujeiki Spurs.	0.91	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory
Tulleki Spurs.	1.25	Suleimanki / Depalpur	Suleimanki / Depalpur	--	--	Satisfactory

Breaching Section

Name of River	Name of Breaching Section	Location with GPS Coordinates	Likely Affected Population	Likely Affected Mouzas	Remarks
River Sotlej	Breaching Section at RD.18000 to 18500 of RMB	Mahmood Kot / Dharanga 575.00	5500	Dharanga	When the water level attains the value of RL.575.0 River is rising at upstream nose of LGB or Discharge through the weir would be 3.25 Lac CS
			980	Nikki Maneki	
			1200	Mehtab Garh	
			300	Rakh Bholewal	
			1100	Bholewal	
			1500	Churra Maneka	
			1183	Mahnant Darshan	
			1551	Mathela Bhidal	
			738	Bukan Guddar Ka	
			2829	Bhidal Uttar	
			200	Chak Devi Datta	
			335	Rakh Jawaya Blouch	
			933	Bula Chisti	
			915	Kalu Wah	
			833	Noor Shah	
			448	Wan Nama Jindeka	
			2763	Mohib Ali Uttar	
			8038	Pir Ghani	
			3365	39/Sp	
			3100	Frid Kot	
			709	Rakh Abdal Ky	
763	Izzat ky kala				
965	Molia Chisti				
523	Nama Jindeka				
908	Billi Mar				
818	Chak Dogar				
1500	Jalil Maneka				

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

May please be treated as Nil

Airport / Landing Strips

May please be treated as Nil

Govt. storage facilities/warehouses in the district

May please be treated as Nil

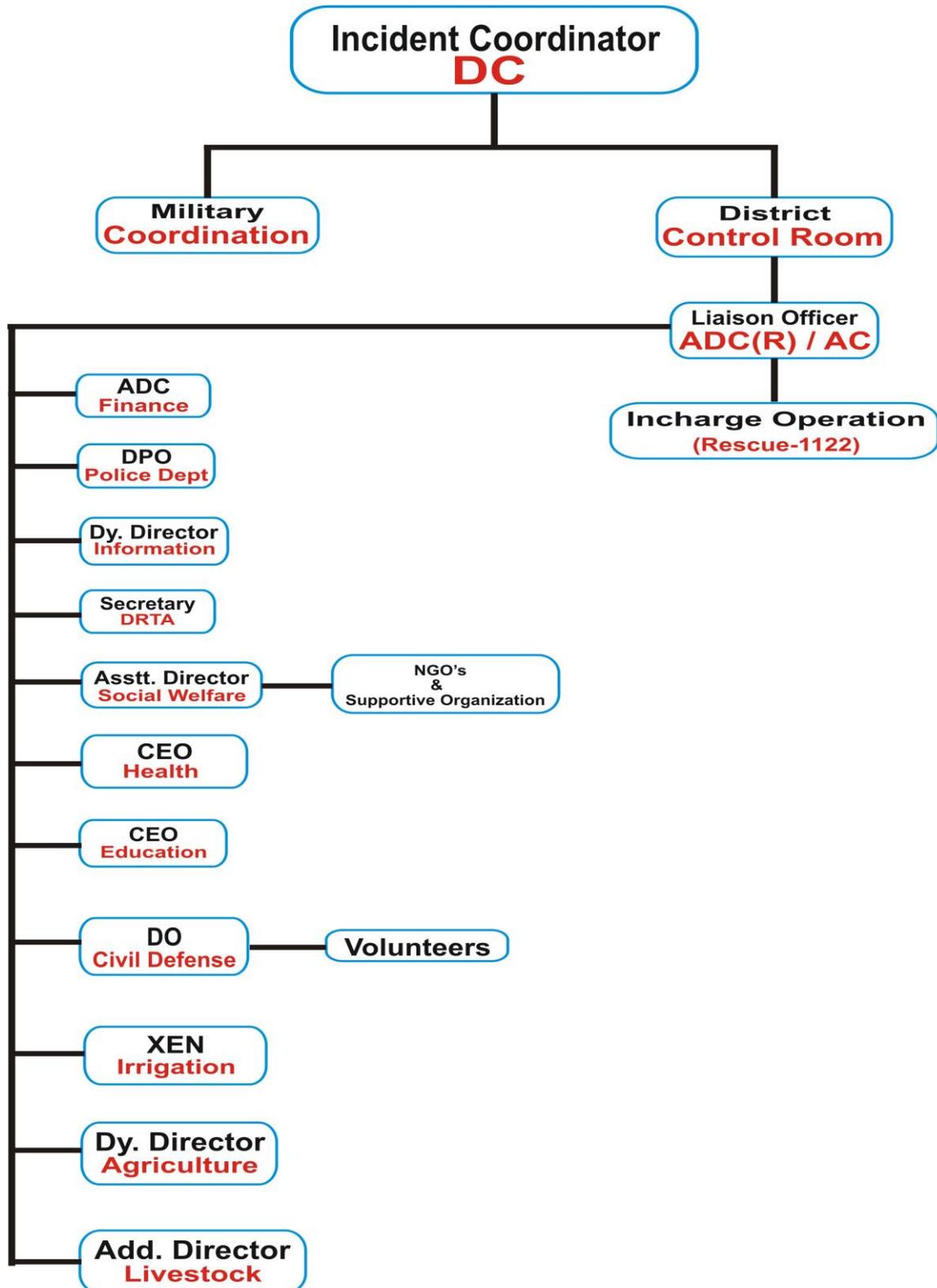
District baseline/reference map



Source: THE URBAN UNIT P & D DEPARTMENT, PUNJAB

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 centers or camps and make arrangements for water supply and sanitation in such buildings or places;
- p) establish stockpiles of relief and rescue materials or ensure preparedness to make such materials available at a short notice;
- q) provide information to the Provincial Authority relating to different aspects of disaster management;
- r) Encourage the involvement of non-governmental organizations and voluntary social-welfare institutions working at the grass root level in the district for disaster management.
- s) ensure communication systems are in order and disaster management drills are carried out periodically; and
- t) Perform such other functions as the Provincial Government or Provincial Authority may assign to it or as it deems necessary for disaster management in the district.

District Plan:

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

- c) The District Plan shall be reviewed and updated annually.

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

In case of any disaster or calamity the head of the revenue department in the district i.e. the 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 Deputy Commissioner (Rev). 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)

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

Functions of Control Room:

RECEIPT OF WARNINGS:

Warnings of natural disaster e.g, floods will be issued in the first instance by the Bureau of Meteorology and the Officer Incharge is responsible to ensure that the information is immediately forwarded to the Chairman of the District Disaster Management Authority . However, in case of earthquake manmade disaster like fire or blast, warning or intimation would be issued by the designated Control Room (Police, Rescue 1122 etc) to the chairman DDMA who will pass the directions to the concerned departments and further inform the high command.

WARNING DISTRIBUTION:

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

PUBLIC INFORMATION:

The distribution of the contact or telephone numbers to the public for disaster information will be the responsibility of the person ideally the Additional Deputy Commissioner (Rev) at the discretion of the Chairman.

COORDINATION AMONG DIFFERENT DEPARTMENTS AND AGENCIES:

The Control room will be responsible for the coordination among different departments and agencies. The required resources will be mobilized and provided at the operational site. Any requests for assistance from outside the district are to be made by the Chairman DDMA.

REPORTING:

It is also the responsibility of the Control Room to collect all the information from the operational sites and after compilation, present the report to the Chairman DDMA for onward submission.

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

After mobilization of all District Resources in case of disaster, supply and need gaps will be assessed and the Deputy Commissioner will decide if military intervention is necessary and for which kind of operations army will be contacted and that will be done after proper intimation and approval of PDMA or high command.

After military involvement the strategy will be devised or amended in a way to smoothly run the operations in collaboration of District Administration and Army.

Volunteer Network

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

The office of Civil Defence will provide the volunteers list and brief about the mechanism to activate them.

RISK ANALYSIS

1. Potential hazards of the district

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

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*

HISTORY OF FLOOD

Floods have been a major hazard in the history of District Okara since last three decades. As there are two rivers flowing in the territory of the District ; River Sutlej & River Ravi)

In 1988, an unprecedented water discharge of about 281,000 cusec in River Ravi and 500,000 cusec in Sutlej caused heavy damage to human lives, livestock, crops and houses. The protection bunds had to be breached to save the Sulemanki and Balloki Barrages. Furthermore, in the same year town of Renala Khurd witnessed washing away of main Bazar and Basti Lal Shah due to breach in Lower Bari Doab Canal (LBDC).

The major impact was displacement of people, the 2nd biggest issue was loss of livelihood that was mainly based on agriculture. This not only made them vulnerable to poverty but also to poor health and hygiene problems. Moreover, the development process had been affected badly. The surplus which was supposed to be spent on development projects, had been used for response and rehabilitation process.

There is medium potential risk of earthquake as District Okara is situated near Nankana Sahib that is situated on the fault line hence makes all the adjacent Districts prone to earthquakes. However, high risk hazard is flood which hits the district almost every alternate year at two points (Ravi & Sutlej).

Triggers:

Rivers like Sutlej and Ravi are the sources of flooding in the District. Major flooding is generally associated with the monsoon low depression that develops in the Bay of Bengal and move across India in west/north –westly direction to enter Pakistan. Heavy rains, release of excessive water more than capacity by India in River Sutlej and River Ravi can trigger floods. Apart from riverine floods that particularly affect District, Flash floods also hit nearby villages which may cause erosion. In recent years, vulnerability of Okara to floods has increased due to climate change, rapidly changing weather patterns, due to global warming. The settlements inside or near the Delta of Rivers, the canal irrigation network and interrupted drainage system are some of the major reasons which can lead towards even urban flooding.

Tectonic movement of earth can trigger earthquake and not only the districts or areas situated on the fault line are vulnerable to devastation but also the neighboring districts share the same risk.

Factors which can trigger up an incident / natural calamity into a disaster can be late response, inadequate or inappropriate help. Poor camp management and record keeping lapses in security system, inconsistent supply of food and water, poor hygiene or sanitary conditions can lead towards serious health issues / outbreak of epidemics.

Moreover, in case of major fire incident, poor infrastructure, unplanned business set ups, failure to follow building safety codes, lack of fire safety & fighting training, equipments, no evaluation drills and staff not following the SOP's and warning, Personal Protective Equipments negligence is the main factor that can trigger a man made disaster.

CLASSIFICATION OF FLOOD

Following is the Classification of Flood:

RIVER RAVI

a)	Low Flood	0.40 to 0.65	Lac Cusecs
b)	Medium Flood	0.65 to 0.90	-do-
c)	High Flood	0.90 to 1.35	-do-
d)	Very High Flood	1.35 to 1.80	-do-
e)	Exceptionally High Flood	1.80 and above	-do-

RIVER SATLUJ

a)	Low Flood	0.50 to 0.80	Lac Cusecs
b)	Medium Flood	0.80 to 1.20	-do-
c)	High Flood	1.20 to 1.75	-do-
d)	Very High Flood	1.75 to 2.25	-do-
e)	Exceptionally High Flood	2.25 and above	-do-

HIGHEST FLOODS**RIVER RAVI**

YEAR	MAXIMUM DISCHARGE (IN Cs)
1955	2,04,360
1957	1,80,205
1988	3,89,345
2013	97,970
2014	1,18,000
2015	65,960
2016	37,165
2017	9,400
2018	5,380
2019	34,900

RIVER SATLUJ

YEAR	MAXIMUM DISCHARGE (IN Cs)
1942	3,25,000
1943	3,09,000
1947	3,60,000
1950	3,32,000

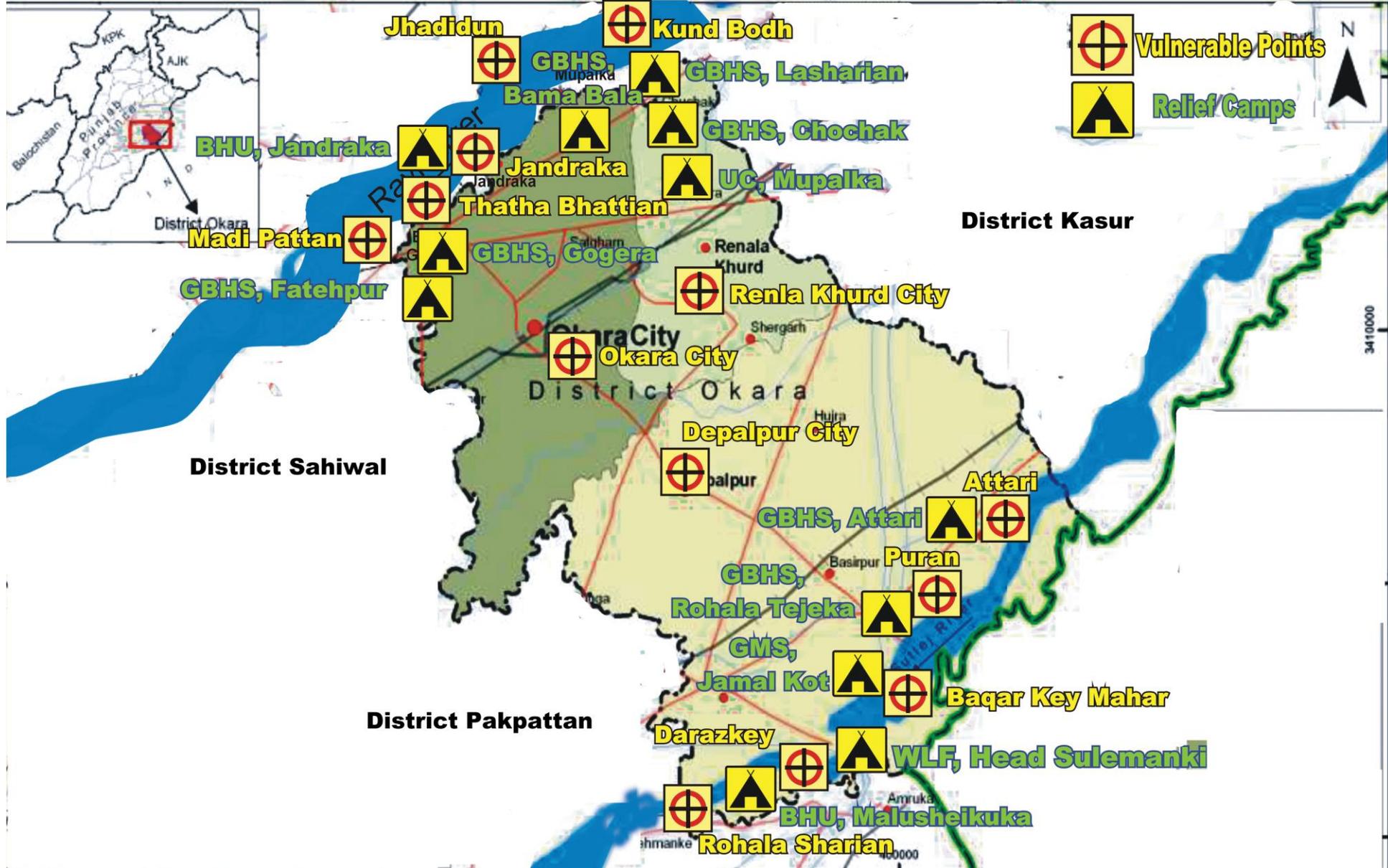
1955	4,22,000
1988	4,00,000
1995	3,02,000
2008	1,02,000
2009	5,000
2010	58,300
2011	70,125
2012	21,587
2013	82,000
2014	26,595
2015	61,009
2016	32,858
2017	16,000
2018	8,000
2019	67,000

Vulnerable areas of District

- Tehsil Okara (06)
 - Kund Bodh
 - Jhaidun
 - Jandraka
 - Thatha Bhattian
 - Madi Pattan
 - Areas of City
- Tehsil Renala Khurd (01)
 - City Area
- Tehsil Depalpur (06)
 - Attari
 - Puran
 - Baqar Key Muhar
 - Darazkey
 - Rohaila Sharian
 - City Area

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

Source:



3. Response & Operational Capacity

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

RELIEF CAMPS

- Total Number of Relief Camps = 12

Okara: 04

Depalpur: 05

Renalakhurd: 03

NUMBER OF VOLUNTEERS

- Civil Defence 100
- Total 100

NO OF NGO'S Associated with Health & Education

- **34**

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	18	17	1	10
OBM	19	17	2	1
De-watering sets	46	22	24	6
Navigators	-	-	-	7
GIS devices	-	-	-	1
Life Jackets	483	468	15	45
Life Ring	141	141	-	40
Life Lines	10	10	-	50
Scuba diving suit with complete accessories	3	3	-	17
First Aid Kits	10	10	-	21
Rescue Bag	10	10	-	69
Safety Harnesses	10	10	-	30
Ambulances	20	20	-	-
Fire Brigade	8	8	-	4
Water Tanks / Bouzers	15	6	9	3
Extendable Ladders	5	5	-	6
Hydraulic Cutter	-	-	-	4
Sonar Rader	-	-	-	3
Jumping Sheet	6	6	-	15
Dumpers	1	-	1	1
Excavators	-	-	-	3
Cranes	-	-	-	2
Bulldozer	-	-	-	1
Boat Carrier/Trolleys	11	4	7	4
Pickups/Jeeps/4x4 vehicles/Mini Trucks	13	4	9	4
Searchlight	70	10	60	64
Tent	813	545	268	50
Mosquito Net	200	200	-	250
Plastic Mat	-	-	-	710
Blanket	-	-	-	500
Any other main relief/rescue equipment	-	-	-	-
Generator Sets	9	5	4	9
Gas-Cutters	-	-	-	2
Floating Rope	4	4	-	202

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.)

- 1- Insecurity of workers working during disaster
- 2- Lack of knowledge of other agencies role & responsibilities
- 3- Lack of communication difficulty in access after increase of flow to 3 lac cusic in river Jhelum
- 4- Lack of inter agency coordination
- 5- Recognition of different abbsticals associated with different locations.
- 6- Increase work load
- 7- Water rescue operation is allowed in day light only
- 8- Lack of information sharing

MITIGATION STRATEGY

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

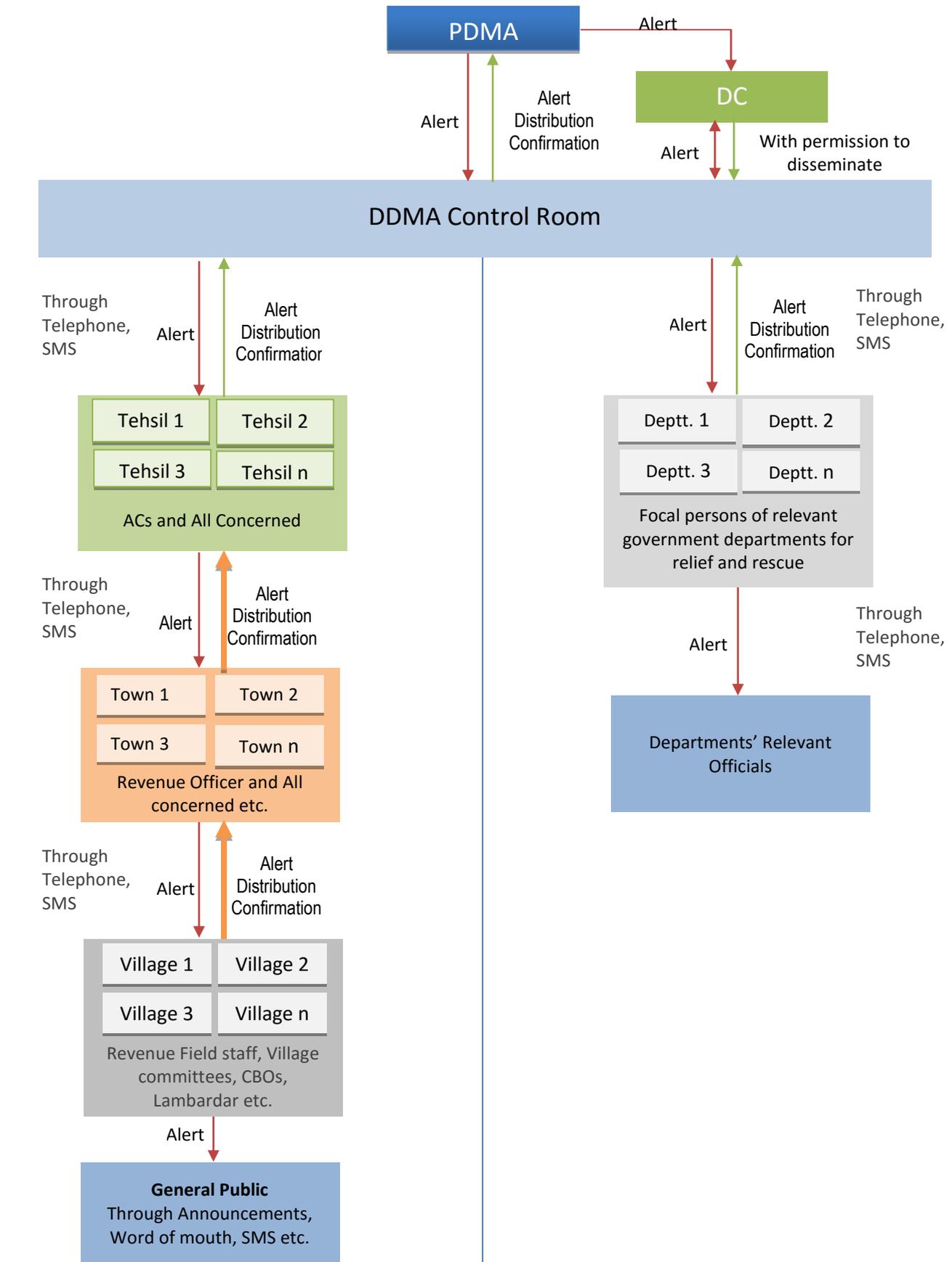
Hazards	Mitigate Actions	Responsible Department
Floods	Liaison with Irrigation and wapda authorities through FMC Embankment of bunds Community awareness Permanent Resetelment of vulunerable area	Revenue Department, Irrigation, Civil Defence, Health, Education, Agriculture, Livestock, Community Development
Urban Flooding	Cleaning of sewerage Community awareness	Concerned Municipal Corporation / Committees Rescue-1122 Civil Defence
Flash Floods	Construct surrounding bunds around vulunerable areas Don't allow people to construct their houses at volunerable areas. The de-silting of nullahs, canals and rivers. Diverting water of nalluh and canals.	
Hill Torrent		

Glacial Lake Outburst Flood (GLOF)		
Landslide		
Tornado		
Earthquake	Constructing earthquick resistance buildings Evacuation Drills	District Govt Rescue-1122
Drought		
Epidemic	Vaccination Health Education Collection of proper data Awareness	District Govt. Health Education Rescue-1122
Fire Incidents	Survey of vulunerable buildings Evacuation Plan & Drills	Civil Defesnce Building Department Labour Department

	<p>Survey of vulnerable factories Assurance of implementation of Fire Safety Assurance of SOP's Use of Personal Protective Equipments Implementation of building codes. Training of employeeed staff Community Awearness Handling of Proper disposal material</p>	<p>Concerned Municipal Corporation / Committees Rescue-1122 Civil defence Environment</p>
<p>Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)</p>	<p>Identification & removal of black spots Community awarenness Implementation of traffic rules Permanent Resetelment of vulnerable area</p>	<p>Civil Defence Rescue-1122 Traffic police District Govt.</p>
<p>Environmental Hazards (industrial accidents, severe pollution etc.)</p>	<p>Training of employeeed staff. Community awarenness Survey of vulnerable buildings Survey of vulnerable factories Handling of Proper disposal material</p>	<p>Environment Rescue-1122 Civil Defence Building Department Labour Department Concerned Municipal Corporation / Committees</p>

EARLY WARNING

Information Flow Diagram



Alertness Levels

Following four levels alertness have been established:

Level-D

(Disaster threat is perceptible)

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.

Level-C

(Alert)

(Warning issued but likelihood of occurrence is less than 100%)

Activities to be undertaken in level D

+

DDMA shall issue "alert" to all concerned for the vulnerable area. DDMA and LDMA (tehsil level) control rooms be made operational 24/7 and ensure availability of all required (available and additional) resources for on call mobilization and monitor the situation 6 hourly. Only DC and DPO shall grant leave according to the situation.

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.

Level-B

(High Alert)

(Disaster threat is imminent)

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.

Level-A

(Red Alert)

(Disaster is materialized)

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 WARNING

The early warning is received from resources like PDMA, Pakistan Metrological Department (heavy rains / wind or storms) and Hydrological Department Wapda (mangla dam, flood / dam out flow), Rescue 122 (Road accidents, Fires, Building Collapse, Drowning), Civil defense & police (riots, violence, terrorist activities), Health (epidemics) through emails, phone calls & sms. Hydrological department

The main source of early warning for flood is Head Ganda Singhwala generating information collected from flood warning station Bhakra Dam (India).

The District Control Room is established in office of the DC Office and ADC(R) is the focal person of District Control Room.

FUNCTIONS OF CONTROL ROOM

- Information collection & dissemination
- To establish Coordination among departments.
- Communicate with concerned department (depending upon the nature & gravity of the warning)
- Dispatch & Tracking of Resources
- Warning distribution among govt department, public & media

The information received at district control room is dispatched to the concerned department (focal person / district head) through email, sms or phone call depending upon the severity of the warning after getting clearance from chairman DDMA. The information to the relevant department is communication into three phases:

Phase1

Notices are served through patwari and gardawar to the concerned vulnerable area regarding alternate arrangements for expensive in case of emergency evacuation.

Phase 2

Mock exercises and drills are conducted through relevant departments regarding evacuation.

Phase 3

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

RESCUE STRATEGY

- *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.*

Evacuation & Medical Assistance:

Emergency Evacuation is the priority in case of any Disaster to not only evacuate the people from hazardous areas but also shift them to safer places e.g camps to save them from further suffering. Keeping in view the nature of disaster mobile medical teams would be dispatched for immediate medical help

Responsibilities of Departments / Agencies:

On receipt of early warning or onset of disaster, Municipal Corporation/Committee, Rescuer 1122, Police, Civil Defense, Health Department would immediately respond to evacuate people from hazardous areas and simultaneously accommodate them in camps, once the evacuees reach camp, all concerned departments e.g Health, Municipal Corporation/Committee, WAPDA, Police, Livestock and civil defence would setup their mobile units to meet the basic human need of the affected people and livestock.

Support from Pakistan Army:

The Chairman DDMA decide when Pakistan Army shall be requested to intervene and support the response to a disaster. He requests in case if District Resources cannot meet the response needs e.g in case of evacuation more boats and man power is required to evacuate large number of people in short period of time. Moreover, in case of earthquake or building collapse etc when search and rescue needs extra resources as per severity of disaster Pakistan Army can be requested to assist.

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*

Collection of DATA:

Municipal Corporation/Committee concerned on direction of Additional Deputy Commissioner (Rev) will assess the damage and losses union wise so that data compilation is done in an organized manner. Once it is compiled, it would be verified from other responding department too, the purpose is to avoid any fictitious or wrong information to be added in the final damage and loss assessment report. The Additional Deputy Commissioner (Rev) communicates the final report to the Chairman DDMA (The DC) and he will communicate to the higher Authorities.

Priority Needs:

Keeping in view the nature and severity of disaster priority needs will be decided. In case of floods after safe evacuation the foremost take is to temporarily settle the displaced people into camps and provide them with basic

facilities e.g. foods, health, water & sanitation, security and any other specific need (e.g. disable persons, unaccompanied children facilitation etc).

Activities for Effected Population:

Affected or displaced people will be provided by shelter and other basic facilities. All the departments will provide help as per already defined responsibilities in a coordinated manner and submit daily activity report for assessment of need and supply gaps analysis.

Assistance Provide:

Shelter, food, water and sanitation facilities, health (physical and psychological) security, livestock management and other specific assistance as per any special need.

Standardization:

Standardization of all food packages, tents, blankets etc will follow the International Standards for Humanitarian Assistance by International Organization of Migration which minimum standards are defined those meet the requirements of needs for a dignified living even in camps.

Humanitarian Assistance:

Administration Desk for better management of camps following complaint cells, food distribution cell, desk for unaccompanied children and handicapped individuals to addren all the displaced people in a well coordinated manner to avoid duplication and better assessment of gaps. In case, if any duplication or failure to provide sufficient assistance all the designated camps will tele their details and identify the issue and rectify where necessary to avoid any long term is he.

Minimum standards:

Minimum International Stadards for Humanitrain Assistance will be followed to respect the human dignity.

Capacity of District:

District Okara can accommodate 100 families in case of any disaster.

For the shake of effective and realistic approach, all the stakeholder departments will be trained and provided with charter of Humanrtarian Assistance that contains all the guidelines how to addren these sensitive issues. Moreover, in face of disaster, all the concered departments will follow the same guidelines in Humanrtarian Assistance set up and furnish a certificate of implementing the standards in true letter and spirit. Aftereads, the monitoring committee will verify if the Humanrtarian Assistance guidelines have been followed or not.

Camps:

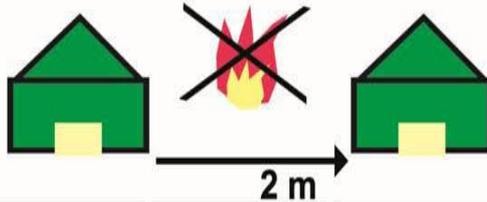
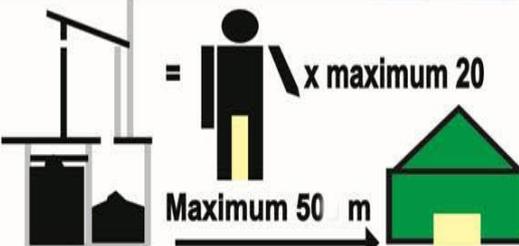
Camps would be established in areas accessible by metaled roads so that provision of essential facilities is not difficult. The scale of these settlements may vary from a few tents to larger groups of 50 tents.

Camp sites selected should be safe, accessible and far from other hazards and risks areas. The following specifications are the minimum standards of the services that are to be provided to the inhabitants of tent villages:

TOOL 27 - SPHERE STANDARD MATRIX (CAMP MANAGEMENT IN PRACTICE BOOKLET)

TECHNICAL STANDARDS AND PRACTICE

Standards guide planning and set-up of sites, to provide a safe, secure and healthy environment for the camp residents, and access to a minimum level of services.

Type of Facility		SPHERE Indicator	
Camp Area	Total open space	30-45 m ² per person	 30 - 45 m ²
	Fire breaks	2 m - minimum distance between tents	
Living Area	Covered floor area	3.5 m ² per person	
	Water Points	1 water tap per 250 people 500 m from tent	
	Latrines	1 per 20 people 50 m away from tent	
	Refuse Disposal	100 m from tent	
Water Use	Total Basic Water Needs	7.5 - 15 liters per person per day Survival water intake need; basic hygiene; basic cooking.	

ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

S#	Location	No. of persons which can be accommodated	GPS Coordinates
1	Govt. Boys High School Lasharian, Tehsil Okara	500	X: 31.05 Y:73.52
2	BHU Jandraka Tehsil Okara	200	X: 31.06 Y:73.43
3	Govt. Boys Higher secondary School Gogera. Tehsil Okara	2000	X: 30.96 Y:73.32
4	Govt. Boys High School Fatehpur Tehsil Okara	700	X: 30.95 Y:73.28
5	Govt Boys High School Attari Tehsil Depalpur.	300	X: 30.60 Y:74.04
6	Govt Boys High School Rohela tejeka Tehsil Depalpur.	500	X: 30.52 Y:73.95
7	Govt. Middle School, Jamal kot Tehsil Depalpur.	1500	X: 30.45 Y:73.83
8	Wild Life Park Head sulemanki, canal band Tehsil Depalpur.	1200	X: 30.37 Y:73.86
9	BHU Malhushekhuka Tehsil Depalpur.	200	X: 30.36 Y:73.71
10	Govt. Boys High School, Chuchak Tehsil Renala Khurd	500	X: 31.06 Y:73.62
11	Union Council Office Mupalky Tehsil Renala Khurd	500	X: 31.05 Y:73.36
12	Govt Boys High School Opposite Tehsil Office Renala Tehsil Renala Khurd.	1500	X: 30.87 Y:73.59

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

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Okara, Renala Khurd, Depalpur	UC. No. 1, 2, 3, 4, 5, 12, 14, 23, 26 (Tehsil Okara), UC. No. 103 to 111 (Tehsil Depalpur), UC. Mupalky, (Tehsil Renala Khurd)	Names of revenue Estates are given below.	-Do-
Urban Flooding	Okara, Renala Khurd, Depalpur	UC. No. 89 to 100 (Tehsil Okara), UC. No. 103 to 111 (Tehsil Depalpur), UC. No. 36, 39, 102 (Tehsil Renala Khurd)	1/4L, 1-A/4L, 2/4L, 5/4L, 54/2L, Depalpur, Baseerpur, Havali, Hujra, Mandi Ahmad Abad, 21/2L, 22/2L, 28/2L.	-Do-
Flash Floods				
Hill Torrent				
Tornado				
Earthquake				
Drought				
Epidemic				

Environmental Hazards (industrial accidents, severe pollution etc.)				

LIST OF VILLAGES LIKELY TO BE AFFECTED DUE TO FLOODS / RAINS

Keeping in view the past experiences the following villages are likely to be affected due to floods and rains.

TEHSIL OKARA

Sr.#	NAME OF VILLAGE	S.#	NAME OF VILLAGE	S.#	NAME OF VILLAGE
1	Mangan	16	Bonga Kharak Singh	32	Dillu Wattoo
2	Lashari	17	Jandraka	33	Fateh pur
3	Dula	18	Jawayia Khitchi	34	Sona proka
4	Thatta Lakhan	19	Gondh Khitchi	35	Gogera
5	Jhedu	20	Nota Khitchi	36	Mansoor ke
6	Thatta Sher	21	Jhedu Mangh	37	Dheru ke
7	Bohar Wala	22	Arazzi Bahar Shah	38	Othwal Khalsa
8	Arazi Mansoor Ke	23	Awan Bhulu	39	Jethiana
9	Thatta Ghana	24	Arazi Jhedu Memora	40	Massan Ke
10	Thatta Manak	25	Khojian	41	Inayat Ke
11	Maroola	26	Shareeb	42	Feroze
12	Bama Zaroon	27	Thatta nam Dar	43	Pir Ali
13	Lehi Zareen	28	Hamanda Ke	44	Padhar Baknera
14	Barwana	29	Baig ke	45	Ano ke
15	Kund Bohar	30	Mari	46	Manki Khitchi
		31	Chanu mattam		

TEHSIL DEPALPUR

S.#	NAME OF VILLAGE	S.#	NAME OF VILLAGE	S.#	NAME OF VILLAGE
1	Bunga Amir singh	37	Dhullay ke mohar	73	Dona matheal salam ka
2	Sander ke	38	Qasam ke mohar	74	Kund amar singh
3	Saddar bala	39	Chak dara	75	Qutab saru
4	Kavni mauja	40	Kund thakar ke jugvera	76	Killa bhagala
5	Baghi pattani	41	Kinder ke	77	Nathu ke abdal
6	Bodal darya-ke	42	Jhanger	78	Daraz ke
7	Jodha	43	Mohammad usman	79	Walla sheikhu ka
8	Barian wala	44	Chak Muhammad Pira	80	Taki jamal
9	Azime ke	45	Moazam	81	Shahreen roheela
10	Mujahid ke	46	Sulemanki	82	Rakh abdal ke
11	Ghulam	47	Mohar sona alias naki ke	83	Dalil ke
12	Khewa bazeeda ke	48	Muhammad yar Chishti	84	Gunj bukhsh bodla
13	Dholla rukna	49	Gung bukhsh sani	85	Wan sarak wali
14	Balanda nanja ka	50	Gung Bukhsh Alias pacca chishti	86	Chak pir
15	Chah dhun wala	51	Jewan pur	87	Kund sardara paroopia

16	Lalu guddar	52	Khokar	88	Baqar ke mohar
17	Bharoola	53	Satia jhangar	89	Jamal bazeeday ka
18	Chak naul	54	Muhammad amira Muhammad Islam	90	Sabu ke mohar
19	Dona ahmed	55	Chak Muhammad Usman	91	Ameer taja ka
20	Dona taja	56	Minay wali	92	Thakar ke makhna
21	Chak lala	57	Baray ke	93	Dhrunga
22	Dona churka	58	Rattay ke	94	Dara
23	Malava methum	59	Chor mahtam	95	Mohar baqar
24	Ghareeb naja ka	60	Sujan singh wala	96	Thakar ke banda
25	Rehman saunka	61	Mohib ali hither	97	Dargan
26	Hama ladhu ka	62	Qaim janday ka	98	2/D
27	Attari	63	Nama kanday ke	99	Sangoo ke
28	Basti karam	64	Rakh thakra	100	Rajowal
29	Puran	65	Azit ke kala	101	Hans hithars wala
30	Talli bhaggar	66	Mallu sheikhu ka	102	Kharral kalan
31	Chah baggar	67	Bhai khan sheikhu ka	103	Qiala sondha singh
32	Bhamu naw abad	68	Mokia chishti	104	Thakar ke manga
33	Faquiria	69	Noor shah	105	Pana mohar
34	Jamsher mohar	70	Wasu salam ka	106	Nehal mohar
35	Ali ke	71	Suja ke	107	Chak baqar ke mohar
36	Mallay ke	72	Jodhay ke		

TEHSIL RENALA KHURD

S.#	NAME OF VILLAGE	S.#	NAME OF VILLAGE	S.#	NAME OF VILLAGE
1	Mupalkey	4	Tattar	7	Jehdu jomion
2	Chakar ke orar	5	Salabat	8	Jora
3	Chakar ke par	6	Goba fazal	9	Melu-ke

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

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	BHU AKBAR	X: 30.89 Y:73.28	PRIMARY	DR. ZUFLIQAR ALI DDHO OKARA 0322-6926286	FLOOD
2	BHU FATEH PUR	X:30.95 Y:73.28	PRIMARY	DR. ZUFLIQAR ALI DDHO OKARA 0322-6926286	FLOOD
3	RHC GOGERA	X: 30.94 Y:73.32	PRIMARY	DR. ZUFLIQAR ALI DDHO OKARA 0322-6926286	FLOOD
4	BHU JANDRAKA	X: 31.07 Y:73.44	PRIMARY	DR. ZUFLIQAR ALI DDHO OKARA 0322-6926286	FLOOD
5	BHU LASHARIAN	X: 31.05 Y:73.52	PRIMARY	DR. ZUFLIQAR ALI DDHO OKARA 0322-6926286	FLOOD
6	BHU KUND BOHAR	X: 31.09 Y:7.54	PRIMARY	DR. ZUFLIQAR ALI DDHO OKARA 0322-6926286	FLOOD
7	BHU ROHELA TEJEKA	X: 30.52 Y:73.94	PRIMARY	DR. RIWAD NOOR DDHO TEHSIL DEPALPUR 0336-8311425	FLOOD
8	BHU MAHANT DARSHAN	X: 30.39 Y:73.80	PRIMARY	DR. RIWAD NOOR DDHO TEHSIL DEPALPUR 0336-8311425	FLOOD
9	RHC MANDI AHMED ABAD	X: 30.65 Y:74.01	PRIMARY	DR. RIWAD NOOR DDHO TEHSIL DEPALPUR 0336-8311425	FLOOD
10	BHU BHEELA GULAB SINGH	X: 30.70 Y:74.06	PRIMARY	DR. RIWAD NOOR DDHO TEHSIL DEPALPUR 0336-8311425	FLOOD
11	BHU JAMAL KOT	X: 30.45 Y:73.83	PRIMARY	DR. RIWAD NOOR DDHO TEHSIL DEPALPUR	FLOOD

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
				0336-8311425	
12	BHU MEHLU SHEIKHU KA	X: 30.36 Y:73.71	PRIMARY	DR. RIWAD NOOR DDHO TEHSIL DEPALPUR 0336-8311425	FLOOD
13	THQ DEPALPUR	X: 30.66 Y:73.66	PRIMARY	DR. RIWAD NOOR DDHO TEHSIL DEPALPUR 0336-8311425	FLOOD
14	BHU MUPALKAY	X: 31.09 Y:73.60	PRIMARY	DR. EHSAN ELAHI DDHO TEHSIL RENALA KHURD 0324-4904648	FLOOD
15	RHC SHAHBHOR	X: 30.70 Y:73.40	PRIMARY	DR. ZUFLIQAR ALI DDHO OKARA 0322-6926286	URBAN FLOOD
16	DHQ HOSPITAL CITY OKARA	X: 30.81 Y:73.44	SECONDARY	DR. SAGHEER AHMED MS 0300-8844799	URBAN FLOOD
17	DHQ HOSPITAL SOUTH CITY OKARA	X: 30.78 Y:73.48	SECONDARY	DR. YASIR IRFAN MS 0300-6997001	URBAN FLOOD

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GPS MEHLO KAY	SCHOOL	X:31.11 Y:73.63	140	GHULAM RASOOL SHAH	0344-7622001
2	GPS THATHA WAHAB KA	SCHOOL	X:31.01 Y:73.36	141	AHMAD HASSAN	0343-5081129
3	GPS THATHA BHATIAN	SCHOOL	X:30.97 Y:73.31	111	TASADQ HUSSAIN	0331-7313267
4	GPS THATHA NAMDAR	SCHOOL	X:0.00 Y:0.00	80	ABI HUSSAIN	0321-9536455
5	GPS SABOKAY MAHAR	SCHOOL	X:30.49 Y:73.91	98	NASIR HUSSAIN	0346-4329910
6	GPS BAKAR KAY MAHAR	SCHOOL	X:30.47 Y:73.89	95	MUHAMMAD AMIN	0300-5077914
7	GPS GHULLAM AHMED SHAHEED	SCHOOL	X:30.45 Y:73.89	46	INAAM ABID	0333-4109094
8	GPS PUHAN	SCHOOL	X:30.53 Y:73.96	155	ATTIQURAHMAN	0300-6295953
9	GGPS WASOO SALAM KA	SCHOOL	X:30.38 Y:73.82	62	BUSHRA KHAIK DEEN	0300-2488086
10	GGPS MEHLO KAY	SCHOOL	X:31.11 Y:73.63	62	SHAMIM AKHTER	0300-0831121
11	GHS JANDRAKA	SCHOOL	X:31.07 Y:73.44	883	HAFIZ AMAAN ULLAH	0345-7538088
12	GGHS JANDRAKA	SCHOOL	X:31.06 Y:73.43	1206	IQRA JAMEEL	0304-6832669
13	GGPS SHAREEN	SCHOOL	X:30.92 Y:73.26	173	REHANA TABUSSAM	0303-3930771
14	GGPS QAIM JINDE KA	SCHOOL	X:30.36 Y:73.67	126	SAMINA ARSHAD	0300-2472344
15	GGES NAMA JINDAY KA	SCHOOL	X:30.37 Y:73.66	161	ROBINA YASMIN	0333-6689201

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
16	GGPS ABADI	SCHOOL	X:30.72 Y:73.61	92	NASIM AKHTER	0334-7861461
17	GMPS KUNDMORH	SCHOOL	X:31.09 Y:73.54	119	MUHAMMAD SARWAR	0345-4374588
18	GHS ATTARI	SCHOOL	X:30.60 Y:74.04	404	AMJAD ISLAM AMJAD	0300-9805300
19	GHS RATTAYKAY	SCHOOL	X:30.34 Y:73.61	357	MOEEN AHMAD	0333-6942422
20	GHS MEHLOO SHEKHUKA	SCHOOL	X:30.36 Y:73.71	305	UMER FAROOQ	0333-6942660
21	GHS ROHELA TAJEKA	SCHOOL	X:30.52 Y:73.95	485	MUHAMMAD NABI	0347-4554448
22	GGHS HEAD SULEMANKI	SCHOOL	X:30.38 Y:73.84	659	SAEEDA PARVEEN	0340-1055437
23	GHS CHAK GANDA SINGH	SCHOOL	X:30.56 Y:73.95	292	M AMEEN JAVED	0346-7508198
24	GGPS GHULAM	SCHOOL	X:30.60 Y:74.04	71	SHABNAM SIDDIQUE	0311-6403964
25	GGES ATTARI	SCHOOL	X:30.60 Y:74.04	163	SAIMA PARVEEN	0345-4313184
26	GGPS DONA AHMED	SCHOOL	X:0.00 Y:0.00	75	AQSA KHALID	0304-6835787
27	GGPS BASTI BAHADUR	SCHOOL	X:30.45 Y:73.84	55	RAZIA YOUSAF	0302-5969721
28	GGPS DULAY KE MOHAR	SCHOOL	X:30.49 Y:73.89	57	SHAHEEN AKHTER	0345-0427343

ANNEX V: LIST OF INDUSTRIES WITH THEIR RISK LEVEL

As Reported by District Officer (IPW & M), no major Industry exists in District Okara with Chemical, Biological, Radiological, Nuclear hazards.

ANNEX VI: LIST OF NGO WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Maria and Michele Modugno Foundation, Rehmpur 6/4-L, Okara	Local	District Okara	Educational and Health etc.	Adil Parvaiz	0300-4080057
2	AL Furqan Welfare Society, Faisal Colony No. 1, Okara	Local	District Okara	Educational	Abdul Majid	0321-6953500
3	Anjuman Faizan-e-Ghousia Depalpur	National	Punjab	Educational, Health	Murad Ali Shah	0301-4429292
4	Noble Aims Educational Society, 73 Aziz Yaqub Town, Main Street, Okara	Local	District Okara	Educational	Ch. Kamran Saeed	0333-6930721
5	Khair ul Fazal Welfare Trust Society 36-37/2-RA Tehsil & District Okara	Local	District Okara	Health	Haji Munir Ahmed	0321-4359990
6	Sofa Education Society Ayub Park Okara	Local	District Okara	Education	Ch. M. Sharif	0313-6510766
7	Ok Barbers and Hair Dresser Charitable Society Gali No. 01 D, Block Okara	Local	District Okara	Charitable	Zafar Iqbal	0301-7304208
8	Iqra Science Model Education Society, 41 Model Town, Okara	Local	District Okara	Education	Abdul Hameed	0331-7454293
9	Shaheen Educational and Welfare Foundation, Faridabad Okara	Local	District Okara	educational	Safdar Abbas	0320-1748288
10	Society of Imparting knowledge and Education, 165 Rehmat Ullah Town, Okara	Local	District Okara	Education	Rai Shafqat Razzaq	0346-7425846
11	The Educators. Al Aleem Canal Campus Society, Near Canal rest house, Okara	Local	District Okara	Education	Abdul Rehman	0300-6955114
12	Schollars Education Promotion Society Inside Scholar Public School Sahiwal Road, Okara	Local	District Okara	Education	Munawar Javed	0321-6963502

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
13	Unique Education Society, Tehsil Road, Opposite Company Bagh, Okara	Local	District Okara	Education	Abdul Khaliq	0322-6954959
14	Anjuman Behbood e Insaniat Society Ghafoor Colony, 27 wali sarak, Okara	Local	District Okara	Education	Ch. Khalid Madood	0345-7500295
15	Kishwar Educational Society Depalpur	Local	District Okara	Education	Mian M. Abdullah	0345-6968201
16	Anjuman Muhiban-e- Muhammad wa Aal-e- Muhammad Imam Bargah Qasr-e- Hussain Basirpur Tehsil Depalpur	Local	District Okara	Relegious	Syed Mukhtar Abas	0300-8801005
17	Professional Faroogh-e- Taleem Socieity, Nau Bahar Colony, Depalpur	Local	District Okara	Educational	Rao Inam Ali Khan	0300-6967460
18	Gems Educational Society Haveli Road, Hujra Shah Muqem, Tehsil Depalpur	Local	District Okara Tehsil Depalpur	Education	Ahmed Ali	0300-7952103
19	Shah Muqem Education Society Chowk Hujra Shah Muqem Tehsil Depalpur	Local	Tehsil Depalpur District Okara	Education	Amanat Ali	0345-6699777
20	Reflections of Hope, Foundation H# 669 St# 03 C, Block Anwar Shaheed Colony, Renala Khurd,	Local	Renala Khurd	Charitable	Tariq Masih	0300-7957944
21	Anjuman Falah e Millat Firdous Town, G.T Road, Okara	Local	District Okara	Religious Education & Charitable	Eng. Salman	0302-8460846
22	Mouasasa tul Hassan Al Khairiya Foundation Near Kothi Bagh Wali Bhuman Shah Tehsil Depalpur	Local	Tehsil Depalpur District Okara	Charitable	Abdul Haseeb ul Hassan	0300-8089098
23	Mile Stone Educational Society 251-Main Sabir Pia town, Depalpur Chowk okara	Local	Distirct Okara	Educational	Rana Mazhar Rafique	0300-6953003
24	Hazrat Ghous Bala Peer Welfare Foundation,	Local	District okara	Education & Health	Syed Ali Abbas Shah	0301-8699310

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.
	Basement Gillani Hospital Faisalabad Rd, Okara					
25	Foundation for Awareness and Civic Engagement, Suit No. 306, 3rd Floor Waqar Center, MA Jinnah Road, Okara	Local	District Okara	Education / Charitable	Altaf Hussain	0305-8839930
26	Rice Grain Traders Welfare Association, 85-A, Grain market Okara	Local	District	Charitable	Rana Abdul Basit	0300-6959104
27	haram Helping Hand Foundation, Faisalabad Road, Street No. 1, Rehmatpur, Okara	Local	District Okara	Charitable	Memona Tariq	0321-6955885
28	Anjuman Arhtian Sabzi Mandi Okara	Local	Sabzi Mandi Okara (Arhtian)	Charitable	Ch. M. Ashraf	0300-6959490
29	Anjuman ittehad Arhtian Sabzi Wa Fruit Market Okara 86-87 Sabzi Mandi Road, Okara	Local	Sabzi Mandi Okara (Arhtian)	Welfare	Ch. M. Tahir	0321-6950048
30	Arhtian Association New Fruit & Vegetable Mandi Depalpur,	Local	New Fruit & Vegetable Mandi Depalpur, (Arhtian)	Welfare	Malik Qasim Ali Jani	0301-8824002
31	Haqiqi Anjuman Arhtian Fruit & Sabzi Mandi Depalpur	Local	Arhtian Fruit & Sabzi Mandi Depalpur	Welfare	Haji Gulzar Hussain	0300-6979030
32	Markzi Anjuman Tajran Okara	Local	District Okara	Welfare	Ch. Saleem Sadiq	0300-6959590
33	AL-Shifa Society G.T Road, Akhtarabad Tehsil Renala Khurd, Okara	Local	District Okara	Welfare	Eng. Salman	0302-8460846
34	Markzi Anjuman Tajran Renala Haqiqi, Renala Khurd, Okara	Local	Renala Khurd	Welfare	Ch. Shakeel Ahmed	0300-6959686

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS / DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Capt. (R) Shah Mir Iqbal	044-9200251	0409200499	03009348113
2	Commissioner	Ahsan Waheed	040-9200491		0304-0920056
3	RPO	Hamayon Bashir Tarrar	040-9200011-85	044-9200027	
4	DC	Usman Ali	044-9200025-26	044-9200352	0341-0922063
5	DPO	Umer Saeed Malik	044-9200351		03321600777
6	ADC(R)	Capt. (R) Shah Mir Iqbal	044-9200251		03009348113
7	DEO Rescue 1122	Zafar Iqbal	044-9200009	044-9200231	0333-4044279
8	DO Civil Defence	Sardar Ali	044-9200259		0333-6949788
9	SNA	Hasan Farooq Wattoo	044-9200269		0322-6968015
10	AC – Okara	Syeda Amna Mododi	044-9200252		0322-4921371
11	AC – Depalpur	Khalid Abbas	0444-540425		0300-7921000
12	AC – Renala Khurd	Zoha Shakir	044-2636089		0335-9717971
13	Tehsildar - Okara	Ghulam Mustafa Ansari	044-9200253		0300-4127204
14	Tehsildar – Depalpur	Saleem Mushraf	--		0300-4708436
15	Tehsildar - Renala Khurd	Ahmad Raza Sultan	044-2636146		0322-4131377
16	CO – MC Okara	Fida Iftikhar Mir	044-9200454		0345-6227555
17	CO –MC Depalpur	Zahid Afzal	0444-544364		0300-6969369
18	CO – MC Renala Khurd	Fiaz Hashmi	0442-635215		0300-9479295
19	CEO Education	Sohail Azhar Rana	044-9200051		0312-5577777
20	XEN Irrigation LBDC	Hamad Ahmad	044-9330009		0321-7613969
21	XEN Irrigation Sulemanki	Muhammad Junaid Butt	0444-780155		0304-0826776
23	DD Agriculture	Shahbaz Ahmad	044-9200264		0345-4309136
24	CEO Health	Dr. Ijaz Hussain Awan	044-9200136		0333-7407400
25	DMO	Syeda Amna Mododi	044-9200256		0322-4921371
26	MS DHQ Hospital	Dr. Sagheer Ahmad	044-9200090		0300-8844799
27	ADL	Dr. Rana Abdul Rauf	044-9200268		0337-9683047

ANNEX VIII: LIST OF VOLUNTEERS

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1.	Muhammad Kamran Khan S/O Abdul Elhai Khan	35302-2069826-3	53/2.I Okara	0306-9013664	-	24 Hour
2	Muzamal Hussain S/O Younis Ali	35302-4324887-3	Chak Akbar Chah Santa Okara	0345-7546742	-	24 Hour
3	Ahsan Ali S/O Abdul Nasir	35302-9811767-5	Shaikh Basthi Okara	0312-1299886	-	24 Hour
4	Rashid Ali S/O Irshad Ali	35302-2364245-1	Samadpura Okara	0305-6701462	-	24 Hour
5	Tanveer Hussain S/O Muhammad Hussain	35302-7461111-9	Chak No. 24/2.R Okara	0343-4669210	-	24 Hour
6	Muhammad Ahmed S/O Saifullah	35302-4838327-1	53/2.L Okara	0304-3538378	-	24 Hour
7	Muhammad Asad S/O Saifullah	35302-9679843-9	-do-	0308-4743069	-	24 Hour
8	Muhammad Yousaf S/O Umar Farooq	35302-9235085-1	-do-	0302-3359797	-	24 Hour
9	Uasma Bin Zakha S/O Zakhauallah Khan	35302-2466666-1	-do-	0304-8776353	-	24 Hour
10	Muhammad Aqib Aslam S/O Muhammad Aslam	35302-8945994-1	-do-	0303-9370538	-	24 Hour
11	Wajahat Hussain S/O Sardar Muhammad	35302-6848268-1	-do-	0322-6977169	-	24 Hour
12	Javad Hmeed S/O Abdul Hameed Khan	35302-5397834-5	-do-	0304-0253553	-	24 Hour
13	Zubir Hameed S/O Abdul Hameed Khan	35302-5396789-5	-do-	0307-5775123	-	24 Hour
14	Rao Qasim Iqbal S/O Muhammad Iqbal	35302-21980912-3	-do-	0303-4764292	-	24 Hour
15	Muhammad Umar Farooq S/O Rao Nasar Ahmed	35302-7612506-1	-do-	0302-3900053	-	24 Hour
16	Talha Nadeem S/O Nadeem Mustaq Awan	35302-7259528-1	-do-	0309-1157183	-	24 Hour
17	Muhammad Aqeel S/O Muhammad Aslam	35302-9024824-3	-do-	0304-5562252	-	24 Hour
18.	Bilal S/O Muhammad Akram	35302-9323007-7	-do-	0308-2532615	-	24 Hour

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
19.	Muhammad Aqeel S/O Abdul Sattar	35302-9997391-7	-do-	0305-8073853	-	24 Hour
20.	Zia-ur-Rehman S/O Abdul Nasir	35302-8485045-9	-do-	0307-7543793	-	24 Hour
21.	Ali Raza S/O Muhammad Akram	35302-3919079-5	-do-	0334-0681495	-	24 Hour
22.	Sajid Ali S/O Abbas Ali	35303-2389493-7	13/1L Tehsil Renala District Okara	0308-6056542	-	24 Hour
23.	Sohail Saleem S/O Muhammad Saleem	35303-8898612-7	-do-	0305-5676390	-	24 Hour
24.	Zulqarnain S/O Zulfqar Ali	35303-9463198-5	-do-	0303-6942313	-	24 Hour
25.	Zain-ul-Abiden S/O Zulfqar Ali	35303-1621528-3	-do-	0305-6729213	-	24 Hour
26.	Muhammad Ateeq Tariq S/O Zulfqar Ali	35303-0680106-3	-do-	0317-7653770	-	24 Hour
27.	Muhammad Raiz S/O Main Muhammad Hussain	35302-9122942-3	25/2.R Satgara Okara	0342-6746279	-	24 Hour
28.	Muhammad Rafiq S/O Muhammad Hanif	35302-4995084-7	Samdpura Okara	0312-6985854	-	24 Hour
29.	Muhammad Rizwan S/O Muhammad Sadique	35302-1265769-5	1/4L Okara	0307-0507528	-	24 Hour
30.	Hassan Ali S/O Muhammad Ashraf	353020477486-3	5/4L Okara	0304-7957756	-	24 Hour
31.	Muhammad Arif S/O Muhammad Sharif	35302-9845432-7	46/2L Okara	0304-6902272	-	24 Hour
32.	Muhammad Shahzad Noor S/O Noor Hassan	35302-1887548-1	Faisal Mehmood Colony Okara	0303-9782009	-	24 Hour
33.	Zeeshan Ali S/O Muhammad Ramzan	35302-5553777-7	-do-	0302-5207009	-	24 Hour
34.	Arslan Ali S/O Muhammad Sharif	35302-5201907-9	Kot Liqueat Hayat Okara	0301-5363988	-	24 Hour
35.	Noor Ahmed S/O Abdul Ghaffor	35302-8858821-1	Saddar Gogera Okara	0346-4726329	-	24 Hour
36.	Abid Ali S/O Allah Rakha	35302-1926268-7	Muzafar Colony Okara	0313-4749234	-	24 Hour
37.	Zahid Hussain S/O Abdul Rasheed	35302-6685372-3	25/2.R Okara	0304-7796785	-	24 Hour
38.	Hamza Pervaz S/O Muhammad Pervaz	35302-2426565-7	Faisal Mehmood Colony Okara	0304-4519021	-	24 Hour

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
39	Ghullam Rasool S/O Muhammad Rasheed	35302- 7774132-7	-do-	0340-4596297	-	24 Hour
40	Uamir Qayoum S/O Abdul Qayoum	35302- 6371782-7	Military Farm Okara	0307-7745699	-	24 Hour
41.	Muhammad Tuseef S/O Muhammad Rafiq	35302- 2804275-3	Shaikh Basti Okara	0311-6440115	-	24 Hour
42.	Hamza Abdul Rehman S/O Muhammad Ishaq	35302- 7903860-3	Kot Licut Hayat Okara	0311-1662998	-	24 Hour
43.	Mudassir Hussain S/O Younis Ali	35302- 8271950-3	Chak Akbar Chah Sanata Okara	0303-2593398	-	24 Hour
44.	Shabbar Raza S/O Shabir Hussain	35302- 9545714-7	Main Colony Okara	03026535799	-	24 Hour
45.	Muhammad Imran S/O Abdul Hameed	35302- 8482101-1	Dara pur Okara	0300-7831198	-	24 Hour
46.	Sohail Sajjad S/O Noor Hassan	35303- 3758043-1	12/1AL Okara	0306-1271581	-	24 Hour
47.	Fahad Shafique S/O Muhammad Shafique Javad	35302- 9909948-1	Sirki Muhalla Okara	0303-8647105	-	24 Hour
48.	Muhammad Asif S/O Nazir Ahmed	35302- 4835699-7	Chak No. 3/G.D Okara	0346-4011963	-	24 Hour
49.	Muhammad Munsoor S/O Saleem Ahmed Khan	35302- 6859924-5	Wahab Town Okara	0301-3168569	-	24 Hour
50.	Ali Haider Khan S/O Muhammad Saleem Ahmed Khan	35302- 7237032-7	-do-	0309-7272833	-	24 Hour
51.	Muhammad Nawaz S/O Sarfarz Ahmed	33106- 8478293-9	Khusi Town Okara	0304-0171882	-	24 Hour
52.	Abdul Shakoor S/O Noor Samad	35302- 9575918-5	25/2.R Okara	0308-1359940	-	24 Hour
53.	Irslan Sadique S/O Muhammad Sadique	35302- 0405764-5	-do-	0348-1824425	-	24 Hour
54.	Abdul Shakoor S/O Muhammad Sakhi	35302- 6289902-7	Samadpura Okara	0309-8538172	-	24 Hour
55.	Muhammad Asif S/O Showqat Hussain	35302- 4178070-5	Kot Nail Sing Okara	0301-7142870	-	24 Hour
56.	Tuseef S/O Zaheer Ahmed	35302- 6343018-3	Kot Nail Sing Okara	0304-7626519	-	24 Hour
57.	Azam Showqat S/O Showqat Hussain	35302- 0631599-1	Kot Nail Sing Okara	0311-0651102	-	24 Hour
58.	Mubbasir Hussain S/O Younis Ali	35302- 0247785-1	Chak Akbar Cha Sanata Okara	0349-3412839	-	24 Hour
59.	Nawazish Ali S/O Muhammad Akbar	35302- 3491210-3	Kot Nail Sing Okara	0306-7854061	-	24 Hour

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
60.	Muhammad Usman Sabir S/O Muhammad Sabir	36502-0964099-1	District Complex Okara	0307-5697516	-	24 Hour
61.	Mosin Munir S/O Munir Ahmed	35302-3935086-3	Kot Nail Sing Okara	0306-0480045	-	24 Hour
62.	Amanat Ali S/O Muhammad Gulzar	35302-5812032-9	Muzaffar Colony Okara	0322-0700931	-	24 Hour
63.	Hameed Ali S/O Bala	35302-0625894-9	Kot Nail Sing Okara	0302-6921125	-	24 Hour
64.	Ali Sheron S/O Shahid Mehmood	35302-6827306-5	Samadpura Okara	0300-372465	-	24 Hour
65.	Kashif Naeem S/O Dost Muhammad	35302-6170730-5	Dubai Town Okara	0303-6964663	-	24 Hour
66.	Muhammad Zahaid Iqbal S/O Muhammad Iqbal Shahid	35302-1869262-3	-do-	0322-8738189	-	24 Hour
67.	Arslan Raja S/O Meharban Akston	35302-0995837-7	9/4-L Okara	0302-7757079	-	24 Hour
68.	Ramesh S/O Ammanual Mashi	35302-2467967-9	-do-	0315-1648584	-	24 Hour
69.	Babar Mashi S/O Yaqoob Mashi	35302-5797444-5	-do-	0307-4254286	-	24 Hour
70.	Muhammad Arif Akram S/O Muhammad Akram	35302-9938245-1	Ghaffor Colony Okara	0331-9876984	-	24 Hour
71.	Waseem S/O Haji Rafiq	35302-9781694-1	1/4-L Okara	0322-6953245	-	24 Hour
72.	Shafique Ahmed S/O Abdul Majeed	35302-1571040-1	Ahmedabad Okara	0303-6977608	-	24 Hour
73.	Abdul Rehman S/O Muhammad Pervaiz	35302-84454454-3	Faisal Mehmood Colony Okara	0336-7912879	-	24 Hour
74.	Muhammad Imran Asghar S/O Asghar Ali	35302-0878382-3	32/2.R Okara	0323-4178391	-	24 Hour
75.	Muhammad Asif S/O Nazir Ahmed	35302-4835699-3	13/G.D Okara	0346-4011963	-	24 Hour
76.	Ali Raza S/O Zahaeer Ahmed	35302-3998531-9	Kot Nail Singh Okara	0304-6552840	-	24 Hour
77.	Waseem Akram S/O Muhammad Suleman	35302-2803084-1	Shaikh Basti Okara	0333-6963470	-	24 Hour
78.	Sajjad Ahmed S/O Abdul Majeed	35302-5958271-9	42/2L Okara	0304-9015149	-	24 Hour
79.	Muhammad Hamza S/O Muhammad Akbar	35302-0229348-5	Kot Nail Singh Okara	0305-7609400	-	24 Hour
80.	Muzamal Hussain S/O Abdul Majeed Ahmed	35302-40439633-3	53/2.L Okara	0349-4362123	-	24 Hour
81.	Shahid Nazeer S/O Nazeer Ahmed	35302-9710603-1	Kot Nail Singh Okara	0300-7467393	-	24 Hour

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
82.	Sohaib Ahmed S/O Iqbal Anjum	35302-2290476-3	Mall Godown road, Mandi Bazaar Okara	0305-7132024	-	24 Hour
83.	Abdul Whaid S/O Muhammad Ghaffor	35302-2067651-3	Faisal Mehmood Colony Okara	0303-7731949	-	24 Hour
84.	Muhammad Walid S/O Shahabudin	35302-0297444-5	Gulshan Fatima Colony Okara	0300-4687874	-	24 Hour
85.	Muhammad Saim S/O Muhammad Tariq	35302-3794222-7	Kot Nail Singh Okara	0303-0136578	-	24 Hour
86.	Muhammad Asim S/O Muhammad Tariq	35302-7034862-3	-do-	0316-0648081	-	24 Hour
87.	Muhammad Tahir Javad S/O Muhammad Isrial	35302-2189272-7	Faisal Mehmood Colony Okara	0302-7917223	-	24 Hour
88.	Adeel Sohail S/O Abdul Rasheed	35302-6095052-7	Gulshan Fatima Okara	0305-7351902	-	24 Hour
89.	Saleem Ahmed S/O Muhammad Liquat Ali	35302-4852002-5	Hussain Colony Okara	0300-7533997	-	24 Hour
90.	Sulman Ghafar S/O Abdul Ghafar	35302-0888104-1	Samadpura Okara	0305-7134886	-	24 Hour
91.	Muhammad Iqbal S/O Ghafor Ahmed	45304-8599959-7	55/2.L Okara	0308-3437604	-	24 Hour
92.	Usman Ghanni S/O Muhammad Iqbal	35302-5368562-3	Ghafor Colony Okara	0309-4754730	-	24 Hour
93.	Muhammad Irshad S/O Rasheed Ahmed	35302-9522144-7	32/2.R Okara	0334-7003200	-	24 Hour
94.	Ali Ahmed S/O Muhammad Ali	33106-0936258-1	Sabari Colony Okara	0343-6770878	-	24 Hour
95.	Bashahrat Ali S/O Sanaullah	35302-9221203-7	Zakira Gahsgori Okara	0343-5563046	-	24 Hour
96.	Muhammad Naveed S/O Muhammad Jamil	35302-5720824-9	Kot Nail Singh Okara	0306-1510079	-	24 Hour
97.	Muhammad Faisal S/O Muhammad Saleem	35302-8107245-1	-do-	0321-7925324	-	24 Hour
98.	Muhammad Ahmed S/O Muhammad Javad	35302-4027445-3	Kot Jinnahabad Okara	0312-6698258	-	24 Hour
99.	Faizan Sattar S/O Abdul Sattar	35302-0910943-9	53/2.L Okara	0302-8865300	-	24 Hour
100.	Muhammad Haroon S/O Abdul Majeed	35302-4908884-7	-do-	0306-7862577	-	24 Hour

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. Haseeb Khan	36502-1653221-1	Sahiwal	0345-7433268	B ⁺ ve	24 Hour
2	Adnan Khaliq	35302-2353283-5	Okara	0345-9000043	O ⁺ ve	24 Hour
3	Ali Sher	35302-1903724-4	Okara	0323-5424512	B ⁺ ve	24 Hour
4	Ghulam Murtaza	35303-3628514-7	Renala Khurd	0333-6987824	A ⁺ ve	24 Hour
5	Muhammad Imran Shafi	35032-9114971-1	Okara	0321-7096355	B ⁺ ve	24 Hour
6	Muhammad Javed Iqbal	35302-2240456-1	Okara	0321-7086765	B ⁺ ve	24 Hour
7	Muhammad Rizwan Javed	35302-3036426-1	Okara	0304-8175969	B ⁺ ve	24 Hour
8	Nazar Hussain	35302-4252766-5	Bangla Gogera	0304-9829683	AB ⁺ ve	24 Hour
9	Muhammad Azam	35301-2473917-5	Depalpur	0340-6062068	B+ve	24 Hour
10	Zahid Iqbal	35302-7585282-3	Bangla Gogera	0346-7415988 0334-7415988	O ⁺ ve	24 Hour
11	M. Naeem	35302-8593159-5	Okara	0344-6749269	A+ve	24 Hour
12	Faisal Rasheed	35302-0226457-3	Okara	0321-8044144	B+ve	24 Hour
13	Abdul Razzaq	35303-4942388-7	Renala Khurd	0345-7493354	B+ve	24 Hour
14	Imran Akbar	35302-7931666-5	Okara	0346-7427228	O+ve	24 Hour
15	Mubashar Akbar	35302-5997647-7	Okara	0321-6953418	B+ve	24 Hour
16	Nasir Naseer	35303-1233070-1	Renala Khurd	0301-7349502	O +VE	24 Hour
17	M. Abbas	35302-4988843-7	Okara	0342-4166605	A +VE	24 Hour
18	M. Naeem Shahid	35302-5247250-1	Okara	0342-6351963	B +VE	24 Hour
19	Shafqat Ali	35301-6049144-5	Okara	0346-7459469 0343-8111122	O +VE	24 Hour
20	Nasir Bashir	35301-6396519-3	Okara	0300-6016330	B +VE	24 Hour
21	Faheem Iqbal	36502-6296015-5	Okara	0348-8741122	A +VE	24 Hour
22	M. Shafique	35302-7039173-1	Okara	0344-6780369	A +VE	24 Hour
23	Shahid Imran	35302-9312724-5	Okara	0344-6210638 0334-6210638	O +VE	24 Hour
24	M. Sajjad Faisal	35303-3298334-5	Renala Khurd	0302-4921925	AB +VE	24 Hour
25	M. Sadee	35302-7057480-3	Okara	0301-7121122	O +VE	24 Hour
26	Ghulam Murtaza	35302-5423970-3	Okara	0321-7002367	B+VE	24 Hour
27	Mudassar Hussain	35301-3179023-9	Hujra Shah Moqem	0303-7175067	B+ve	24 Hour
30	Noor Hassan	35202-9888332-7	Basirpur	0345-4392085	O+ve	24 Hour

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-141	Nadeem Abbas Rabeera	-	0300-6959550	PP-183	Javed Alla-ud-Din	-	0300-4112779
NA-142	Riaz Ul Haq Juj	-	0300-5113380	PP-184	Syeda Mumint Mohsin (Jugno Mohsin)	-	0300-8415230
NA-143	Rao M. Ajmal Khan	-	0321-4665050	PP-185	Iftikhar Hussain Chacher	-	0345-8412512 0342-0000188
NA-144	Main Moeen Khan Watoo	-	0300-4002334	PP-186	Noor Ul Ameen Watoo	-	0300-4020702
				PP-187	Mailk Ali Abbas Khokhar	-	0300-4309079
				PP-188	Mian Yawar Zaman	-	0301-8697008
				PP-189	Ch Muneeb Ul Haq	-	0300-9895000
				PP-189 (365)	Ijaz Alam Augustine	Minister of Human Rights and Minority Affairs	0300-6973969 0342-5860783
				PP-190	Ghulam Raza Rabeera	-	0300-4270633

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	Chief Officer	Okara	Fida Iftikhar Mir	044-9200454	0345-6227555
2	Chief Officer	Depalur	Zahid Afzal	0444-544364	0300-6969369
3	Chief Officer	Renal Khurd	Fiaz Hashmi	044-2635215	0300-9479295

Town Level

S#	Tehsil	Town	Name	Contact Number	Mobile Number
1	Deplapur	Hujra Shah Muqem	Khawaja Kamran Sadfar	-	0300-4541125
2		Basirpur	Khurshid Rehmani	-	0333-6975988
3		Mandi Ahmad Abad	Umar Farooq	-	0321-1111933
4		Haveli Lakha	Mian Anwar Javed	-	0300-6965183

ANNEX XI: DATA COLLECTION PERFORMAS

P1: House Damage Assessment

District: _____

Date: _____

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

P2: Deceased Person Reporting Performa

District: _____

Date: _____

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

P3: Injured Person Reporting Performa

District: _____

Date: _____

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

P4: Cattle Head Perished

District: _____

Date: _____

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

P5: Crop Damages

District: _____

Date: _____

S#	Tehsil	Qanoongoi	Union Council	Mauza	Farmer Name	Land owner/Tenant	CNIC of farmer	Contact number	Type of Crops	Total land affected (acres)	% of Mauza affected

P6: Relief Distribution Tracking Performa

District: _____

Date: _____

S#	Location/ Destination	Arrival Date and time	Items	Quantity	Items short (if any)	Items sent by	Driver name	Received by	Bilty no

P7: Private Machinery (Boats, Bulldozers, cranes etc.)

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Focal Person: _____

Date: _____

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

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

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

ANNEX XIII: FLOOD BUNDS

INFORMATION REGARDING FLOOD BUND CATEGORY A

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

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

INFORMATION REGARDING FLOOD BUND CATEGORY B

S#	Name of Division	Name of Embankment / Bund	Length (ft.)
SARGODHA ZONE			
1	Rasul Headworks Division	Important / Vulnerable Reaches	10,000
2	Bhakkar Division	-do-	10,000
3	Layyah Division	-do-	10,000
4	Jhelum Division	-do-	5,000
	Total in feet.		35,000
	Total in miles		6.63
FAISALABAD ZONE			
1	Khani Division	-do-	20,000
2	Jhang Division	-do-	50,000
3	Qadirabad Barrage Division	-do-	60,000
4	Burala Division	-do-	35,000
	Total in feet.		165,000
	Total in miles		31.25
BAHAWALPUR ZONE			
1	Punjnad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
	Total in feet.		290,000
	Total in miles		54.92
MULTAN ZONE			
1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	Total in feet.		190,000
	Total in miles		35.98

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

ANNEX XIV: RIVER DISCHARGE RATES

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