

DISTRICT DISASTER MANAGEMENT PLAN 2022



Division:

Faisalabad

District:

Jhang



IDP Camp in 2009



Earthquake



Floods in 2014



Drought

Prepared by: Deputy Commissioner Office Jhang.

Approved by: Deputy Commissioner Jhang.

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	Executive Summary
6.4 Lac out of 30.3 Lac at risk of floods in 2022  21% of total population Risk: High	<p>District Jhang is a land of two rivers Chenab and Jhelum. Floods normally hit the district during the monsoon season starting from early July to late August while overflow of river Chenab and Jhelum in August & September is main cause of flood in Jhang.</p> <p>The plan integrates the standard operating procedures (SOPs) of various provincial government departments and proposes a consistent approach for reporting damages and need assessment for relief.</p>
0 out of 30.3 Lak people at risk of Hill Torrent in 2022  0% of total population Risk: Medium	<p>The plan has been designed on the risk management standards engaging the philosophy of a multi agencies and multi structure approach to risk minimization. The plan identifies the risk environment for the district Jhang and outlines the key institutional and programing components relative to effective risk management and emergency response and recovery.</p>
0 out of 30.3 Lac people at risk of earthquake in 2022  0% of total population Risk: Low	
6.4 Lac out of 30.3 Lac people at risk of epidemic in 2022  21% of total population Risk: Medium	

AIM AND OBJECTIVES

The plan is aimed to manage emergencies by putting in place requisite mitigatory measures using available resources 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 (DDMA) and other district stakeholders to set priorities and provide directions for disaster management
- To define the roles of various stakeholders in disaster management during all the three phases i.e. pre, during and post disaster activities.
- To raise awareness amongst 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 of emergency response through the clarification of goals, strategies, roles and responsibilities
- To strengthen response coordination between government departments and humanitarian organizations (UN agencies, I/NGOs)

District Profile

Jhang in local dialect means grove of trees and was invaded by Alexander the Great on his way back to Macedonia in the 4th century BC. The city of Jhang was founded by Mal Khan Sial in 1462 AD. Sial tribe ruled this city for 360 years. Last ruler of the Tribe was Ahmad Khan (1812 to 1822) before the Sikhs took over. From the Sikhs, Jhang was taken over by the British. The District was established in 1849. Till 1904, the district remained divided into six tehsils, Jhang, Chiniot, Shorkot, Lyallpur (Faisalabad), Samundari and Toba Tek Singh. Major tribes of the district are Sials, Syeds, Awans, Sheikhs, Sipras, Balouch, Nauls, Bhattis.

Socio-Economic Indicators (Average)

S.No.	Particulars	Numbers
1.	Population	3034897
2.	No. of Tehsils	4
3.	No. of UCs (Defunct)	91
4.	No. of Revenue Estates	724
5.	Population Density (people per km ²)	481 / km ²
6.	Family Size	4
7.	Pop Growth Rate	2.16%
8.	PCI	\$ 1386 Rs. 145530/12127
9.	District GDP/Annual Income	Rs.145530
10.	Poverty Rate	22%
11.	Patient/Doctor Ratio	2550/Doctor
12.	AMR	8 Deaths/ 1000 Population
13.	IMR	85 Deaths/1000 Live birth
14.	MMR	225 Deaths/100,000 birth.
15.	Literacy Rate	58%
16.	Global Acute Malnutrition (GAM) rate	15.9%
17.	Severe Acute Malnutrition (SAM) rate	4.1%
18.	Percentage of population having access to clean drinking water	20%
19.	Annual Crime	1159 (in 2021)

Source/Note: Punjab Development Statistics, 2021

Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
2744527	775059	724475	693295	621865	19841

Source/Note: Bureau of Statistics, 2017

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks& Morter)
190053	56732	133321

Source/Note: Punjab Development Statistics, 2021

Area (in acres)

Total Area of District in Km ²	Area under cultivation in Hectares
6162.16	4843450

Source/Note: Agriculture Department, Jhang

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
58%	62%	32%	66%	53%	64%	42.5%

Source/Note: DO Literacy

Government Schools

Private Schools

		Schools	Enrollment			Schools	Enrollment
Total/ Overall		1492	389730	Total/ Overall		673	186643
Boys	Primary	379	76986	Boys	Primary	Boys	Primary
	Middle	96	13077		Middle		Middle
	High	105	69147		High		High
Girls	Primary	741	115484	Girls	Primary	Girls	Primary
	Middle	90	39369		Middle		Middle
	High	81	50755		High		High
Co- Education	Primary	-	-	Co- Education	Primary	Co- Education	Primary

	Middle	-	-		Middle		Middle
	High	-	-		High		High
Special Education		9	830		Special Education		Special Education

Source/Note: DO Literacy

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	21	2	2	14	8	45
No of Students	5720	457	350	2387	1590	10504

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	149	05	-	-	154
Annual OPDs	2108223	2253791	-	-	4362014
No of beds	338	455	-	-	793
Doctors Available	119	403	-	-	522
Paramedical staff	427	89	-	-	506

Livestock: Small Animals (goats, sheep etc.): 657456
etc.): 1162914

Big Animals (cows, buffalos, camel

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
45%	25%	4%	2%	5%	3%	2%	4%	2%	3%	5%

Disaster History - Floods (since 1970)

S#	Year	No. of people affected	No. of deaths	No. of Revenue Estates affected	Houses Damaged (Partially)	Houses Damaged (Fully)	Compensation Paid (Rs.)	Financial Impact (including infrastructure damaged)
1	1973	275477	73	24	9836	4360		
2	1992	707432	19	22	7728	3525		
3	2010	113060	4	323	695	432		
4	2013	60996	3	6	1433	574		
5	2014	460726	11	414	21450	12800		

Disaster History – Other disasters (Since 1970)

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

General Information

Particulars	Detail
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Neighboring districts and their vulnerabilities	Toba Tek Singh, Faisalabad, Chiniot, Sargodha, Khushab, Bhakhar, Layyah, Muzaffargarh, Khanewal. Flood, Epidemics, drought
Weather/Climate pattern	Like max , min , temperature, annual precipitation, storms, heat waves, snow fall etc. The climate here is mild, generally warm temperate. The rainfall in Jhang is significant, with precipitation even during the driest month. The average annual temperature is 21.8 °C in Jhang. At an average temperature of 32.5 °C, June is the hottest month of the year. At 10.2 °C on average, January is the coldest month of the year. The rainfall here averages 679 mm. Precipitation is the lowest in November, with an average of 9 mm. In August, the precipitation reaches its peak, with an average of 166 mm. Between the driest and wettest months, the difference in precipitation is 157 mm. The variation in annual temperature is around 22.3 °C. Annual precipitation/Rain Fall: 385 mm
Major Rivers,Head Works and Drains	River Chenab (147Km) River Jhelum (63Km), Trimmu Headworks, Khairwala Drain,
Major Canals	Haveli Mainline, Trimmu-Sidhani Link Canal, Rangpur canal and 43 branches
Vulnerable Motorways/Highways	Jhang Sargodha Highway Near Riwarz Bridge, Jhang Bhakar Highway near 18 Haazari, Jhang Multan Highway near Mahram Sial
Railways	Revaz Bridge at Chenab River near Chund Bharwana
Geological features	Like fault line, mountainous areas etc. Jhang is the oldest District in the sub-continent, has been established around 2000 BC, When it was known as "Jhang Sial". Jhang is bordered by Sargodha District to the North, Faisalabad District & Toba Tek Singh District to the east, Khanewal District &

	<p>Muzaffargrah</p> <p>District to the south, Layyah District & Bhakkar District to the North West.</p> <p>The fauna and flora of the area include: Jand trees (<i>Prosopiss picigera</i>), Karir (<i>Capparisaphylla</i>), Beri (<i>Zizyphus jajaba</i>), Van (<i>Salvadoraabeoides</i>), Kikar (<i>Acacia arbica</i>),</p> <p>Shisham (<i>Dalbergia spp.</i>) and Aak (<i>Calotropoisha miltonit</i>) are found within the area.</p>
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Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Level	Flood	Critical Points, if any	Remarks
Nil		X: Y:					
		X: Y:					

Major Embankments/Bunds

Name of Embankment	Length (km)	GPS Critical/Points	Location of Vulnerable	Remarks
Jhang Flood Protection Bund	21.64	X: 31.372652, Y: 72.357144		There is no vulnerable reaches after the work for Strengthening of Flood bunds under work Remodeling of selected reaches of Jhang Flood Bund and Thatta Mahla Flood Bund have been completed by the PIU and handed over to irrigation department . The PIU is responsible for all kind of maintenance before the completion of liability period.
Thatta Mahla Flood Bund	15.55	X:31.414410, Y: 72.432822		
Loop Band	3.51	X:31.397743, Y:72.401791		
Left Marginal Bund	14.8	X : 31.146503 Y : 72.152272		Structure is in safe condition, strengthening is in progress

Right Marginal Bund	17.3	X : 31.146703 Y : 72.14155	Structure is in safe condition, strengthening is in progress
Hasso Wali Bund	23.17	X: 30.990711 Y: 72.172447	In satisfactory condition
Rajbana Flood Bund	7.3	X: 30.8646 Y: 72.029006	In satisfactory condition
Link Flood Bund	3.66	X: 30.820864 Y: 71.983531	In satisfactory condition
Lakhi Flood Bund	14.4	X: 30.791417 Y: 71.973236	In satisfactory condition
Dadal Flood Bund	16	X: 30.812911 Y: 71.835231	In satisfactory condition
Rangpur Flood Bund	18.6	X: 30.609392 Y: 71.653081	In satisfactory condition
Massan Band	21.5		In satisfactory condition

Breaching Section

Name of Bund/ Embankment	Name of Breaching Section	Location with GPS Coordinates	Remarks

Chenab	Revaz Bridge	X: 31.404482 Y: 72.297813	Breaching Section is under the Control of Railway Department
Jhelum	Head Trimmu	X: 31.145152 Y: 72.145577	Breaching Section is under the Control of Chief Engineer irrigation Department

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
Grid Station Toba road Jhang -I	132-KV	X:31.25246021 Y: 72.32353985	Grid Station Havli Bahadar Shah	132-KV	X:31.0733227 Y: 72.18614537
Grid Station Chiniot Morr Jhang-II	132-KV	X:31.29153388 Y: 72.36638546	Grid Station Sargodha Road Morr Mandi	132-KV	X:31.5619149 Y: 72.2611758
Grid Station Chiniot Road Khewa	132-KV	X:31.4572337 Y: 72.4735227	Grid Station Shorkot City	132-KV	X:30.8318336 Y: 72.0764437
Grid Station Shorkot Cantt, Chuttiana	132-KV	X: 30.7910088 Y: 72.2393399	Grid Station 18-Hazari	132-KV	X: 31.1957696 Y: 72.04803944
Haveli Bahadur Shah Power Plant	Power House	X: 31.1261417 Y: 72.1931833	Grid Station Mehmood Kot	132-KV	X: 30.9142694 Y: 71.8932194
Haveli Bahadur Shah Power Plant	Power House	X: 31.1155583 Y: 72.1895722	Grid Station Ahmed Pur Sial	132-KV	X: 30.7027861 Y: 71.7476306

Airport / Landing Strips

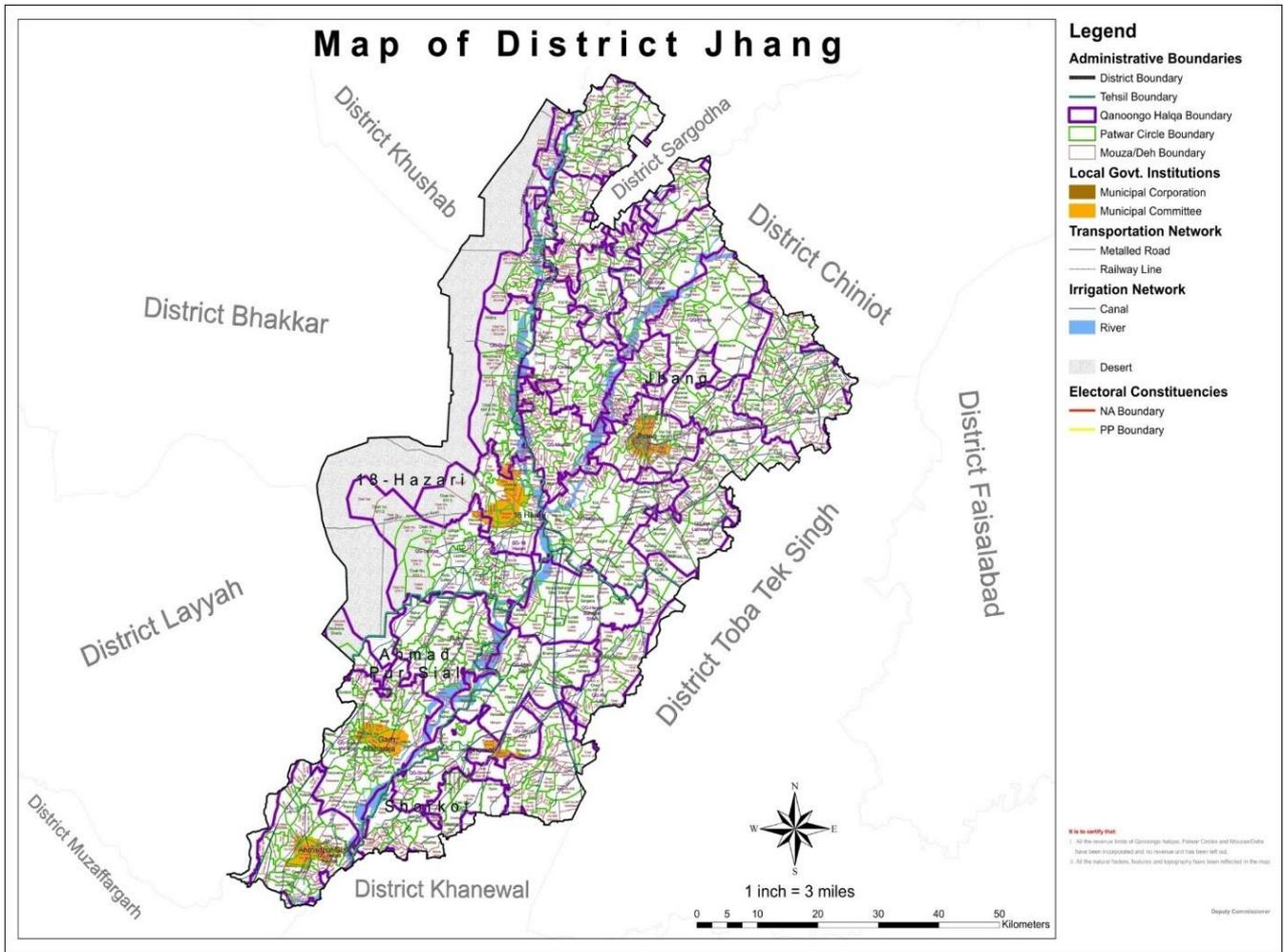
Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
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Air Base	Raffqui air base shorkot	X: 30.755296 Y:72.280260			X: Y:
Land strips	Not defidend	X: Y:			X: Y:

Govt. storage facilities/warehouses in the district

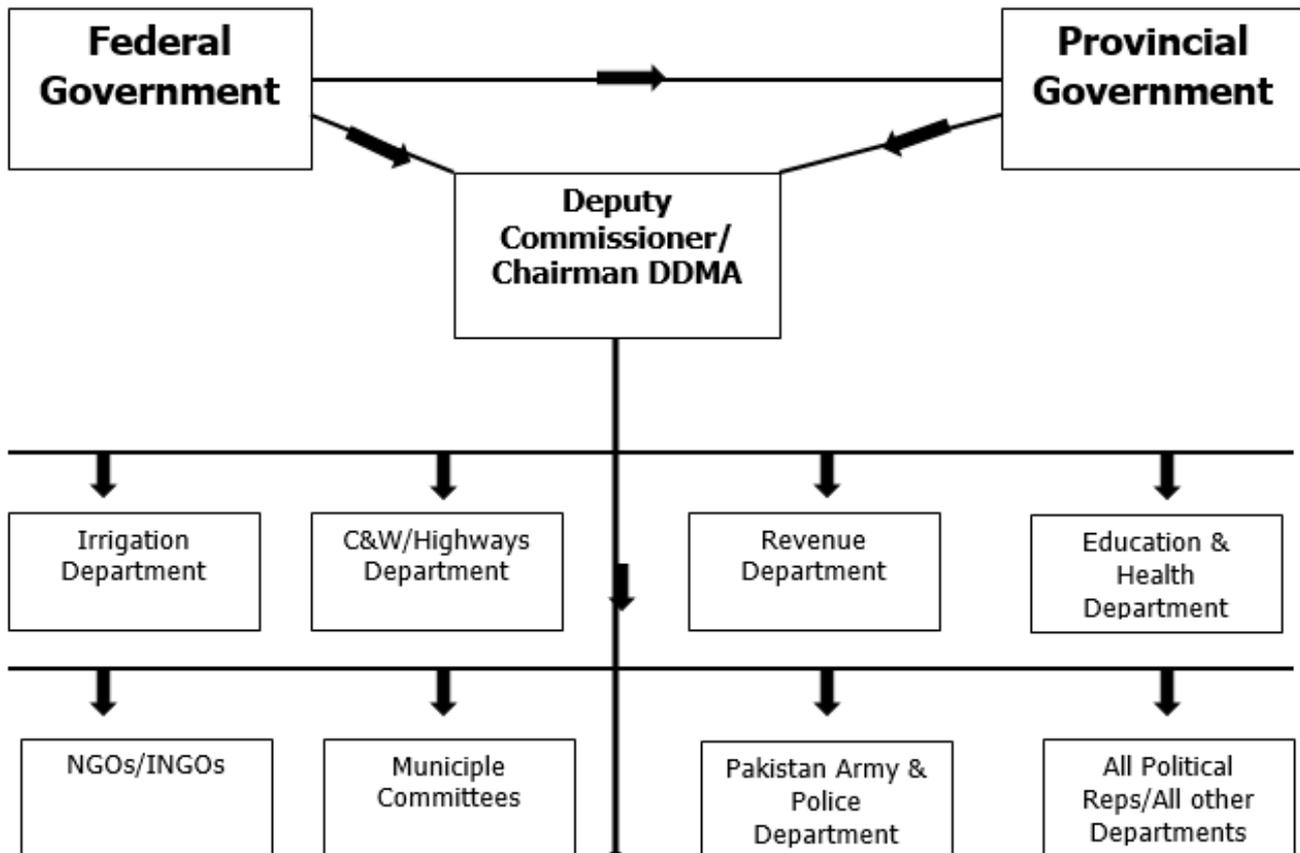
Facility Type	Capacity (M.Tons)	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
Jhang Set-I House type Godowns	12000	X:31.152514 Y: 72.192599	Chak Kuriana Bini Shell Godowns	57000	X: 31.192668 Y: 72.214921
Jhang Set-II House type Godowns	10000	X:31.152030 Y: 70.193225	Mochiwala House type Godowns	5000	X:31.180922 Y: 72.334528
Jhang Set-III House type Godowns	9000	X:31.152520 Y: 72.213285	Chak No. 170 House type Godowns	6000	X:31.221072 Y: 72.324163
Shorkot City House type Godowns	3000	X:30.493334 Y: 72.043231	Rustam Sargana House type Godowns	1600	X:31.023675 Y: 72.150349
Shorkot Cantt. House type Godowns	7000	X:30.471103 Y: 72.142246	Ahmad Pur Sial House type Godowns	10500	X:30.413289 Y: 71.442233
Garh More House type Godowns	21000	X:30.512465 Y: 71.505617	Waryan House type Godowns	1600	X:30.573364 Y: 72.152194
Shah Jewana House type Godowns	9500	X: 31.4529917 Y: 72.26030			

District baseline/reference map



Source: DC office Jhang

COORDINATION MECHANISM



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.
- b) coordinate and monitor the implementation of the National Policy, Provincial Policy, National plan, Provincial Plan and District Plan;
- c) ensure that the areas in the district vulnerable to disasters are identified and measures for the prevention of disasters and the mitigation of its effects are undertaken by the departments of the Government at the district level as well as by the local authorities;
- d) ensure that the guidelines for prevention, mitigation, preparedness and response measures as laid down by the National Authority and the Provincial Authority are followed by all departments of the Government at the district level and the local authorities in the district;
- e) give directions to different authorities at the district level and local authorities to take such other measures for the prevention or mitigation of disasters as may be necessary;

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

District Plan:

- a) Every District of the Province will maintain a plan for disaster management.
- b) The District Plan shall be prepared by the District Authority in accordance with 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 will 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 all the departments.

- 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 vulnerable areas.
- 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 amongst all the concerned departments. The control rooms should be equipped with wireless, telephones and computers. All information 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 SystemNetwork 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 vulnerable areas
- 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

Municipal Committees

- Municipal Committees play an important role for providing municipal services in the district, sanitation facilities, maintenance of parks and removal of encroachment etc.
- Municipal Committees will provide assistance to the DDMA/District Administration for setting up and management of relief camps/ operations.

- Municipal Committees are responsible for provision of sanitation facilities in their respective municipalities besides disposal of waste or rain water/sewerage.
- Municipal Committees 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.
- Sanitary workers of Municipal Committees can be employed for cleaning relief camps, or other such areas which has been affected by any disaster.
- Municipal Committees should keep de-watering sets functional to remove excess water. All Municipal Committees are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The Municipal Committees maintain a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- Municipal Committees 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 Municipal Committees will assist in the migration of the affected people.
- During the relief effort and subsequent rehabilitation effort the, manpower of the Municipal Committees 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)

- District Disaster Management Authorities 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.
- DDMA's 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 Deputy Commissioner. The office of the DC fully supported by the DPO and line departments such as Health, Agriculture, Livestock, Civil Defence, 1122 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 .
- 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. Assistant Commissioner will ensure that announcements are made through loudspeakers of the mosques utilizing the services of the Revenue Department. Patwaris will inform the Chairmen UCs, s Numbardars, Headmasters of the Schools, Imam Masjids and Councillors to make announcements etc.
- The tactical operations would be headed by the Additional Deputy Commissioner (Revenue). The ADC (R) would be responsible for coordinating and supervising the disaster control and relief measures in the district.
- District Disaster Management Authority comprising the following has been notified.
 - i. Deputy Commissioner, (Chairman)
 - ii. District Police Officer, Jhang
 - iii. Additional Deputy Commissioner (General), Jhang
 - iv. Additional Deputy Commissioner (Revenue), Jhang
 - v. Additional Deputy Commissioner (F & P)
 - vi. MNA Jhang
 - vii. MPA Jhang
 - viii. Chief Executive Officer District Education Authority, Jhang
 - ix. Chief Executive Officer District Health Authority Jhang
 - x. Executive Engineer Highways, Jhang
 - xi. Executive Engineer Buildings, Jhang
 - xii. XEN Irrigation Department Jhang Division, LCC (W) ,Jhang
 - xiii. XEN Irrigation Department Trimmu Barrage Division Trimmu

- xiv. XEN Irrigation Department Sargodha Division, L JC ,Sargodha
- xv. XEN Operations, FESCO, WAPDA Jhang
- xvi. Deputy Director Agriculture, Jhang
- xvii. Deputy Director Livestock, Jhang
- xviii. Deputy Director Social Welfare, Jhang
- xix. District Officer Special Branch, Jhang
- xx. Assistant Commissioner, Jhang
- xxi. Assistant Commissioner, Shorkot
- xxii. Assistant Commissioner, AP. Sial
- xxiii. Assistant Commissioner, 18-Hazari
- xxiv. District Emergency Officer Rescue 1122 ,Jhang
- xxv. M.S DHQ Hospital, Jhang
- xxvi. District Disaster Management Co-coordinator, Jhang
- xxvii. Secretary DRTA, Jhang
- xxviii. Chief Officer Zila Council ,Jhang
- xxix. Chief Officer Municipal Committee Jhang
- xxx. Chief Officer Municipal Committee Shorkot
- xxxi. Chief Officer Municipal Committee AP Sial
- xxxii. Chief Officer Municipal Committee 18-Hazari
- xxxiii. President Global welfare society Shahjewna.
- xxxiv. General Secretary Idara Taraqi-e-Khawateen, Jhang

- **Establishment of District Emergency Operation Center (DEOC).**

DEOC has been established at Jail Road Jhang which fully functional and working round the clock with telephone numbers 047-9330005. Human Resource/staff from the various government departments have been deployed in the DEOC. The DEOC will also perform as District Flood Control Room. The DEOC will maintain updated information regarding the threat

of disaster and post disaster statistics. The center will maintain a regular communication with the Flood Forecasting Division, PDMA, the dam authorities up stream in case of a flood.

- District administration / DDMA will immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Governments will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
- Chief Executive Officer District Health Authority 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.
- Deputy Director (Agriculture) and Additional Director 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 paramedical 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

District Emergency Operation Center/District Control Room

(functions and responsibilities)

A District Emergency Operation Center has been established and working round the clock having following functions and responsibilities:

- The DEOC is the main information center in terms of disaster management or any other emergency.
- To monitor, coordinate and implement the actions for disaster management.
- Periodic check to ensure that all warnings, communication systems and instruments are in working condition.
- To receive reports on the preparedness of the district level departments and the resources at their disposal to arrange and meet their requirements.
- To maintain an inventory of all resources.
- To give warning signals as per the need of the hour.
- To collect and transmit information concerning natural calamities and relief at all levels.

- To make arrangements for dissemination of information to all vulnerable places.
- To brief the media of the situations and furnish the day-to-day reports to the State Disaster Management Committee during disasters.
- To report the ground situation and the action taken by the District Administration accordingly.

Checklist for DEOC:

- Dedicated Staff
- Duty roaster of the staff
- Dedicated telephone line
- IP Phone and Camera
- Dedicated Fax
- Wireless
- Printer and Photocopier
- Internet and Email or any other source of communication
- Power backup(Solar System and Generator)

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

The Paksitan Army's resources are employed for immediate search, rescue and evacuation. The Army is called in the 'Aid of Civil Power' only when a disaster overwhelms the resources at the disposal of the Government of Punjab. The Deputy Commissioner of the affected district would request the relevant Army Authorities for aid of Army upon the approval of the Home Department. The Standard Operating Procedure for requesting the support of the Army is submission of request by the Deputy Commissioner through Home Department, and the Ministry of Defense.

Volunteer Network

E.g. how many registered volunteers, how to activate them, who will coordinate with them etc. The office of Civil Defence assists in the evacuation of people and their household properties from the disaster affected areas. The office engages a large number of volunteers for search, rescue, evacuation and disbursement of relief goods. These volunteers generally known as "Razakars" are usually trained in swimming, basic rescue techniques, first aid etc. Razakars build their skills in simulation and mock exercises. The Civil Defence collaborates with Punjab Emergency Services (Rescue 1122) in sophisticated search, rescue and evacuation operations.

The District officer organizes mobile squads of Razakars and scouts in collaboration with local wardens and scout organizations to assist local administration/army, Rescue 1122 in evacuation and other disaster response activities. Razakars manage and utilize generators, search lights, and other life saving equipment. Razakars that know how to swim and dive are utilized for specialized water rescue. Razakars provide first aid to injured victims before transporting them to hospitals. These

volunteers also assist the fire brigade in rescue, and Health department's representatives in the treatment of injured victims. The Civil Defence also assists the District Administration and Police in setting up information system for members of public, whose relatives, friends and family members are missing

Registered Volunteers Rescue 1122:56 (ANNEX –VIII (1)) page 71

Registered Volunteers Civil Defence: 46 (ANNEX –VIII (2)) page 74

RISK ANALYSIS

Potential hazards of the district

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

Risk = Impact x Likelihood

Low : 1-7

Medium : 8-14

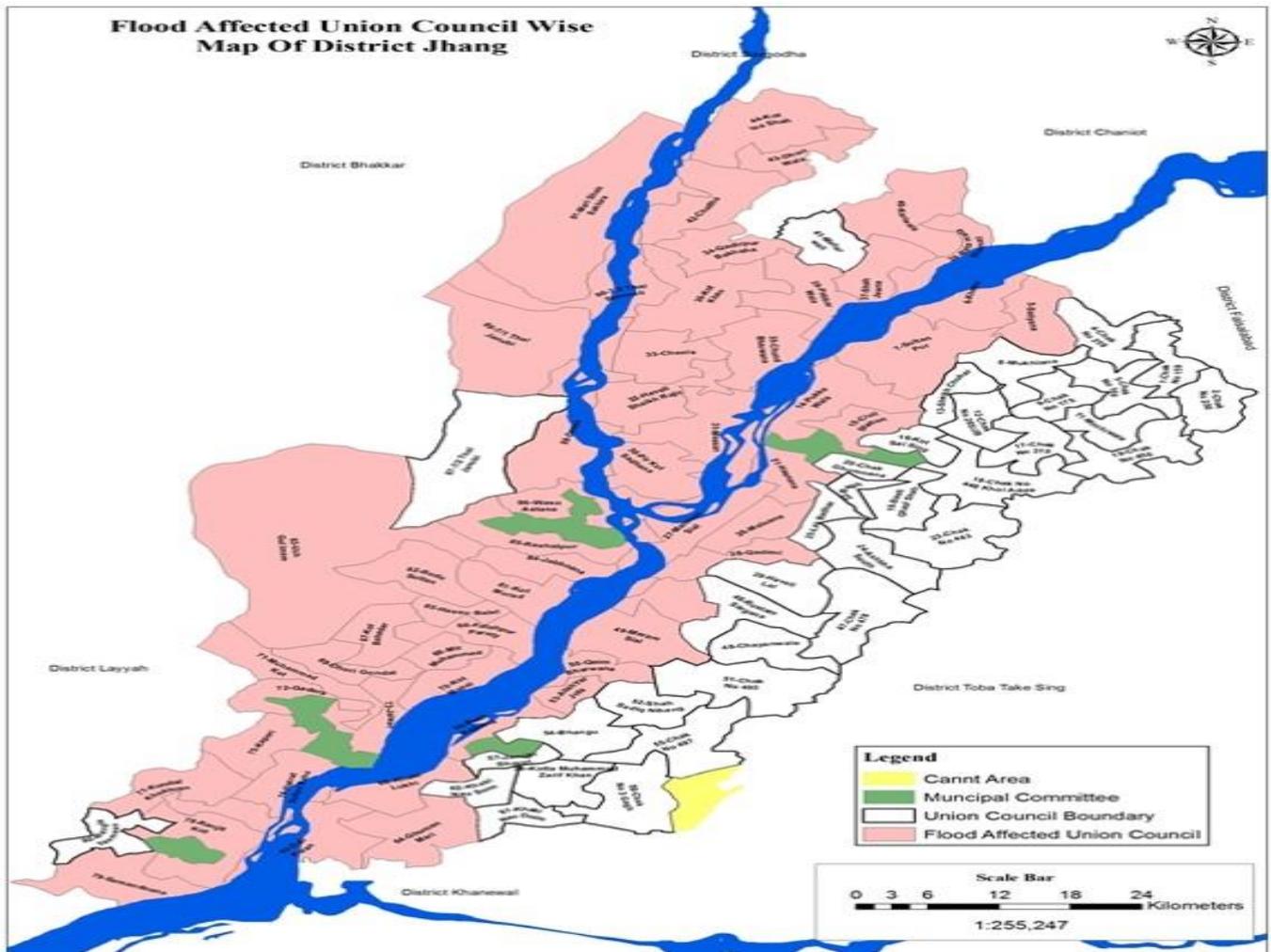
High : 15-25

Hazards

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

Floods, Urban Flooding, Flash Floods, Traffic Accidents, Fire Incidents. Flood severity increases due to illegal encroachment and construction of the buildings inside bund area.

District detail map with vulnerable Union Councils of District Jhang



Source: Survey of Pakistan

Response & Operational Capacity

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

- Pre-Flood warning through field staff and loud speakers to the general public in the Kacha areas.
- Establishment of Flood relief centers at various points at Tehsil.
- Availability of human Medicine and veterinary medicine facilities in flood affected areas.
- Rescue operation during flood.
- Provision of food items and tents to the flood affected areas.
- The District Authorities should, at all times, be ready to give assistance to the disaster victims with the available means and resources.
- On receipt of first hand information, the Assistant Commissioners would arrange for necessary proclamation for moving to the safer places already notified to the public.

- Help of police in cases of forcible evacuation shall invariably be tendered
- If real emergency strikes and the normal means of rescuing the affected population are considered inadequate, a SOS shall be sent to the army deputed in the area for help. All agencies whether official or private shall be put into operation for protecting the human life and property.

1. Strategic Reserves (Rescue 1122)

S. No.	Items	Available	Functional	Non-Functional	Extra Demand
1.	Boats	42	42	0	0
2.	Boat Engines	51	51	0	0
3.	Fire Vehicles	5	5	0	0
4.	Life Jackets	1173	1173	0	0
5.	Life Buoy	217	217	0	0
6.	Rescue Vehicle	1	1	0	0
7.	Recovery Vehicle	1	1	0	0
8.	Boat Carrier/Trolleys	7	7	0	0
9.	Searchlight	135	135	0	0
10.	Generator Sets	1	1	0	0
11.	Mini Trucks	1	1	0	0
12.	Ambulances	12	12	0	0
13.	Water Tanks/Bouzers	1	1	0	0
14.	Any Other	0	0	0	0

2. Strategic Reserves (Municipal Committee Jhang, District Jhang)

S. No.	Name of Item	Available	Functional	Non-Functional	Extra Demand
1	De-Watering Sets.	32	32	--	25 sets 2 cusec
2	Disposal Stations	12	12	--	--
3	Generators	5	5	--	5
4	Fog Machines	18	18	--	--
5	Spray Pumps	20	20	--	--
6	Tractors & Hydraulic Trolleys	11	11	--	15
7	Water Tanks/Bouzers	2	2	--	2
8	Sucker Machine	2	2	--	2
9	Jetting Machine	2	2	--	2
10	Container	150	150	--	300

11	Arm Roll Trucks. 5 cubic meter.	--	--	--	10
12	Arm Roll Trucks. 10 cubic meter	--	--	--	10
13	Steel bins.	--	--	--	500
14	Mechanical sweeper.	--	--	--	03
15	Rickshaws.	--	--	--	30
16	Full face masks.	--	--	--	50
17	Compressed fresh air line.	--	--	--	05
18	Fresh air respirator.	--	--	--	05
19	Safety harness.	--	--	--	10
20	Tripod with winch.	--	--	--	10
21	Air blower.	--	--	--	05
22	Search lights.	--	--	--	150
23	Special & Valves complete.	--	--	--	10 sets complete
24	Life jackets.	--	--	--	200
25	Nozzles	--	--	--	20
26	Portable multigas detector.	--	--	--	10
27	SMD lamps.	--	--	--	50
28	Gas Masks.	--	--	--	15
29	Oxygen Cylinder.	--	--	--	15
30	Helmet.	--	--	--	200
31	Sludge suction machine.	--	--	--	2 set.
32	Carbon dioxide cylinder	--	--	--	10
33	Excavator	--	--	--	01
34	Tractor with Front Blade	2	--	--	2
35	Tractor Front End loader	6	--	--	2

3. Strategic Reserves (Municipal Committee Shorkot, District Jhang)

Sr. No.	Items	Available	Functional	Non-Functional	Extra Demand
1.	Spray Machine	17	17	0	0
2.	Dewatering Sets	4	4	0	0
3.	Fog Machine	4	4	0	0
4.	Cars	2	2	0	0
5.	Water Tanks/Bouzers	2	2	0	0
6.	Tractors	4	4	0	0
7.	Single Cabin Hilux	0	0	0	0
8.	Double Cabin Hilux	0	0	0	0
9.	Trollies	2	2	0	0
10.	Any Other (Generator Sets (All types))	2	2	0	0
11.	Disposal Stations	3	3	--	--

4.Strategic Reserves (Municipal Committee 18 Hazari, District Jhang)

Sr.No	Items	Available	Functional	Non-Functional	Extra-Demands
1.	Life Jackets	0	0	0	50
2.	Dewatering Sets	4	4	0	0
3.	Life Ring	0	0	0	100
4.	First Aid Kits	0	0	0	10
5.	Rescue Bag	0	0	0	0
6.	Safety Harnesses	0	0	0	0
7.	Ambulances	0	0	0	1
8.	Fire Brigade	0	0	0	1
9.	Water Tanks/ Boozers	1	1	0	0
10.	Extendable Ladders	0	0	0	1

11.	Jumping Sheet	0	0	0	0
12.	Dumpers	0	0	0	2
13.	Excavators	0	0	0	1
14.	Cranes	0	0	0	1
15.	Bulldozer	0	0	0	1
16.	Tractor/Trolleys	1	1	0	1
17.	Pickups/Jeep/4x4 Vehicles/Mini trucks	0	0	0	1
18.	Searchlights	0	0	0	5
19.	Tents	0	0	0	200
20.	Mosquito Net	0	0	0	300
21.	Plastic Mat	0	0	0	200
22.	Blanket	0	0	0	300
23.	Generators Sets (All Type)	0	0	0	2
24.	Floating Rope	0	0	0	2
25.	Boat Engines	0	0	0	0
26.	Spray Machine	0	0	0	3
27.	Buses	0	0	0	0
28.	Road Roller	0	0	0	0
29.	Fog Machine	0	0	0	2
30.	Cars	0	0	0	1
31.	Jeeps	0	0	0	1
32.	Water Tanks/ Boozers	0	0	0	1
33.	Single Cabin Helix	0	0	0	1

5.Strategic Reserves (Municipal Committee Ahmad Pur Sial District Jhang)

Sr.No	Items	Available	Functional	Non-Functional	Extra Demand
1	De-Watering sets	5		Functional	-
2	Disposal stations	2		Functional	-
3	Generators	4		Functional	-
4	Fog Machines	2		-	Non-Fuctional
5	Spray Pumps	5		Functional	-
6	Tractors	4		Functional	-
7	Trollies	4		Functional	-
8	Water Tanks/Bouzers	3		Functional	-
9	Sucker& Jetting Machine	1		Functional	-

6. Strategic Reserves (Health)

S. No.	Items	Available	Functional	Non-Functional	Extra Demand
1	Fixed Teams	36	0	0	0
2	Preventive Mobile Teams/Medical Mobile Team	34/06	0	0	0
3	Anti Rabic Vaccines	250 dose	0	0	0
4	Anti Snake venom	68 vials	0	0	0
5	Alpha Cyperethrine 10%SC	178 Lit	0	0	0
6	Lambda Cyhalthorhin 2055 EC	150 Lit	0	0	0
7	Temiphos 1%	50 kg	0	0	0
8	Measles Vaccine	14400	0	0	0
9	Aqua Tab	66200	0	0	0
10	Bet Net	3000	0	0	0
11	Foggers	06	0	0	0
12	Spray Pumps	23	0	0	0

7. Strategic Reserves (Social Welfare)

S. No.	Items	Available	Functional	Non-Functional	Extra Demand
1	Tent	3756	3756	0	0
2	Mosquito Net	3200	3200	0	0
3	Plastic Mat	3955	3955	0	0

8. Strategic Reserves (Agriculture Department)

S. No.	Items	Available	Functional	Non-Functional	Extra Demand
1	Spray Machinies (Shoulder Mounted)	166	166	0	0
2	Spray Machinies (Tractor Mounted)	6	6	0	0
3	Spray Machinies (Vehicle Mounted Plungeries)	8	8	0	0
5	Spray Uniform with Mask & Long Shoes	65	65	0	0

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.)
- River Chenab damages crops and population during high flood.
- Despite repeated warning of Flood, people of the Katcha areas of district don't shift themselves to the save area until flood disturb them.
- People built their houses and cultivate crops in the way of Nallas.

Mitigation Strategy

Actions taken to prevent or reduce the risk to life, property, social and economic activities, and natural resources from natural hazards is important for preparation and mitigation to any disaster. Awareness, education, preparedness, and prediction and warning systems can reduce the disruptive impacts of a natural disaster on communities. Mitigation measures such as adoption of zoning, land-use practices, and building codes are needed, however, to prevent or reduce damages following preventive steps are needed.

- Planning to cope with any disaster
- Identification of areas likely to be affected by any disaster
- Constitution of teams and micro planning.
- Establishment of Static Posts/Emergency First Aid Centers
- Flood Emergency Cell be established in District and respective Tehsil.
- Inspection of Flood Protection Bund
- Mock exercise to examine the preparedness for flood is carried out.

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

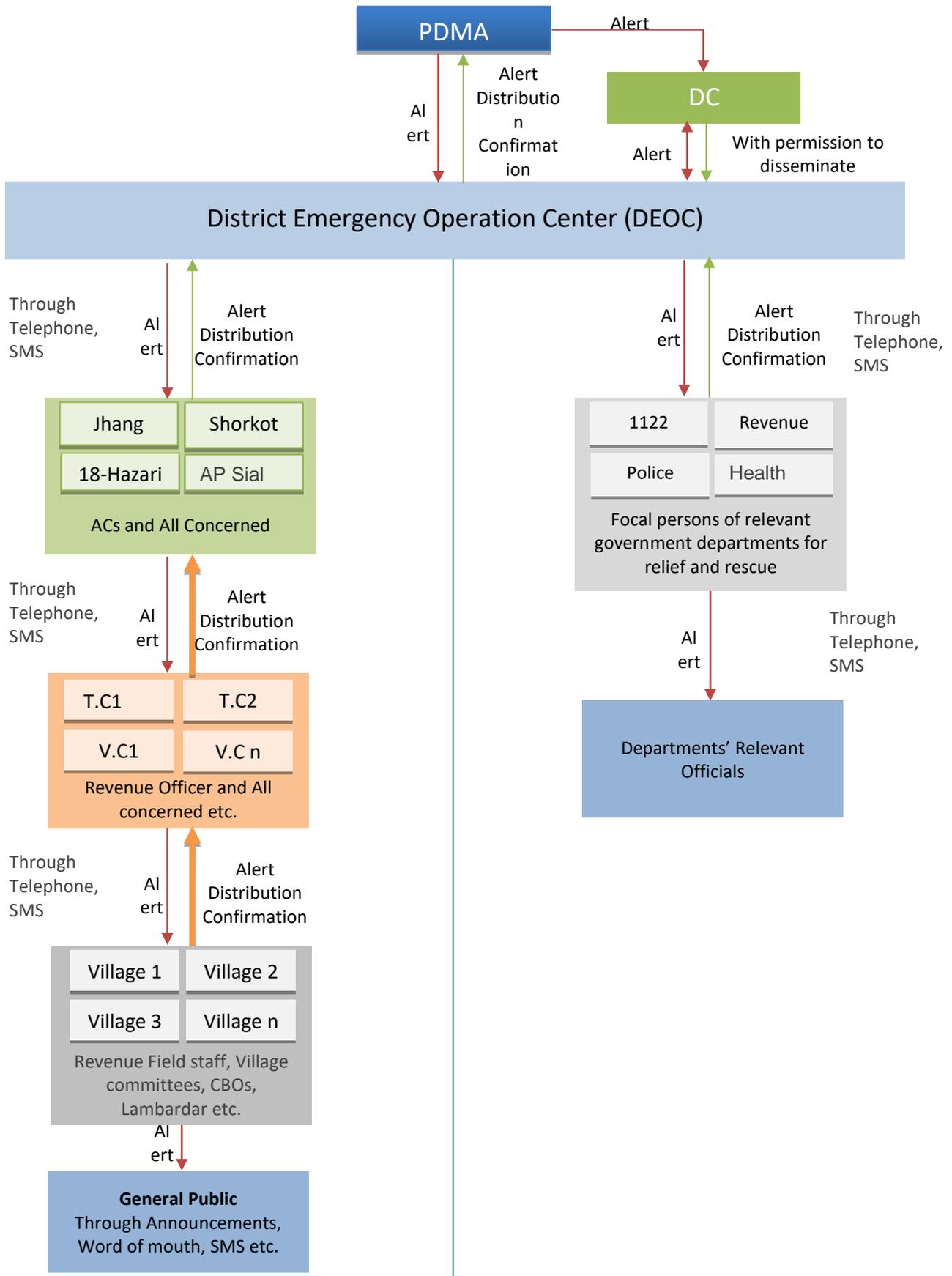
Hazards	Mitigate Actions	Responsible Department
Floods	Proper maintenance and repair work of Bunds and safety spurs. Awareness to the people of Kacha areas for proper shifting towards the safe areas. Public awareness through SMS, Wide Publicity, Radio, TV, Print Media and Social Media etc.	All ACs, All Revenue Officers, Information Department, Irrigation Department
Urban Flooding	Proper maintenance, de-silting and repair work of drains of urban areas of district.	All ACs ,CO MCs

Tornado	Necessary assistance should be given.	All ACs, All Govt.deptts.
Earthquake	Necessary assistance should be given.	All ACs, All Govt.deptts.
Drought	Necessary assistance should be given.	All ACs, Agri Deptt.
Epidemic	Necessary medical treatment/ facilities should be given by special Mobile Health Teams and other allied department.	All ACs, CEO (Health)

Fire Incidents	Fire Fighting and Fire controlling.	Rescue 1122
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	In time action and response from relevant Departments and necessary assistance should be given.	All ACs, Building Deptt. Rescue 1122 Airforce
Environmental Hazards (industrial accidents, severe pollution etc.)	In time action and response from relevant Departments and necessary assistance should be given.	All ACs, Rescue 1122,Environment deptt,Industries deptt. Airforce

EARLY WARNING

Information Flow Diagram



Level in Early warning

3.5.1- Level I

Through patwaris and girdawars to the concerned vulnerable area regarding alternate arrangements for expensive in case of emergency evacuation.

3.5.2- Level II

Arrangements for evacuation and provision of supportive resources to vulnerable areas

3.5.3- Level III

In this phase the warnings are issued through sirens, announcements through loud speaker, mega phone and electronic media when DDMA issues high alert and support of army for the mobilization of peoples from vulnerable area

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

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)

occurrence is less than 100%)

resources for on call mobilization and monitor the situation 6 hourly.
Only DC and DPO shall grant leave according to the situation.

Level-B
(High Alert)
(Disaster threat is imminent)

Activities to be undertaken in level C

+

DDMA shall issue EW to all stakeholders and "High Alert" for the district to ensure that all additional HR and material resources including volunteers has reported to their assigned duties, and all resources for evacuation and disaster management have been mobilized as per DDMP. All emergency (health, fire, rescue 1122, Municipal Committee etc) facilities shall work 24/7 with full staff strength. DDMA shall monitor the situation on hourly basis.

Level-A
(Red Alert)
(Disaster is materialized)

Activities to be undertaken in level B

+

DDMA shall respond to the emergency immediately and shall carry out rescue and relief operation as defined in DDMP and shall continuously monitor the situation. Resources of adjoining districts shall be mobilized and Army may be called keeping in view the magnitude of the disaster.

Early Warning

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

Who is the focal person at district level?

Functions of District Emergency Operation Center (DEOC) / 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.

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

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 for displaced persons? List at (Annex I) page 41.

The entire Machinery, Equipment, and staff of the District Administration shall be immediately mobilized to the affected area. All allied departments will jointly handle the situation. If the high magnitude of the disaster occurred then neighboring district recourses would be called to tackle the situation. In the high magnitude disaster Deputy Commissioner will also request to army for support in Rescue and relief operation.

Evacuation:

Emergency evacuation is the rapid removal of people from a threatened environment to a safer place Punjab Emergency Services and Civil Defense, along with the implementing arms of the Home department are primarily responsible for evacuation of the affected people. Their key personnel should be trained in various evacuation techniques for the different types of disasters. The transportation plan for evacuation would be formulated in close consultation with Punjab Emergency Services, Punjab Police, the Construction & Works department and the Transport department. The department of Civil Defense along with the Education department would mobilize groups of Rzakars and Scouts to assist the evacuation process. Evacuation is prioritized on a need basis. The first to be evacuated are seriously injured or bedridden patients followed by handicapped or disabled persons, pregnant women, elderly persons, children and women. The rapid evacuation of injured persons by the concerned agencies has to follow a simple color tagging process that prioritizes the patients that are in most urgent need of medical assistance. Evacuation would be coordinated by the PDMA & would be ordered by DC considering the on-ground scenario. Forced evacuation can also be ordered by the DC in the face of clear and present danger.

Efficient Evacuation

Search & Rescue are the foremost activities of the evacuation process. Most of the resources would be dedicated to these activities during the initial 12 hours after the disaster.

Families would preferably be evacuated together as one unit, minimizing chances of separation in a family. Evacuation of children without families would only be undertaken as a last .

The victims of a disaster would most probably require immediate medical assistance due to injury, psychological trauma or general health problems such as diarrhea, cholera, high fever, flu, cough, eyes infection etc. Mobile clinics would immediately be setup in the affected areas. These clinics would be equipped with both clinical and human resource to enable them to cater to medical needs of a large number of victims. The Health Department would be the lead agencies in this Regard. However, the assistance of NGOs would also be solicited. The clinics and hospitals in the vicinity of the affected area would maintain a record of all patients to be able to identify any epidemic outbreaks that would further increase the spread of disease. The Social Welfare department would take all measures to rehabilitate orphans, destitute women and other vulnerable elements of the affected population.

Pakistan Army:

The Paksitan Army's resources are employed for immediate search, rescue and evacuation. The Army is called in the 'Aid of Civil Power' only when a disaster overwhelms the resources at the disposal of the district Government. Search, rescue and evacuation are the primary responsibilities of the 'Disaster Response Force' so if the resources of this force fall short, the Army is immediately called in.

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
-
- Volunteers of Rural and Urban areas participate in rescue activities during flood.
 - Local NGO's should participate in rescue and relief operation with their own resources.
 - All other departments to take necessary measures for the safety/assistance of the community in the area. Total NGOs working in the District: 19 (ANNEX-VI) page 64
 - List of Volunteers have been prepared by DO (Civil Defence) and DEO (Rescue-1122) and all Assistant Commissioners in the district should provide volunteers according to need.

Annex I: Identified sites for displaced persons

S#	Location	No. of persons which can be accommodated	GPS Coordinates	S#	Location	No. of persons which can be accommodated	GPS Coordinates
1	GHS, Jhang City		X: 31.304736 Y: 7. 322698	16	GHS Ahmad Pur Sial	108	X: 30.812473, Y: 71.863546
2	GHS Chund Bharwana	42	X: 31.41878 Y: 72.26701	17	Govt. Boys College 18-Hazari	125	X: 31.182449
3	GHS Shah Jewena City	80	X: 31.56116 Y: 72.28672	18	GHS Kot Khaira	60	X:31.18423 Y: 72.24979
4	GHS pir Abdul Rehman		X: 30.7423306 Y: 71.809138888 9				
5	GHS Kot Shakir		X: 31.48196 Y: 72.08656				
6	GES BalloShahable	50	X: 31.40051 Y: 72.3771				
7	GHS Khanoana	90	X: 31.471388 Y: 72.4964619				
8	GHS Shair Chakar, Haveli Sheikh Raju	100	X:31.39293 Y:72.1995				

9	GHS Moonda, near mormandi	57	X: 31.56283 Y: 72.24629				
10	GHS Jabboana	75	X: 31.0860694 Y: 72.072120833 3				
11	GHSS H.B Shah	72	X: 31.0694139 Y: 72.181588334				
12	GHS, BadhRajbana Janubi	100	X: 30.8391917 Y: 72.017847222				
13	GHS Dabkalan	80	X: 30.7185222 Y:71.8968083 33				
14	GHSS Garh Maha Raja	96	X: 30.83208 Y:71.90433				
15	GHS Kot Bahadur Shah	54	X: 30.98015 Y: 71.95003				

Annex II:List of hazard prone villages/Revenue Estates

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods	Jhang, Shorkot, 18- Hazari, Ahmad Pur sial	Khewa, Sultan Pur, Sheikh Chohar, Pakkey Wala, Civil Station, Hasnana, Bagh, Lak Badhar, Pir Kot Sadhana, Massan, Haveli Sheikh Raju, Chaila,Qadir Pur, Chund Bharwana, Shah Jewana, Pabbar Wala, Chatta, Dhoori Wala, Kot Essa Sha, Chaiyan Wala, Mehram Sial, Qaim Bharwana, Shah Sadiq Nehang, Allah Yar Joota, Bhangoo , Badh Rajbana,	Jhang Chak Katcha,Jhang Chak Noor Shah,Khorora,Bela Bagar,Pakkeay Wala,Douka,Wagha Kalaka, Patowana,Bela Jhabana, Jandran,Khana Bati,Topa Bela Sharqi,Naikokara,Bela Mirjana, Dhouian Saidan Shah, Koorayanwala,Nandkana,Dadowana Nou,Chutala,Kharora Baqir,Sahmal, Cha Kameer,Bindi Baig Mehni, Dhunowala,Lakhnana Nou,Lakhnana Khona,Kaloo Sahmal,Kul Kuria, Joogra,Bela Rattar,Opth Bhadar Shah,Bindi Said Lal,Dhouan Muhammad,Dadowana Khona, Pepole Wala,Jahan Khan, Rajana,Katchan,Lughari,Mul Sultan,Havilee Dewan,Long Junoobi, Rakh Sajhowal,Pir Kot Sadhana,Chak Said Beram,Batafi,Chak Janpur,Kalar Quershi,Bulha Patowana, Bela Jotaanawala,Basti Balochan,Malkhiana, Alman Sharqi,Sobhaina Gharbi,Kot Braham,Lala Johla, Adhowana,Tehli Gadawali,Choori Noona,Jhugay Rug Shah,Bela Sahadani,Namdar Phully, Bela Patowana,Qadir Pur Khurd, Massan,Kot Bahadar Shumali,Binda Palkana,Kot Bora,Najabat, Kot Sukha,Beli Ahmad Khan,Wasil Shah,Sajhar Kalassan,Bindi Amir Khan,Karamowana,Talwara, Saliana,Sai Sarwar,Khotiana,Bela Khotiana,Shana,Ghaghaiana,Havilee Ghulam Janat,Chak Ganish Das, Bela Patowana,Qadir Pur Khurd,Massan,Kot Bahadar	Jhang Chak Katcha,Jhang Chak Noor Shah,Khorora,Bela Bagar,Pakkeay Wala,Douka,Wagha Kalaka,Patowana,Bela Jhabana,Jandran,Khana Bati,Topa Bela Sharqi,Naikokara,Bela Mirjana, Dhouian Saidan Shah,Koorayanwala,Nandkana,D adowana Nou,Chutala,Kharora Baqir,Sahmal, Cha Kameer,Bindi Baig Mehni,Dhunowala,Lakhnana Nou,Lakhnana Khona,Kaloo Sahmal,Kul Kuria,Joogra,Bela Rattar,Opth Bhadar Shah,Bindi Said Lal,Dhouan Muhammad,Dadowana Khona,Pepole Wala,Jahan Khan,Rajana,Katchan,Lughari,M ul Sultan,Havilee Dewan,Long Junoobi, Rakh Sajhowal,Pir Kot Sadhana,Chak Said Beram,Batafi,Chak Janpur,Kalar Quershi,Bulha Patowana, Bela Jotaanawala,Basti Balochan,Malkhiana,Alman Sharqi,Sobhaina Gharbi,Kot Braham,Lala Johla,Adhowana,Tehli Gadawali,Choori Noona,Jhugay Rug Shah,Bela Sahadani,Namdar Phully, Bela Patowana,Qadir Pur Khurd,Massan,Kot Bahadar

	Shorkot Janubi, Kakki Nau Doim, Kakki Nau Soim, Dab Kalan , Ghuman Marri, Hassu Balail, Fateh Pur Peratti, Kot Bahadar Shah, Meer Muhammad, Kot Murad, Rodu Sultan, Uch Gul Imam, Jaboana, Rasheed Pur, Wassu Astana, Doosa.	Pir Balol,Bela Quershi,Kharkhan,Bali Noulan Par,Chak Sialan, ObhanWala,Noonari,Mazari,Wanpal, Kot Essay, ShahSargana, Dhoukar,Jhoke Usman,Quershi, Jhoke Daya,Bhone,Jan Muhammad Khona,Bonga Tatari, Jahangir Pur,Pattai Alaanwali ,Doaba, Kolar,Thatha Mehla, Habib,Sumandri Khurd,Kabli, Gunyana, Bindi Patowana Kalan,Bela Bangus,Bela Chandi Nath,Kiran,Chak Madrasa,Khchiana,Bangus, Bhochra,Thathi Punjoo,Douka Balouchan,Kot Ram Kore,Thathai Quershian,Bhorana,Vighlana, Jhalar Wahab Shah,Bindi Patowana Khurd,Chak Jalal Din,Bhokni,Mahram Sial,Thathi Shah Shakoor, Haiden,Kalara,Deraj,Kot Sahib,Bela Anaranwala,Kot Khan,Chak Darzi,Mansoor Sial,Jharki, Bhagat Ram Jas,Tiba Dhup Sari,Chella,Topa Bela Gharbi,Dhedoana,Sultan Pur,Thathai Panah, Sabar,Lal Jhalar,Aqil Pur,Jangle Katora,Tehli Ghulamo,Kotla Afghana,Qadir Pur Katcha,Hasnana, Bindi Haiden,Denar,Hassan Khan,Kala Bali,Baloo Shahbal, Khanowana, Mongar,Jhang Chak Shumali, Chhatta Dilawari,Mohal,Chandia Fraz,Havilee Sheikh Rajoo, Kilcha,Khewa,Chak Aliana, Jangle Katanwala,Sialan Wala,Nidha Ghar,Zinda Shah,Chaund BharwanaSalamanaShah Jewana Bhutta,Ali PurMahran Wala,Chhatta,Kot Khera,Bela Mohal,	Shumali,Binda Palkana,Kot Bora,Najabat, Kot Sukha,Beli Ahmad Khan,Wasil Shah,Sajhar Kalassan,Bindi Amir Khan,Karamowana,Talwara, Saliana,Sai Sarwar,Khotiana,Bela Khotiana,Shana,Ghaghaiana,Hav ilee Ghulam Janat,Chak Ganish Das, Pir Balol,Bela Quershi,Kharkhan,Bali Noulan Par,Chak Sialan,ObhanWala,Noonari,Maza ri,Wanpal, Kot Essay, ShahSargana,Dhoukar,Jhoke Usman,Quershi,Jhoke Daya,Bhone,Jan Muhammad Khona,Bonga Tatari,Jahangir Pur,Pattai Alaanwali,Doaba,Kolar,Thatha Mehla,Habib,Sumandri Khurd,Kabli,Gunyana,Bindi Patowana Kalan,Bela Bangus,Bela Chandi Nath,Kiran,Chak Madrasa,Khchiana,Bangus,Bhoc hra,Thathi Punjoo,Douka Balouchan,Kot Ram Kore,Thathai Quershian,Bhorana,Vighlana, Jhalar Wahab Shah,Bindi Patowana Khurd,Chak Jalal Din,Bhokni,Mahram Sial,Thathi Shah Shakoor, Haiden,Kalara,Deraj,Kot Sahib,Bela Anaranwala,Kot Khan,Chak Darzi,Mansoor Sial,Jharki,Bhagat Ram Jas,Tiba
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		<p>Lou, Bhojowana ,Maghiana Chak Noon, Sajhowal, Bali,Nika Doultana,Ratta Matta Junoobi,Bori Ghulam Jahanain,Chak Sheikhana,Katcha Shameer, Thatha Koryana,Sher Grah,Qadir Pur Pakka,Qadian,Kot Dewan,Thatha Jhabana, Ratta Matta Shumali, Punjgrain,Korayana Junoobi,Chak Balouchan Wala,Pabar Wala,Jan Muhammad Nou18-Hazari, Latif Shah,Basti Sanga, Kamra, Lashkari,Amrana Janubi,Bela Chontdra, Chontdra, Sidha, Dhabi, Sarwani Patowani,Ludrka,Kotla Nake Ahmad,Munday Syed,Sobhiana Gharbi, Alman Gharbi,Loharan Wala,Kharal,Chokin Janpur, Malkana, Binda Malkana,Rasheed Pur, Kot Bahader Janubi,Binda Rasheed Pur,Jamali kalaan,Kot Murad,Pahard Pur,Trord,Parowana Shumanli, Basti Nusrat,Jaboana,Binda Jaboana,Dargahi Shah,Sultan Lashari,Dhan Miani,Bela Ali Khanana, Haveli Mohengar,Bati,Kot , Rustam,Lashari,Rodu Sultan,Kalyar Wala,Uchgul Imam,Raird,Wasu, Jamali Khurd,Fateh Shah,Shah Mehmood,Wasawa,Kasar Wala,Dara Sakhira,Dosa,Kotli Baqir Shah, Kot Maldev,Gadhri Fatehullah,Kunnal Sheroana,Chohan,Turk,Kurian Wala,Jhaki,Loha Bhidr, Machiwaal,Kot Langar,Noon Sangra,Jhok Bhorani, Machiana,Amrana Shumali, Sial,Sahjar,Aliana, Haveli Haji Mehmood,Kot Shakar,Guniana Joya</p>	<p>Dhup Sari,Chella,Topa Bela Gharbi,Dhedoana,Sultan Pur,Thathai Panah,Sabar,Lal Jhalar,Aqil Pur,Jangle Katora,Tehli Ghulamo,Kotla Afghana,Qadir Pur Katcha,Hasnana,Bindi Haiden,Denar,Hassan Khan,Kala Bali,Baloo Shahbal,Khanowana,Mongar,Jha ng Chak Shumali, Chhatta Dilawari,Mohal,Chandia Fraz,Havilee Sheikh Rajoo,Kilcha,Khewa,Chak Aliana, Jangle Katanwala,Sialan Wala,Nidha Ghar,Zinda Shah,Chaund BharwanaSalamanaShah Jewana Bhutta,Ali PurMahran Wala,Chhatta,Kot Khera,Bela Mohal,Lou,Bhojowana,Maghiana Chak Noon,Sajhowal,Bali,Nika Doultana,Ratta Matta Junoobi,Bori Ghulam Jahanain,Chak Sheikhana,Katcha Shameer,Thatha Koryana,Sher Grah,Qadir Pur Pakka,Qadian,Kot Dewan,Thatha Jhabana,Ratta Matta Shumali,Punjgrain,Korayana Junoobi,Chak Balouchan Wala,Jan Muhammad Nou18-Hazari, Latif Shah,Basti Sanga,Kamra,Lashkari,Amrana Janubi,Bela Chontdra,Chontdra,Sidha,Dhabi, Sarwani Patowani,Ludrka,Kotla Nake Ahmad,Munday</p>
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		<p>Mussali, Sangra, Chakwana,Ahmad Abad,Khokhar, Thathi Nusrat,Lal Daatri,Thathi Gul,Thathi Khair Shah,Thathi Mahrani,Paropi,Chandi Nashab,Ora, Bela Bakhshah,Bela Chandia,Mari Shah Sakhira, Goraya,Chandna,Bela Shehr,Butta Kotla,Balo, ThathiRahmon, Thathi Langar,Thathi Janoon,Tataar Kot,Chokin,Jand Maali, Jhalaar Fateh Khan,Dhirkaan,Jasrat Mal,Daal,Kot Noulan,Bela Surbana,Basti Rasheed,Ali Khanana, Bela Phulayanwala,Opuh Janjyana,Binda Fauja Dhara,Kulachi Fauja Dhara,Hassuwali,Nawab Pur, Kot Mahrana,Dab Kalan,Dab Kala,Jalala Dab,Kacha Kameera,Muhammad Yar Chishti, Sadiq Muhammad Jhandir,Sadan Nakukara,Dogar Malang,Tiba Jhandiran,Jafar Shah,Kotly Jhandeeran, Khan Pur, Bindi amlana, Obhanwala,Kharanwala,H.B.Shah Gharbi,Basti Waryam,Badh Rajbana Janubi, Yaray wala, Badh Rajbana Shumali,Dhalna Kamlana, Kakuwala,Naushehra,Mahram Sial,Budhuana, Binda Surbana,Allah Yar Joota,Khaki Lakhi,Jala Bharwana,Jalalpur Kamlana,Paruana Janubi, Khokhra Kamlana,Jhandir Niazi Wala,Bhako Sargana,Faqir Sial,Sadqana Merali,Najaf Shah,12/3L, Hazrat Sultan Bhao,Bhadwal,Deraj,Eneyat Shah,Bela Gharh,Bela Kamlana,Jhook Dargai Shah,</p>	<p>Syed,Sobhiana Gharbi,Alman Gharbi,Loharan Wala,Kharal,Chokin Janpur,Malkana,Binda Malkana,Rasheed Pur,Kot Bahader Janubi,Binda Rasheed Pur,Jamali kalaan,Kot Murad,Pahard Pur,Troed,Parowana Shumanli, Basti Nusrat,Jaboana,Binda Jaboana,Dargahi Shah,Sultan Lashari,Dhan Miani,Bela Ali Khanana, Haveli Mohengar,Bati,Kot , Rustam,Lashari,Rodu Sultan,Kalyar Wala,Uchgul Imam,Raird,Wasu, Jamali Khurd,Fateh Shah,Shah Mehmood,Wasawa,Kasar Wala,Dara Sakhira,Dosa,Kotli Baqir Shah, Kot Maldev,Gadhri Fatehullah,Kunnal Sheroana,Chohan,Turk,Kurian Wala,Jhaki,Loha Bhidr,Machiwaal,Kot Langar,Noon Sangra,Jhok Bhorani,Machiana,Amrana Shumali,Sial,Sahjar,Aliana,Haveli Haji Mehmood,Kot Shakar,Guniana Joya Mussali,Sangra,Chakwana,Ahma d Abad,Khokhar,Thathi Nusrat,Lal Daatri,Thathi Gul,Thathi Khair Shah,Thathi Mahrani,Paropi,Chandi Nashab,Ora,Bela Bakhshah,Bela Chandia,Mari Shah Sakhira,Goraya,Chandna,Bela</p>
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			<p>Bela Badh,Mud Rajbana,Basti Jhandir,3/2 L,Islam Pur Nasheeb,Islam Pur Faraz,BastiNorang,BendaGoli, Joosa,Teba Gehli,Fateh Pur Perity,Bahar Garbi,Peero,Bola,Neko Kara,Deyti Sial,Sabqi,Koat Mapal, Benda Gona Wala,Islam Wala,Meer Muhammad,Meerne Wala,Ghar Mahraja,5/2 L,Sewa Sadat, Hasso Balil, Dagree, Tango, Jaiveen,Mahmood Shah,Shah Yousfi,Basti Wali Muhammad Jhandir,4/2 L, 2/2 L, Jaana,Kot Bahadur,Lghari,Sanpal,Sadhana,Pee r Abdul Rehman Janobi, Peer Abdul Rehman Shumali,Ranjeet Koat,Vejj,Samdoana,Dull,Chak Norang Shah,Chadhard,2/3 L,4/4 L, Dori Gondal.</p>	<p>Shehr,Butta Kotla,Balo,ThathiRahmon,Thathi Langar,Thathi Janoon,Tataar Kot,Chokin,Jand Maali, Jhalaar Fateh Khan,Dhirkaan,Jasrat Mal,Daal,Kot Noulan,Bela Surbana,Basti Rasheed,Ali Khanana, Bela Phulayanwala,Opuh Janjyana,Binda Fauja Dhara,Kulachi Fauja Dhara,Hassuwali,Nawab Pur, Kot Mahrana,Dab Kalan,Dab Kala,Jalala Dab,Kacha Kameera,Muhammad Yar Chishti,Sadiq Muhammad Jhandir,Sadan Nakukara,Dogar Malang,Tiba Jhandiran,Jafar Shah,Kotly Jhandeeran,Khan Pur,Bindi amlana,Obhanwala,Kharanwala, H.B.Shah Gharbi,Basti Waryam,Badh Rajbana Janubi,Yaray wala,Badh Rajbana Shumali,Dhalna Kamlana,Kakuwala,Naushehra,M ahram Sial,Budhuana,Binda Surbana,Allah Yar Joota,Khaki Lakhi,Jala Bharwana,Jalalpur Kamlana,Paruana Janubi,Khokhra Kamlana,Jhandir Niazi Wala,Bhako Sargana,Faqir Sial,Sadqana Merali,Najaf Shah,12/3L,Hazrat Sultan Bhao,Bhadwal,Deraj,Eneyat Shah,Bela Gharh,Bela Kamlana,Jhook Dargai Shah,</p>
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				<p>Bela Badh,Mud Rajbana,Basti Jhandir,3/2 L,Islam Pur Nasheeb,Islam Pur Faraz,BastiNorang,BendaGoli, Joosa,Teba Gehli,Fateh Pur Perity,Bahar</p> <p>Garbi,Peero,Bola,Neko Kara,Deyti Sial,Sabqi,Koat Mapal, Benda Gona Wala,Islam Wala,Meer Muhammad,Meerne Wala,Ghar Mahraja,5/2 L,Sewa Sadat, Hasso</p> <p>Balil,Dagree,Tango,Jaiveen,Mah mood Shah,Shah Yousfi,Basti Wali Muhammad Jhandir,4/2 L,2/2 L,Jaana,Kot Bahadur,Lghari,Sanpal,Sadhana, Peer Abdul Rehman Janobi, Peer Abdul Rehman Shumali,Ranjeet</p> <p>Koat,Veji,Samdoana,Dull,Chak Norang Shah,Chadhard,2/3 L,4/4 L, Dori Gondal.</p>
Urban Flooding	-	-	-	Municipality Areas specially Jhang Saddar & Jhang City
Earthquake	-	-	-	Less probability- Whole District
Drought	-	-	-	-
Epidemic	-	-	-	-

Environmental Hazards (industrial accidents, severe pollution etc.)	-	-	-	-

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

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	DHQ Jhang Gojra Road Satelite town	31.258668 72.329748	DHQ	Dr. Irtaza Ul Hasnain 0321-6502323	Flood
2	THQ Jhang City		THQ	Dr. Rehman 0321-6502425	Flood
2	THQ Hospital Shorkot Multan Road Shorkot	30.820752 72.070601	THQ	Dr.Ghulam Rasool 0331-7064048	Flood
3	THQ A.P Sial A.P Sial	30.687046 71.762485	THQ	Dr.Hafeez Ullah 0300-6505109	Flood
4	THQ 18 Hazari Wasoo	31.183384 72.078579	THQ	Dr.Zafar Hassan 0301-6997007	Flood
5	RHC Mochiwala Faisalabad Road Mochiwala	31.298632 72.531820	RHC	Dr. Amir Hussain 0343-8038122	Flood
6	RHC Mukhiana Chiot Road Mukhiana	31.401244 72.413260	RHC	DR. Aashiq Hussain 0345-7618124	Flood
7	RHC Shah Jewana Lalian Road Shah Jewana	31.518336 72.339606	RHC	Dr.Amjid Rauf 0300-7501355	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.)
8	RHC H.S Rajoo Haveli Sheikh Rajoo	31.423549 72.264675	RHC	Dr. Shujat Abbas 0324-4540941	RHC H.S Rajoo Haveli Sheikh Rajoo
9	RHC Bagh Toba Road Bagh	31.204621 72.341831	RHC	Dr. Mansoor Ahmed 0300-6508199	RHC Bagh Toba Road Bagh
10	RHC KotShakir Khushab Road KotShakir	31.483185 72.082720	RHC	Dr. Abid Hussain 0345-7619881	RHC KotShakir Khushab Road KotShakir
11	RHC Rodu Sultan Layya Road Rodu Sultan	31.061051 71.998643	RHC	Dr. Abdul Khaliq 0300-8178219	RHC Rodu Sultan Layya Road Rodu Sultan
12	RHC G.M Raja Garh Maharaja	30.519508 71.542131	RHC	Dr. Amir Raza 0300-8556663	RHC G.M Raja Garh Maharaja
13	RHC H.B.Shah Haveli Bahadur shah	31.080927, 72.184891	RHC	Dr. Khursheed Abid 0332-6261533	RHC H.B.Shah Haveli Bahadur shah
14	RHC Waryam Wala Waryam Wala	30.967777 72.254918	RHC	Dr. Arshed.Hussain 0333-6754910	RHC Waryam Wala Waryam Wala
15	Kot Sai Singh Kot Sai Singh	31.278413 72.347385	BHU	Dr. Sumaira Tariq 0333-6749759	Kot Sai Singh Kot Sai Singh
16	Chak 446 Chak-446	31.227482, 72.487821	BHU	Dr.Ayesha 0348-4732768	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.)
17	KotLakhnana KotLakhnana	31.234659, 72.417843	BHU	Dr. Sara Tariq 0335-6277585	Flood
18	Hevali Lal Heveli Lal	31.105328, 72.293096	BHU	Dr. Zoha Ali 0332-4977785	Flood
19	Vijhlana Vijhlana	31.210882, 72.276373	BHU	Dr. Ali Raza 0333-7041318	Flood
20	Ashaba Ashaba	31.135839, 72.336239	BHU	Dr.Rabia 0333-9935244	Flood
21	Pakkaywala Pakkaywala	31.370693, 72.318392	BHU	Dr. Aqsa Javed 0336-1161682	Flood
22	Sultan Pur Sultan Pur	31.405640, 72.440225	BHU	Dr.Ali Ameer Mehdi 0333-8965507	Flood
23	Sheikh Chuhar Sheikh Chuhar	31.384107, 72.416699	BHU	Dr.Qamer Mohiudin Chema 0344-7319336	Flood
24	Khanuana Khanuana	31.460569, 72.502989	BHU	Dr.syed Ali Ishaq 0312-6500539	Flood
25	Chak N0- 231 Chak N0- 231	31.406221, 73.137864	BHU	Dr.Asfand Yar 0333-6544381	Flood
26	Chak No- 165 Chak No- 165	31.404098, 73.137148	BHU	Dr. Arooj Abbas 0337-7766240	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.)
27	Chak No- 170 Chak No- 170	31.353652, 72.540466	BHU	Dr.Muhammad Talha 0313-6622255	Flood
28	SaeedabadChak / 254 Saeedabad	31.313703, 72.647478	BHU	Dr. Aqsa Liaqat 0305-6626065	Flood
29	Chak No- 181 Chak No- 181	28.173623, 69.961796	BHU	Dr. Abu Zar 0333-2956006	Flood
30	Chak No- 220 Chak No- 220	31.305248, 72.460949	BHU	Dr.M Hassan 0333-2009995	Flood
31	Mallhuana Mallhuana	31.146800, 72.222947	BHU	Dr. Nadeem Kashif 0343-7909594	Flood
32	Lak Baddar Lak Baddar	31.103171, 72.260713	BHU	Dr.Faiza Kiran 0313-7699470	Flood
33	Munday Syed Munday Syed	30.744338, 72.044199	BHU	M Sarfaraz 0344-8772959	Flood
34	Rashid Pur Rashid Pur	31.132422, 72.095632	BHU	Dr.Waseem Ahmad 0303-7686054	Flood
35	Jabbuana Jabbuana	31.103405, 72.086349	BHU	Dr. Maryam Seemab 0342-4468828	Flood
36	Uch Gul Imam Uch Gul Imam	31.132602, 71.975186	BHU	Dr.Sajid Abbas	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.)
				0343-4400351	
37	Machiwal Machiwal	32.777536, 73.923281	BHU	Dr Zuqarnain Haider 0343-8787008	Flood
38	Bulloo Bulloo	31.724024, 72.150414	BHU	Dr. Sajid Abbas 0345-4385876	Flood
39	Ali Pur Ali Pur	31.416464, 73.365742	BHU	Dr. Fryal Nasir 0341-2605956	Flood
40	Iqbal Nagar Iqbal Nagar	31.488059, 72.255793	BHU	Dr.Umair Sarwar 0344-6597135	Flood
41	PirKot PirKot	31.272370, 72.160780	BHU	Dr. Sadiq Ali 0343-7943053	Flood
42	Salyana Salyana	31.346142, 72.140972	BHU	Dr Umer Rafique 0348-6491640	Flood
43	Hassan Khan Hassan Khan	31.387010, 72.233516	BHU	Dr.Abdul Haq 0346-8616483	Flood
44	Ratta Matta Ratta Matta	31.578757, 72.407222	BHU	Dr.Muhammad Usman 0343-4196641	Flood
45	Kariwala Kariwala	30.948487, 71.850586	BHU	Dr.Usman Latif 0333-6721441	Flood
46	Mandi Shah Jewana	31.520093, 72.340593	BHU	Dr.Daniyal Haider	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.)
	Mandi Shah Jewana			0313-5268080	
47	Chattah Chattah	31.557981, 72.230001	BHU	Dr.Muhammad Zeshan 0333-3307456	Flood
48	NidhaGhar NidhaGhar	31.399429, 72.052217	BHU	Dr Atif Hussain 0300-6071105	Flood
49	Bhero Bhero	31.720980, 72.300755	BHU	Dr.Fatima Nawaz 0346-9597034	Flood
50	Chayanwala Chayanwala	30.983698, 72.267611	BHU	Dr Faisal Saeed 0346-7292872	Flood
51	Allah YarJoota Allah YarJoota	30.921453, 72.090936	BHU	Dr. Faheem Saleem Mughal 0333-6741235	Flood
52	Kot Mirza Kot Mirza	30.966084, 72.291538	BHU	Dr. Umer Farooq 0342-7709728	Flood
53	PirBahadar Shah, PirBahadar Shah	30.922535, 72.155202	BHU	Dr. Muhammad Saeed 0300-6771249	Flood
54	Chak No- 482, Chak No- 482	31.017278, 72.319467	BHU	Dr Muhammad Shoib Sarwar 0300-6676670	Flood
55	Chak No- 497, Chak No- 497	30.842961, 72.216288	BHU	Dr. Farukh Raza 0303-9885326	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.)
56	Chak No. 17 Gagh, Chak No. 17 Gagh	32.453825, 73.323596	BHU	Dr Ayyesha Latif 0333-4506880	Flood
57	BadhRajbana, BadhRajbana	30.824376, 72.022526	BHU	Dr. Hammad Yaqoob 0334-5587212	Flood
58	Khumanawala, Khumanawala	30.817533, 72.164233	BHU	Dr Ayyesha Iqbal 0334-6566944	Flood
59	KakkiNou, KakkiNou	30.766794, 72.032171	BHU	Dr. Shehzad Ahmed Sattar 0301-7692476	Flood
60	Dab Kalan, Dab Kalan	30.716635, 71.888303	BHU	Dr Muhammad Ammar Yasir 0336-6313737	Flood
61	Khaki Lakhi, Khaki Lakhi	30.718527, 71.884124	BHU	Dr. Adnan Illyas 0309-5269196	Flood
62	Jalal Pur, Jalal Pur	30.689602, 71.895625	BHU	Nayyar Abbas SH&NS 0333-5684931	Flood
63	Sammanduana, Sammanduana	30.628095, 71.747921	BHU	Dr. Miraj Gull 0302-7889083	Flood
64	Essaywala, Essaywala	30.756989, 71.784687	BHU	Dr.Ambreen Sarwar 0304-9710786	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.)
65	PirAbdur,Rehman	30.689697, 71.771796	BHU	Dr.Ehsan Bari 0321-6863258	Flood
66	Hazrat Sultan Bahoo	30.836936, 71.852270	BHU	Dr. Zunaira Khalid 0303-7698600	Flood
67	Chak-4/2-L, Chak-4/2-L	31.265172, 72.319854	BHU	Dr.Sumaira Munir 0300-4064891	Flood
68	Gudara, Gudara	30.887932, 71.835284	BHU	Dr. Shahla Mujahid Raza 0303-7018042	Flood
69	HassuBalail, HassuBalail	31.027268, 72.001122	BHU	Dr.Muhammad Zakria 0333-6574646	Flood
70	Nekurara	30.989874, 72.017899	BHU	Dr. Muhammad Adrees 0300-4623353	Flood
71	Sharifabadabad	30.937200, 71.918553	BHU	Dr. Bilawal Sultan 0311-0201502	Flood
72	Basti Rasheed, Basti Rasheed,	31.130071, 72.093916	UD (Unani Dispensary)		Flood
73	Sultan Pur, Sultan Pur	31.405080, 72.443815	UD (Unani Dispensary)	Maqbool Ahmed 0345-7987812	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.)
74	ChahJaan Muhammad	31.282745, 72.295934	RD (Rural Dispensary)	Anser Abbas 0301-4518442	Flood
75	KharoraBaqir	31.454296, 72.411658	SHC (General Dispensary)	Sajid Ali Shah 0301-7225480	Flood
76	Kull korai, Kull korai	31.325161, 72.346127	GRD (General Dispensary)	Waqas Disp 0343-0851184	Flood
77	Rajana, Rajana	30.856602, 72.547230	GRD (General Dispensary)	Yasmin Akhter Mid Wife 0348-0064187	Flood
78	Jhaggar, Jhaggar	31.372855, 72.154937	GRD (General Dispensary)	Ghulam Mustafa Disp 0343-7910609	Flood
79	Kharkan, Kharkan	30.989874, 72.017899	GRD (General Dispensary)	Asif Abbas Disp 0346-7575379	Flood
80	Massan, Massan	31.309628, 72.186676	GRD (General Dispensary)	Muhammad Safdar MT 0345-7598627	Flood
81	DhanMiani, DhanMiani	31.079337, 72.074388	GRD (General Dispensary)	Anwer Ali 0306-9014730	Flood
82	Dhano Wala	30.978150, 72.013249	GRD (General Dispensary)	Hafiz Nazeer 0344-7930002	Flood
83	Meernay Wala	30.906209, 71.949219	GRD (General Dispensary)	Muhammad Ramzan Disp 0300-8174054	Flood
84	Chak Jan Pur, Chak Jan Pur	31.144565, 71.736546	GRD (General Dispensary)	Safeerul Din 0307-2241530	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.)
85	Zafar Abad, Zafar Abad	30.906209, 71.949219	GRD (General Dispensary)	Muhammad Sarfraz Disp 0345-7582581	Flood
86	Lakhan Wala, Lakhan Wala	30.862452, 71.919430	SHC (General Dispensary)	Ahmed Hassan Disp 0344-7922382	Flood
87	T.B Clinic Gojra Road	31.263211, 72.333516	T.B Clinic	Dr. Jahangir	Flood

ANNEX IV:LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GPS Baili Wala	Primary	31.25156 72.30003	93	IkhlaqUI Hassan Naeem	0346- 9631214
2	GMPS Akbar Pura	Primary	31.19517 72.23159	180	Kausar Perveen	0344- 7124472
3	GPS Bela Mohal	Primary	31.20551 72.23445	121	Allah Ditta	0344- 7933288
4	GMPS Hassan Wala	Primary	31.20917 72.25611	144	Shah Jahan	0340- 7230603
5	GPS Chak Noon	Primary	31.62598 72.39499	118	Muhammad Nadeem Iqbal	0343- 6276951
6	GMPS ChakKacha	Primary	31.2589 72.28995	687	Muhammad Yaqoob	0341- 6763063
7	GPS Balian	Primary	31.525036 72.3796202	296	Qaswar Abbas	0346- 0008131
8	GPS Sher Garh	Primary	31.5315345 72.3641221	50	Sultan Mehmood	0347- 2122399
9	GPS Monghar	Primary	31.4900912 72.3505318	187	Muhammad Hanif	0342- 6917145
10	GPS Khallar Awan	Primary	31.5554263 72.3873496	90	Muhammad Azeem	0343- 6171162
11	GES Sultan Bakhsh	Middle	31.58661 72.20672	148	Yasir Nadeem	0313- 7017200

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
12	GPS Thatta Kamira	Primary	31.6432 72.2255	83	Asmat Shehzad	0347-7739837
13	GMPS Bindi Lal Mureed	Primary	31.6073 72.21462	298	Iram Ashraf	0349-6718323
14	GMPS Kiran	Primary	31.61982 72.19914	285	Safia Sultana	0322-6554078
15	GPS Nehalay Wala	Primary	31.60629 72.1602	200	Kashif Ul Hassan	0301-6614622
16	GMPS QadirPur	Primary	31.58342 72.16855	202	Ubaida Iram	0349-2349968
17	GPS ThattiKhaira	Primary	31.5761 72.15553	134	Zahoor Ahmad	0344-4770926
18	GPS DoukaBlouchan	Primary	31.55049 72.1958	170	Mohsin Abbas	0343-7929571
19	GPS DarbarFateh Shah	Primary	31.57444 72.19083	43	Nauman Ghiyas	0344-7900786
20	GGES Boori.	Middle	31.7338948 72.2678127	140	Sonia Akhtar	0346-1372673
21	GGPS Lau.	Primary	31.62669 72.19626	105	NusratShaheen	0343-4658429
22	GGPS Chatteywala.	Primary	31.63962 72.19812	130	Zahira Akhtar	0343-7924783

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
23	GMPS QadirPur.	Primary	31.58342 72.16855	138	AzraPerveen	0340- 7774063
24	GGPS Jamal Wala.	Primary	31.58522 72.21149	125	Sehar Gull	0316- 6509963
25	GGPS Vanpal.	Primary	31.61676 72.17739	85	Sonia Khalid	0348- 8664956
26	GGPS ThathiQureshian.	Primary	31.61982 72.19023	96	Saeed Akhtar	0344- 3156772
27	GGPS Subhagha.	Primary	31.62167 72.2155	51	Farhat Bibi	0347- 6922377
28	GGPS Thatha Kameera.	Primary	31.64321 72.22549	65	Maqsood Akhtar	0345- 8966361
29	GHS Chatta	High	31.60571 72.17723	329	Syed Muhammad Yasir Raza	0341- 8383772
30	GMPS Qadian	Primary	31.67916 72.17873	130	FarhatJabeen	0343- 7918197
31	GMPS SehvaMajoka	Primary	31.72256 72.22517	104	Shahida Parveen	0344- 3116856
32	GMPS NadhaGhar	Primary	31.7348684 72.3063932	183	Arifa Yasmeen	0340- 7478976
33	GGES Jhoke Daya	Middle	31.68864 72.25596	101	Baneeta Zahra	0347- 6595542

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
34	GPS Kot Eisa Shah	Primary	31.69147 72.19255	216	Muhammad Ramzan Haideri	0346-7296356
35	GMPS Duaba	Primary	31.67783 72.18929	96	Kalsoon Akhtar	0342-7941903
36	GES Bhone	Middle	31.7702771 72.2474882	406	Mehboob Ali	0345-5419403
37	GHS Kot Esa Shah	High	31.6868 72.1945	578	Tasawar Abbas	0332-6280996
38	GGHS Kot Esa Shah	High	31.68783 72.19729	538	Khalida Begum	0336-7560207
39	GGPS Jan Muhammad Nau.	Primary	31.7474671 72.2528478	50	Nazia Bashir	0344-7561265
40	GGPS Jhok Usman.	Primary	31.71223 72.19918	83	Iffat Batool	0341-7470517
41	GGPS ThathiBaqir.	Primary	31.6668 72.17272	18	Hadiba Naqvi	0300-6504236
42	GGPS Dhokar.	Primary	31.72999 72.21285	94	TallatNaheed	0343-8795078
43	GGPS Doaba.	Primary	31.40332 72.6162	134	Kalsoon Akhtar	0342-7941903
44	GGPS Haidhen.	Primary	31.66198 72.19596	82	Samina Akhtar	0347-4819904

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
45	GMPS BoongaTatari.	Primary	31.76676 72.2134	80	Samina Begum	0301-6996345
46	GMPS SehwaMajooka.	Primary	31.72256 72.22517	64	Mureed Fatima	0347-5529024
47	GPS DarbarLakhi Shah	Primary	31.773338 72.251634	86	Muhammad Nadeem Abbas	0345-8664805
48	GMPS KotKhushal	Primary	31.66266 72.2292	98	Naseem Akhtar	0348-1177275
49	GMPS Bindi Haiden	Primary	31.66198 72.19596	185	Mureed Fatima	0341-7757279
50	GMPS Atuana	Primary	31.6617922 72.2554631	85	Najma Kamal	0345-8734711
51	GMPS Koler	Primary	31.71216 72.19914	181	Mushtaq Ahmad	0343-7011486
52	GPS Patti Allahwali	Primary	31.69838 72.20447	65	Hafiz Zafar Iqbal	0346-6970001
53	GPS Bannay Wala	Primary	31.701156 72.20671	54	Yasir Ameer	0302-9313006
54	GPS Boori	Primary	31.7361174 72.2652356	64	Muhammad Abdul Rehman	0345-7740467
55	GGPS Patai Allan Wali.	Primary	31.69838 72.20447	62	Zakia Begum	0343-4429323

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
56	GGPS JihangeerPur.	Primary	31.72047 72.24411	46	Shehnaz Akhtar	0341-0563045
57	GGPS New Delhi.	Primary	31.7399449 72.2699858	79	Kausarperveen	0345-1707805
58	GPS Lodharan Wala	Primary	31.24887 72.09441	60	Liaqat Ali	0345-5270861
59	GMPS Kamara	Primary	31.19161 72.12375	260	Abid Hussain	0345-1163144
60	GPS Basti Sangha	Primary	31.18266 72.15017	102	Muhammad Bilal	0308-7388804
61	GGES Munday Syed	Middle	31.27671 72.01811	280	Sumaila Bukhari	03432443065
62	GG CMS Subhyana Gharbi	Primary	31.26025 72.09236	224	Sidra TulMuntaha	03357634226
63	GMPS Dhabbi	Primary	31.23999 72.08869	147	Asma Nawaz	0348-1593059
64	GGPS Garhi FatehUllah No.1	Primary	31.26729 72.08682	75	Sadia Parveen	0344-0766060
65	GGPS Kharal Sipra	Primary	31.23994 72.08876	229	Tanveer Akhtar	03477424736
66	GGPS Aalma Gharbi	Primary	31.25182 72.09061	76	Rabia Shafi	0300-7685064

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
67	GPS Kot Rustam	Primary	31.03405 72.06407	194	Muhammad Zafar	0300- 2588059
68	GPS Kot Shakir	Primary	31.48196 72.08656	225	Muhammad RamzanAsi	0301- 3967096
69	GMPS Khokharnwala	Primary	31.49487 72.1078	81	Sadia Sarwar	0349- 7501150
70	GMPS Joya	Primary	31.489 72.10425	109	Munazza iqbal	0347- 8809928
71	GES Chandna	Middle	31.51028 72.099666	518	Abdul Raheem Qasim	0300- 6502889
72	GPS Khan Pur	Primary	31.4742 72.09559	51	Saleem Ahmad	0346- 7864528
73	GGPS Ahmad Abad No 1	Primary	31.4924 72.09274	32	AmnaBaigham	03468765985
74	GPS Dosa	Primary	31.21621 72.01633	190	Ghulam Shabbir	0301- 5741679
75	GMPS Garhi Fateh Ullah	Primary	31.2758 72.01711	165	Asma Anwar	0340- 7205024
76	GMPS Jandian Wala	Primary	31.32787 72.02831	137	Najma Batool	0348- 7511384
77	GHS Kot Maldave	High	31.21387 72.01611	326	Muhammad Saeed	0334- 3787854

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
78	GGPS Kot Maldave	Primary	31.21356 72.01856	48	Abida Safdar	0348-6722315
79	GMPS Kurrian Wala	Primary	31.33944 72.077319	166	Safia Bibi	0343-7823006
80	GMPS Dauka	Primary	31.55049 72.1958	177	Fauzia Rani	0349-2131604
81	GPS Basti Malah	Primary	31.30472 72.27734	252	Nasir Abbas	0336-0692626
82	GES Patuana	Middle	31.32514 72.29108	279	Muhammad Waris	0346-7250740
83	GES Habib	Middle	31.34097 72.29914	247	Muhammad Waris	0346-7250742
84	GGES Kabli	Middle	31.40656 72.13736	265	Shahnaz Akhtar	03420460365
85	GMPS Jangle Katora	Primary	31.42023 72.1914	101	MuzafarMumtaz	03455294612
86	GMPS ChakBaloachan	Primary	31.47738 72.21359	125	RabiaBasree	03468708639
87	GGPS ThattaKoriana	Primary	31.43108 72.27517	104	KouserPerveen	03136261886
88	GES KharoraBaqir	Middle	31.46799 72.46684	549	Tabbarak Hussain	0346-3434795

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
89	GPS KharoraBaqir (W)	Primary	31.4907452 72.4248653	120	Muhammad Iqbal	0341-3181795
90	GPS Bhouchra	Primary	31.50246 72.4987033	113	Zahoor Ahmad	0343-7607038
91	GPS BindiBaigMahni	Primary	31.45331 72.38207	94	Muhammad Sharif	0343-2452640
92	GPS DeraWaryam	Primary	31.30539 72.30263	73	Mehmood Hassan UI	0343-1700076
93	GMPS BudhayKi	Primary	31.4521423 72.4550056	385	Ghulam Dastageer	03446830278
94	GPS Wali Mohammad wala	Primary	31.43678 72.39542	97	Ubaid UIRehman	0347-6001005
95	GMPS Dhannu Wala	Primary	31.43223 72.34558	100	Asia Bano	0332-6282570
96	GPS Lakhnana Abad (PEF)	Primary	31.4598392 72.4675047	150	Mumtaz Hussain	0344-7900418
97	GES BindiPatuana	Middle	31.25329 72.15118	322	Manzoor Hussain	0343-7994445
98	GPS KotBehram	Primary	31.30167 72.14682	201	Muhammad Yousaf	0347-7242743

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
99	GPS Nikka Blouchan	Primary	31.29017 72.13014	94	Zafar Iqbal	0347-8379510
100	GMPS Massan	Primary	31.308499 72.187493	200	Sadaf Niaz	0341-0611300
101	GPS Magha Patuana	Primary	31.23503 72.13124	203	Muhammad Akram	0333-6738150
102	GGPS Bullah Patuana	Primary	31.22431 72.17796	81	Rabia Shafiq	0310-8383900
103	GPS Dheduana	Primary	31.27671 72.21414	110	Imam Bukhsh	0341-6907297
104	GPS Lalla Juhla	Primary	31.29629 72.15511	68	Ghulam Yaseen	0344-1674313
105	GPS Bindi Patuana	Primary	31.26024 72.14488	62	Muhammad Ashraf	0345-6787028
106	GPS Bela Chontra	Primary	31.2228 72.1377	147	Muhammad Ehsan	0341-7864641
107	GPS Namdar Phulhi	Primary	31.25083 72.17471	208	Raza Mustafa	0347-2131840
108	GPS Bela Jutian Wala	Primary	31.20165 72.14868	62	Zulfiqar Ali	0345-8900487
109	GPS Tahli Gaddanwali	Primary	31.25468 72.20994	184	Muhammad Ehsna	0342-5833446

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
110	GHS Pir Kot Sadhana	High	31.270548 72.164045	689	Zil Abbas Shah	0346-5532846
111	GGPS BindiPatoana	Primary	31.25161 72.15303	55	Asia Latif	0342-5806500
112	GGPS BastiPathan	Primary	31.29815 72.18414	114	Kausarperveen	0348-7748256
113	GGPS Udhoana	Primary	31.31012 72.14054	48	Kaneez Fatima	0341-7868694
114	GGPS LahlaJohla	Primary	31.28983 72.15104	21	Mumtaz Begum	0344-7914501
115	GGPS Nikkay Baloach	Primary	31.29439 72.13632	51	Sajida Parveen	0342-1939547
116	GGPS Alma Sharqi	Primary	31.26731 72.1351	81	Bushra Nawaz	0306-9850568
117	GMPS Chak Jan Pur	Primary	31.24181 72.19829	159	Attia javaid	0342-0869316
118	GGPS Chah Gul Wala	Primary	31.29235 72.1631	51	Iram Fatima	0345-4128268
119	GPS Mehram Sial	Primary	31.33347 72.18323	64	Ghulam Safdar	0345-7618953
120	GES Jharki	Middle	31.32623 72.21621	442	Farooq Ahmad	0306-7221811

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
121	GPS Kharkhin	Primary	31.35952 72.23251	235	Muhammad Iqbal	0347- 7937355
122	GPS Zafar Abad	Primary	31.135725 71.960192	92	Ghulam Abbas	0301- 3936759
123	GGES Hassan Khan	Middle	31.38746 72.23529	225	Alia Aziz	03407602012
124	GGPS Gairaian Wala	Primary	31.37387 72.23599	50	Rabia Ali	0348- 5996384
125	GGPS Khawar Abbas	Primary	31.37354 72.18145	52	Nasreen Akhtar	0345- 3737186
126	GGPS Mehram Sial	Primary	31.34256 72.18531	80	Fauzia Bibi	0345- 7607735
127	GGPS ChakDarzi	Primary	31.31637 72.22145	32	Muzzamil Jahangir	0345- 6200980
128	GGPS Chak Jalal Din	Primary	31.35999 72.18883	142	NasiraPerveen	0306- 7500610
129	GGPS PirBehlol	Primary	31.37024 72.1917	84	RukhsanaJabeen	0345- 4574603
130	GMPS ThattiKhair Shah	Primary	31.50101 72.15536	167	Muhammad Ijaz	03423775937
131	GMPS Sabhar	Primary	31.55049 72.1958	176	Naila Noreen	0312- 0744469

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
132	GMPS Long Janubi	Primary	31.4763 72.15481	190	Muhammad Hayyat	03437438584
133	GES Kalera	Middle	31.51144 72.14779	340	Muhammad Asif	0345-1705710
134	GHS Kot Khan	High	31.45773 72.15582	300	Sikandar Hayat	0334-6334780
135	GGES Kot Khan	Middle	31.46009 72.55653	269	Narjis Perveen	03427902949
136	GGPS Pabbar Wala	Primary	31.49737 72.25616	151	Fahmeeda Yasmeen	03467288565
137	GGPS Hassan Abdal	Primary	31.45648 72.18197	79	ShehzadiShahida	0347-7718233
138	GGPS Kot Khan Sharqi	Primary	31.47824 72.1756	52	Batool Fatima	0300-2860190
139	GGPS Chak Aliana	Primary	31.45872 72.13704	171	Ishaq Khan	0345-7585408
140	GMPS Laghari	Primary	31.54424 72.15648	156	ShafqatAbass	03457944550
141	GGPS ThattiPannah	Primary	31.51325 72.16917	139	Hadia-Tun-Nisa	0303-4699600
142	GGPS Guniana	Primary	31.48136 72.14348	133	Sumaira Yasmeen	0348-6057448

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
143	GGPS Kalaira	Primary	31.51145 72.14775	66	Nadia Tahir	0346-5031050
144	GGPS Mall Sultan	Primary	31.55052 72.16305	33	Sobia Naureen	0348-1737934
145	GMPS Bela Bhurana	Primary	31.36129 72.1249	102	Asif Shehzad	0342-7913955
146	GHS Chela	High	31.38695 72.14283	561	Khizzar Abbas	0344-7816788
147	GGHS Chela	High	31.38887 72.14246	427	Tahira Mubeen	0341-4404873
148	GHS Salyana	High	31.34464 72.14124	576	Muhammad Ramzan	0345-7581037
149	GHS Sher Chakir	High	31.39293 72.1995	568	Zafar abbas	0335-6728763
150	GGHS Sher Chakir	High	31.3897 72.20089	425	Rehana Bibi	0308-7204797
151	GGPS Kot Boora	Primary	31.39975 72.17083	81	Asia Gull	0341-0163423
152	GMPS Jhaghar	Primary	31.36831 72.13939	202	ShaguftaJabeen	0348-7518522
153	GGPS ChahBohar Wala	Primary	31.3914 72.16104	26	ShahziaRamzan	0346-7244721

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
154	GMPS Rajana	Primary	31.42254 72.15026	53	Shaukat Hayyat	0346- 8771748
155	GGPS BoharPio Maran	Primary	31.40929 72.22464	50	Khurshid Begum	0346- 7261909
156	GGPS Arri Wala	Primary	31.37228 72.20363	23	Nazia Riaz	0344- 0817389
157	GGPS Wasal Shah	Primary	31.35426 72.14826	96	Robina Manzoor	0343- 7911158
158	GGPS Thatti Shah Shakoor	Primary	31.34469 72.14896	75	Musarrat Begum	0344- 7950330
159	GGPS Talwara	Primary	31.3355266 72.154683	102	Saira Ijaz	0345- 6500574
160	GGPS KotSukha	Primary	31.35767 72.14108	45	Naseem Akhtar	0345- 8156412
161	GGPS Baili Ahmad Khan	Primary	31.36334 72.13035	33	UzmaRiaz	0340- 4821837
162	GGPS Tarrana	Primary	31.3486 72.13008	45	Shehnaz Bibi	0343- 7895041
163	GMPS Khotiana	Primary	31.33691 72.1294	185	Muhammad Iqbal	0346- 7297138
164	GMPS SajharClassan	Primary	31.31716 72.12613	235	Hakim Bibi	0347- 9501472

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
165	GGPS Ghughiana	Primary	31.35054 72.10652	20	Sajida	0348- 7369001
166	GGPS Chah Shah Alam	Primary	31.32589 72.16734	49	Nadia Batool	0347- 9550007
167	GGPS Anwar Abad	Primary	31.39175 72.17721	95	Khursheed Akhter	0346- 7296680
168	GPS Dab Jalala	Primary	30.71512 71.88872	160	Muhammad Nasir	0304- 3418841
169	GPS Khizar Hayat wala	Primary	30.7505 71.89239	105	Muhammad Afzal	0302- 2101727
170	GPS Sadhan Nekokara	Primary	30.69004 71.89526	150	Muhammad Imran	0332- 6006862
171	GMPS Kacha Kabira	Primary	30.69085 71.85533	203	Iqbal Baigam	0345- 3253284
172	GES Kharanwala	Middle	30.7934 71.9517	160	Muhammad Azhar Iqbal	0333- 6763027
173	GPS Basti Hasnana	Primary	30.78033 71.93396	82	Muhammad Arshad	0335- 7134868
174	GMPS Noshehra	Primary	30.75097 71.91523	164	Attia Batool	0305- 5387543
175	GES Hassu Wali	Primary	30.878256 72.046856	540	Muhammad Shoab	0333- 6084182

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
176	GPS Apath Janjiana	Primary	30.993733 72.102116	143	Farrakh Mehmood	0345-7616784
177	GPS Nawab Pur	Primary	30.879734 72.035183	110	Muhammad Riaz	0306-8181905
178	GMPS Mouza Ali Khanana	Primary	30.64872 71.77772	160	Kalab Ali	03476893014
179	GMPS Bela Surbana	Primary	31.020893 72.129587	359	Allah Ditta	03356697031
180	GES Mehram Sial	Middle	31.021905 72.152817	536	Abdul Majeed	0345-5192952
181	GPS Basti Meharban Shah	Primary	31.087051 72.17607	106	Sumayya Kauser	0344-8151041
182	GMPS Wali Mohammad Jhandir	Primary	30.6383 71.7602	111	Muhammad Zafar	03336763805
183	GMPS Faqir Sial	Primary	30.6370997 71.8099022	211	Mulazim Hussain	03336766471
184	GHS Samandoana	High	30.6335 71.74607	448	Muhammad Ishaq	0334-7716925
185	GGHS Samandoana	High	30.63319 71.74505	510	Farrukh Tehsin	0333-0765545
186	GPS Shah Alamwala	Primary	30.7513 71.82742	56	Muhammad Raza Shah	0300-7733326

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
187	GGPS Islam PurNashaib	Primary	31.01178 72.04916	138	Asifa Batool	03029302850
188	GMPS Islam PurFaraz	Primary	31.00584 72.04762	128	Fauzia Tabassum	0334-7016848
189	GGES FatehPurPirrity	Middle	30.99608 72.02659	197	Sadia UI Hussain	0310-7927289
190	GHS Mud Rajbana	High	30.92.23 71.97408	563	Kazim Ali Javaid	0308-7502061
191	GGPS Mian Jalal	Primary	30.86213 71.92359	100	Gulzar Naseem	0333-6767093
192	GGPS Mehmood Shah	Primary	30.87577 71.93109	163	Farzana Mukhtar	0345-3971014
193	GGPS Basti Sultan Wali	Primary	30.91272 71.9666	137	Abida Batool	0332-1674214
194	GGPS Mumtaz Abad	Primary	30.8706 71.92965	92	Nazia Khatoon	0332-6255705
195	GMPS Basti Hannani	Primary	30.85403 71.92641	128	Khalid Parveen	0301-7227207
196	GPS Islam Wala	Primary	30.98037 72.02512	267	Mumtaz Hussain	0300-7500912
197	GHS Neko Kara	High	30.97766 71.87135	752	Muhammad Yousaf	0306-7220497

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
198	GGPS Islam Wala	Primary	30.70823 71.78757	89	Khazina Mai	0302-7935892
199	GHSS Kalyar Wala	High	31.04804 71.96727	517	Shaukhat Ilyas	0333-6507117

ANNEX V:LIST OF INDUSTRIES WITH THEIR RISK LEVEL

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/Floods/Earthquake
1	Shakkar Ganj Sugar Mills LTD.	Sargodha Road Bhone, Jhang	X: 314634.18 Y:721550.06	Chemical	Abdul Hanan 0315-7430969	Medium	Flood,Fire

S #	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
2	Haq Bahoo Sugar Mills	18-Hazari Layyah Road	X: 31728.98 Y:72419.33	Chemical	---	Medium	Flood,Fire
3	Siraj Sugar Mills	18-Hazari Layyah Road	X: 31641.19 Y:72338.96	Chemical	7006440	Medium	Flood,Fire
4	Three Star Rice Mills	18-Hazari Layyah Road	X: 31741.36 Y:72438.68	Biological	Muhammad Ikram 0333-6733397	Medium	Flood,Fire
5	Saif Ur Rehman Cotton Factory	Bhakkar Road,DAL wala More	X: 311221.92 Y:72211.35	Biological	SaifUrehman 0300-6500980	Medium	Flood,Fire
6	Chela Rice Mills	Bhakkar Road Wasu Astana	X: 311053.15 Y:72451.99	Biological	Ch. Shamsud Din Manager 03027695938	Medium	Flood,Fire
7	Daal Mills	Dal More,	X: 311215.40 Y:72219.10	Biological	Ghulam Abbas	Medium	Flood,Fire

S #	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/Earthquake
		Bhakkar Road Jhang			0333673388 2		

Note: Biological Factors i.e. Greenhouse Effect, Chlorofluro carbons and Pollutant etc.

ANNEX VI:LIST OF NGO WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Contact Person Name	Contact Person Mobile

International)								
1	Al-Fazal Foundation,	Welfare	Local	Shah Jewna	Health & General Welfare	Ghulam Raza	0333-4302664	
2	Blood Brother Donor Association,	&Blood	Local	Jhang.	....do....	Sayd Shahbaz Ali	0333-6732855
3	Hope Foundation	Welfare	Local	Akrianwala	....do....	Ghulam Rasool	3453310778
4	Ismail Welfare Society		Local	Satellite town Jhang	....do....	ShamasIrshad	047-7620549
5	Patients Welfare Society		Local	DHQ Hospital, Jhang	....do....	Sh. Muhammad Nawaz Akram	0321-6509509
6	Patients Welfare Society		Local	THQ Hospital , Shorkot	....do....	Rana Muhammad Ishfaq	0333-6767611 0345-7600593
7	Rehman Welfare Society		Local	Basti Lohly Shah, Jhang	....do....	Abdur Rehman	0347-8734201
8	Umeed-e-Zandgi Welfare Foundation		Local	Shorkot Cantt	Health & Women Welfare	Dr. Shafiq Ahmad	0333-6754643	
9	Pehchan Foundation	Welfare	Local	Green Toba Jhang	Town Road	Health Umar DrazSajid Khalid Mehmood Sajid	0311-7795135	
10	Jhang Trust	Educational	Local	District Courts Jhang	Education	DC	047-9200080	

11	Anjuman Moashra, Nika Jhang.	Islah-e- Nika Dultana,	Local	Nika Jhang	Dultana,	General Welfare	Rana Muhammad Shahid	0335-6990054
12	Faiz Bukhat Society, Road,Jhang	Welfare Toba	Local	Toba Jhang	Road	Women Welfare	Muhammad Zeeshan	0322-7701214
13	Global Organization Town Jewana	Welfare Mazari Mandi Shah	Local	Mandi Jewana	shah	Women Welfare	Haji Ameer Muhammad Khan	0343-1862414
14	IdaraTaraqi-e-Khawateen,		Local	Civil Jhang	Line	Women Welfare	Mrs.Yasmin Akram	0321-6500777
15	Jhang Educational & Environmental (Jeet) Organization) Cadet School	Team (Development Garrison	Local	Jhang		Education and General Welfre	Syed Majid Zaman	0321-2755555
16	Mauj-e-Darya Organization	Welfare	Local	Darbar Johar, Jhang	Sheikh	General Welfare	Hafiz Nazakat Ullah Shah	0345-7612895
17	Prisoner Welfare Society		Local	District Jhang	Jail	Prisoner Welfare	Muhammad Zahid	0300-6500486
18	Tehreem Organization	Welfare	Local	satellite Jhang	Town	General Welfare	Farzana Perveen Balooch	0333-6752269
19	Amina Foundation Chandan Wala St. # 3 Jhang	Welfare Mohallah	Local	Chandan Wala muhallah Jhang		...do...	Muhammad Riaz	3425806118

ANNEX VII: CONTACT LIST OF STAKEHOLDERS/ DEPARTMENTS

Sr. No	Name	Department/ Division/ District	Designation	Telephone No		Mobile No
				Office	Residence	
1	Zahid Hussain	Faisalabad Division	Commissioner	041-9201717	041-9201701	0304-0920054
2	Shahid Abbas Joiya	DC Office, Jhang	Deputy Commissioner, Jhang	047-9200081	047-9200201	0304-0920080
3	Shayan ali Jawa	Revenue Department, Jhang	ADC (Revenue), Jhang		047-9200276	0300-4106566
4	Shayan ali Jawa	General Department, Jhang	ADC (G), Jhang	047-9200098		0300-4106566

5	Dilawar Khan	Revenue Department, Jhang	Assistant Commissioner , Jhang	047-9200433		0333-4910980
6	Fazal Abbas	Revenue Department, Jhang	Assistant Commissioner , Shorkot	047-5310171		0300-7998832
7	Niaz Ahmad	Revenue Department, Jhang	Assistant Commissioner , Ahmed Pur Sial	047-5340111		0334-7203292
8	Sajjad Mehmood	Revenue Department, Jhang	Assistant Commissioner , 18 Hazari	047-7645732-33		0303-4440707
9	Mohsin Paryar	Revenue Department, Jhang	Tehsildar, Jhang			0301-8462794
10	Rao. Sakeel	Revenue Department, Jhang	Tehsildar, Shorkot			0300-8737277
11	Rao. Sakeel	Revenue Department, Jhang	Tehsildar, Ahmed Pur Sial			0300-8737277
12	Abraheem Kharal	Revenue Department, Jhang	Tehsildar, 18 Hazari			0300-6766155
13	Aqsa Gahfoor	DRTA	Sec. DRTA	047-9200038		0306-6502044
14	Dr. Manzoor Hussain	Health Department, Jhang	CEO Health, Jhang	047-9200139		0304-0925314
15	Anwar Shamim	Health Department, Jhang	DSI	047-9200139		0333-5497380 0304-0925314
16	Dr Iftikhar Noor	Health Department, Jhang	DHO	047-9200122		0345-7590881
17	Dr. Asim Raza Mir	Health Department, Jhang	DDHO, Tehsil Jhang	047-9200121		0333-8888572
18	Dr. Mubashir Ali	Health Department, Jhang	DDHO, Tehsil Shorkot	0475-310978		0333-8315080
19	Dr. Mumtaz Nadeem	Health Department, Jhang	DDHO, Tehsil AP Sial	0475-340551		0300-6374490
20	Dr. Abid Hussain	Health Department, Jhang	DDHO, Tehsil 18-Hazari			0345-7619881
21	Dr. Altab Bhowana	Health Department, Jhang	MS, DHQ Hospital	047-9200120		0321-6502323

22	Dr. Ghulam Rasool	Health Department, Jhang	MS, THQ Shorkot	0475-310971 0475-311302		0300-7506497
23	Dr. Hafeez Ullah Khan Khalid	Health Department, Jhang	MS, THQ AP Sial			0300-6505109
24	Dr. Ijaz Hussain	Health Department, Jhang	MS, THQ 18-Hazari			0348-7459126
25	DHQ Jhang	Health Department, Jhang	EMERGENCY DHQ HOSPITAL	047-9200140		
26	Naseem Ahmad Zahid	Education Department, Jhang	CEO Education, Jhang	047-9200128		0331-8555868
27	Azhar Hussain Ghuman	Population Department	District Officer	047-7621911		0301-6717402
28	Mhammad Arif	Beauro of Statistics	Statistical Officer	047-9200194		
29	Muzamil Abid Raza	Planning Department, Jhang	Deputy Director (Planning)	047-9200277-76		0300-7943777 0301-7348243
30	Akhtar Hussain	Agriculture Department, Jhang	Deputy Director (Agriculture)	047-9200289		0300-6508172
31	Fiyyaz Ahmad	Forest Department, Jhang	Divisional Forest Officer, Jhang	047-9200207		0300-6600246
32	Mateen Asghar	IPW&M, Jhang	District Officer (IPW&M)	047-9200273		0302-7867001
33	Azhar Abbas Adil	Social Welfare Department, Jhang	Deputy Director (Social Welfare)	047-9200280-81		0321-6013716
34	Eng Ali Husnain	Rescue 1122	DEO Jhang	047-9200179		0321-8666993
35	Muhammad Ameen	Rescue 1122	Station Incharge	047-9200275-105		0314-3160323
36	M. Nawaz Sial	Environment Department, Jhang	Assistant Director (Environment)	047-9200376		0345-7606733
37	Muhammad Shoaib	Livestock Department, Jhang	Additional Director (Livestock)	047-7630952 047-7631152		0300-7966381
38	Assad Suleman	Civil Defence, Jhang	DO (Civil Defence)	047-9200399		0343-7993593
39	Imtiaz Ahmad	Local Government, Jhang	DDLG	047-9200129-30		0333-7507761
40	Sufyaan Asif Awan	Food Department	District Food Controller	047-9200237		0308-1056276
41	Kashif Fiyyaz	Public Health Department, Jhang	XEN Public Health Engineering	047-9200308		0345-7940638

42	Asad Shaheen	Highway Department, Jhang	XEN Highway	047-9200149		0313-6686366
43	Farid Anwar	M&R Department, Jhang	XEN M&R			0300-6951869
44	Nanak Latif	Building Department, Jhang	XEN Building	047-9200090 047-9200147		0342-4654785
45	Muhammad Nabeel Aslam	Irrigation Department, Jhang	XEN Irrigation	047-9200300		0333-6315294
46	Muhammad Saleem	Irrigation Department, Jhang	SDO Irrigation PA	047-9200300		0333-6886881
47	Mohsin Ul Hassan Toor	Timmu Head, Jhang	XEN Trimmu	0477-647200		0321-4268386
48	Muhammad Afzal	Timmu Head, Jhang	SDO Trimmu	0477-647200		0331-5017081
49	Mehr Ajmal Bharwana	Canal Sargodha Division, Jhang	XEN Canal Sargodha Division	048-9230409		0333-6752753
50	Mumtaz Wahla	Canal Division Sargodha, Jhang	Head Clerk	048-9230409		0301-2867364/0344-7458548
51	Rizwan Saleem	Multan Canal Division,	XEN	061-9200679		0312-7444344
52	Niaz Ahmad	Multan Canal Division,	Head Clerk	061-9200679		0300-9639853
53	Asif Qurashi	Municipal Corporation, Jhang	Chief Officer, Mcor Jhang	047-9200344-45		0333-6002880
54	Muhammd Bilal	Tehsil Council Jhang	Chief Officer, Tehsil Council Jhang	047-9200014 047-9200057		0346-8055905
55	Muhammad Tariq	Municipal Committee Shorkot, Jhang	Chief Officer MC Shorkot	0475-311301		0300-4870460
56	Anwar Baig	Tehsil Council Shorkot	Chief Officer, Tehsil Council Shorkot			0300-2143800 0334-6881695
57	Saleem Iqbal Shah	Municipal Committee Ahmed Pur Sial	Chief Officer MC Ahmed Pur Sial	0475-340020-26		0300-6327306
58	Muhammad Tariq	Tehsil Council AP Sial	Chief Officer, Tehsil Council AP Sial			0300-4870460
59	Irfan Mehdi	Municipal Committee 18 Hazari, Jhang	Chief Officer MC 18 Hazari			0300-8394441
60	Irfan Mehdi	Tehsil Council, 18 Hazari	Chief Officer, Tehsil Council 18-Hazari			0300-8394441
61	Mudassir Habib Jami	Red Crescent, Jhang	District Manager	0477-627193 9200107		0336-7100036
62	Atta-ur-Rehman Rana Iqbal	PRSP, Jhang	Superintendent			0300-6021051 0333-6317600

63	Muhammad Saqib	Computer Programmer	Computer Programmer	047-7620064		0335-7505356 0331-7768711
64	Mirza Muhamad Younis	Post Office	Senior Post Master Superitendent	047-9200070-75 047-9200286		047-9200070
65	Khalid Nazeer	FESCO	SE WAPDA PA Complaint Civil Line	047-9200220 047-7614190 047-9200423		0345-1502001
66	Bilal Iqbal	FESCO	XEN Construction	047-9200450		0345-1502008
67	Saleem Shah	FESCO	XEN WAPDA Jhang I	047-9200224		0345-1502004
68	Shiekh Mudassar Ali	FESCO	XEN WAPDA Jhang II	047-9200230		0345-1500397
69	Malik Mureed Abbas	FESCO	XEN Operation Sultan Bahoo Division	0475-310825		0345-1502015
70	Shafeeq Ghaloo	PTCL	Divisional Engineer Phones	0477-623899 0477-622599		0333-6736467
71	Sarfraz Virk	Police	D.P.O Jhang	047-9200444 047-9200103-104	047-9200445. Circuit House 047-9200062	0334-2640501
72	Farooq Ahamd	Police	SP Investigation	047-9200094		0333-6837975
73	Choudry Ashraf	Police	DSP (Special Branch)	047-9200325		0313-8775050
74	Mst Zaida Parveen	Police	DSP (Traffic)	047-9200311		0300-7200041
75	Saif Ullah Bhati	Police	DSP (City)	047-9200233		0300-6661111
76	Fazal Abbas	Police	DSP (Sadar)	047-9200312		0321-9667216
77	Abaidullah Kalyar	Police	DSP (Legal)	047-9200060		0343-7600206
78	Ahmad Sajad Cheema	Police	DSP (Shorkot)	0475-310898		0300-8609036
79	Tahir Maqsood	Police	DSP (A. P. Sial)	0475-340016		0300-7277836
80	PS Kotwali	Police		047-9200316		
81	PS City Jhang	Police		047-9200271		
82	PS Satellite Town	Police		047-9200058		
83	PS Sadar Jhang	Police		047-9200313		
84	PS 18-Hazari	Police		047-7645010		
85	PS Qadir Pur	Police		047-7640010		
86	PS Massan	Police		0477-000416		
87	PS Mochiwala	Police		047-7642100		
88	PS Shorkot City	Police		0475-310698		

89	PS Shorkot Cantt.	Police		0475-500898		
90	PS Ahmad Pur Sial	Police		475340010		
91	PS Garh Maharaja	Police		0475-320510		
92	Wireless Control	Police		047-9200066		
93	Police Line/Rescue 15 /Khadimat Markaz	Police		047-9200083 047-9200405		

ANNEX VIII (1): LIST OF VOLUNTEERS (RESCUE 1122)

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Muhammad Asif Hameed khan	33202-5618652-7	Moh Muhammdi Gojra Road Jhang	03001000750	A+ve	4-6 hours
2	Muhammad Sadiq	33202-9922512-7	Moh Mukhtarabad Gojra Road Jhang	03125204000	AB+ve	-do-
3	Saif Ullah	33202-7944740-5	House No#23 Basti mai Heer Jhang	03017058486	B+ve	-do-
4	Muhammad Adeel Qadir	33202-7198815-1	Mujahid Chowk Moh Bagh Wala	03116507931	AB-ve	-do-
5	Muhammad Parvaiz Akhtar	33202-442776-3	basti chaman pur moh bagh wala jhang	03156502420	B+ve	-do-
6	Muhammad ilyas	33202-3264843-9	Chak No 270 The & District Jhang	0340-3600270	AB+ve	-do-
7	Muhammad Hasnain Raza	33202-7329761-9	House No 487 Rana Colony	03467200678	B+ve	-do-
8	Muhammad Adnan Mazhar	33204-0424270-7	Purana Chiniot Road Basti Dewan wali jhang	0314-7857046	B+ve	-do-
9	Umair Nawaz	33202-6499872-1	Moh Muhammdi Gojra Road Jhang	03486540940	B+ve	-do-
10	Akhtar Abbas	33202-1851602-9	Chak No 267 Chundra Faisalabad Jhang	03418565650	B-Ve	-do-
11	Khalid Ur Rehman	33202-6077300-9	Chak No 215 Faisalabad Road	03424393207	O+ve	-do-
12	Javaid Iqbal	33202-4282235-1	P/o Bagh Korriyan Teh & District Jhang	03427801979	B+ve	-do-
13	Muhammad Bilawal Shareef	332027470976-5	Moh Kot sai sing	03442794614	A+ve	-do-

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
14	Azhar Hussain	33202-1438443-3	Moh Burji Wala Jhang	03337322784	B-ve	-do-
15	Umair Mazhar	33202-9075197-5	Chak No 267 Chundra Faisalabd Road Jhang	03452253907	AB-Ve	-do-
16	Muhammad Sher	33202-3225172-9	P/o Kari wala Teh & District Jhang	03425854650	B+ve	-do-
17	Mubshir Shahwar	33202-1325491-9	Al nor Colony Gojra Road	03437714955	AB+ve	-do-
18	Ali Akbar	33202-4324026-5	Moza Bagh Street Faqeer Muhammad wali	03099720143	B+ve	-do-
19	Amjid Ali	33202-9512063-5	Chak No 255	03427898197	B+ve	-do-
20	Arsalan Hussain	33202-7802902-5	Chak No 181 JB	03472870629	B+ve	-do-
21	Asif Hayat	33202-1596615-5	P/o Kari wala	03455468544	O+ve	-do-
22	Muhammd Sarfraz Anjum	33202-4384501-3	Basti Ghaza Abad Mandi Shah Jiwna	03477053108	B+Ve	-do-
23	Hafiz Ullah	33202-6285306-1	P/o Kari wala	03477564953	AB+ve	-do-
24	Muhammad Ali	33202-7530496-3	Moh Bagh wala Bulak Shah	03499470053	B+ve	-do-
25	Asad Hasnain Safdar	33202-8660636-1	Moh Islamabad Gojra Road Jhang	03064952506	AB+ve	-do-
26	Abdul Kareem	33202-6042859-3	Chak No 214 JB	03427941366	B+ve	-do-
27	Mehar Abbas	33202-8496007-3	Chak No 255	03461696061	B+ve	-do-
28	Muhammad Yosaf	33202-9357967-9	Moh Bigh Colony	03427956891	B+ve	-do-
29	Muhammad Zaka	33202-0697178-1	House No 836 Moh Bhabhrana	03137026873	A+ve	-do-

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
30	Shahzad Hussain	33202-6370004-7	Chah Mori wala Moh Dhup Sari	03118134040	B+ve	-do-
31	Hafiz Zeshan Nazir	33202-7741759-7	Taliyan wala Jhang	03457603341	B+ve	-do-
32	Asad Raza	33202-0245741-5	MouzaBaghar	0344-7731223	O+ve	-do-
33	Musrat Abbas	33202-1161980-3	Chak No 267 Kuli Faqeer Wali	03420742267	B+ve	-do-
34	Muhammad Ahsan	33202-038454-5	Chak No 267 P/O Mochi Wala	03405360078	B+ve	-do-
35	Muhammd ikram	33202-1886062-3	Chak 267	03481989593	B+ve	-do-
36	Adnan Nawaz	33202-4639394-3	Chak 267	03447915525	B+ve	-do-
37	Asad Ali	33202-3813030-1	Chak No 267 Chundra	03425528020	O+ve	-do-
38	Muhammad Zaheer	33202-4544012-5	Chak No 267 JB	03493365374	A+ve	-do-
39	M.RamzanAsad	33202-1350066-1	MouzaBaghar	0346-2205619	B+ve	-do-
40	Zahid abbas	33202-6234708-3	chak num 219 jb faisalbd Raod	03430810916	B+ve	-do-
41	Aoun Raza	33202-3502917-5	Basti kudlathi Moza Baagh	03470605800	AB+ve	-do-
42	Muhammad	33202-9578989-7	Moh Faizabad satellitton Moh Faizabad satellitton	03436060159	A+ve	-do-
43	Muhammad Sharif	33202-3634846-5	PeerKot	0344-7763707	O+ve	-do-
44	Riaz Hussain	33202-2442013-3	PeerKot	0346-7792430	B+Ve	-do-

S#	Volunteer Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
45	KhudaBukhsh	33202-1024999-3	PeerKot	0341-4848300	AB+Ve	-do-
46	Muhammad Waseem	33202-4686679-1	Moh jalalabad street no.3	03166502715	AB+ve	-do-
47	Muhmmad Aafaq	33202-5441771-9	Moh jalalabad street no.3	03477335683	A-ve	-do-
48	Hamza shamsher	33202-3127149-7	Moh Faizabad satelitton	03430901322	B-ve	-do-
49	Bilal Hassan	33202-7601991-7	Moh Salih shah Near Qabrstan	03427922352	B+Ve	-do-
50	Shahzad Akhtar	33203-9830085-1	Rustam sargna	03494147285	B+Ve	-do-
51	Zulqarnain Haider	33202-4221322-1	w block house no 9-4	0 3356201575	AB+ve	-do-
52	Fakhar Abas	33202-4662212-7	chak Noor shah basti Qureshyan wali	03403214964	B+ve	-do-
53	Nofil khan	33202-7851579-9	chak Noor shah near sabzi mandi jhang	0 3108382356	B+ve	-do-
54	Muhammad Riaz	33202-4185771-3	Baig clony gojra road jhang	03454382526	B+ve	-do-
55	imtyaz	33202-7370159-1	moh Gosya basti faizabad	03127088780	O+ve	-do-
56	Muhammad Umair Saleem	33202-7207864-9	Moh Budhy wala street gujran ali	03487443292	B+ve	-do-

ANNEX VIII (2): LIST OF VOLUNTEERS (CIVIL DEFENCE)

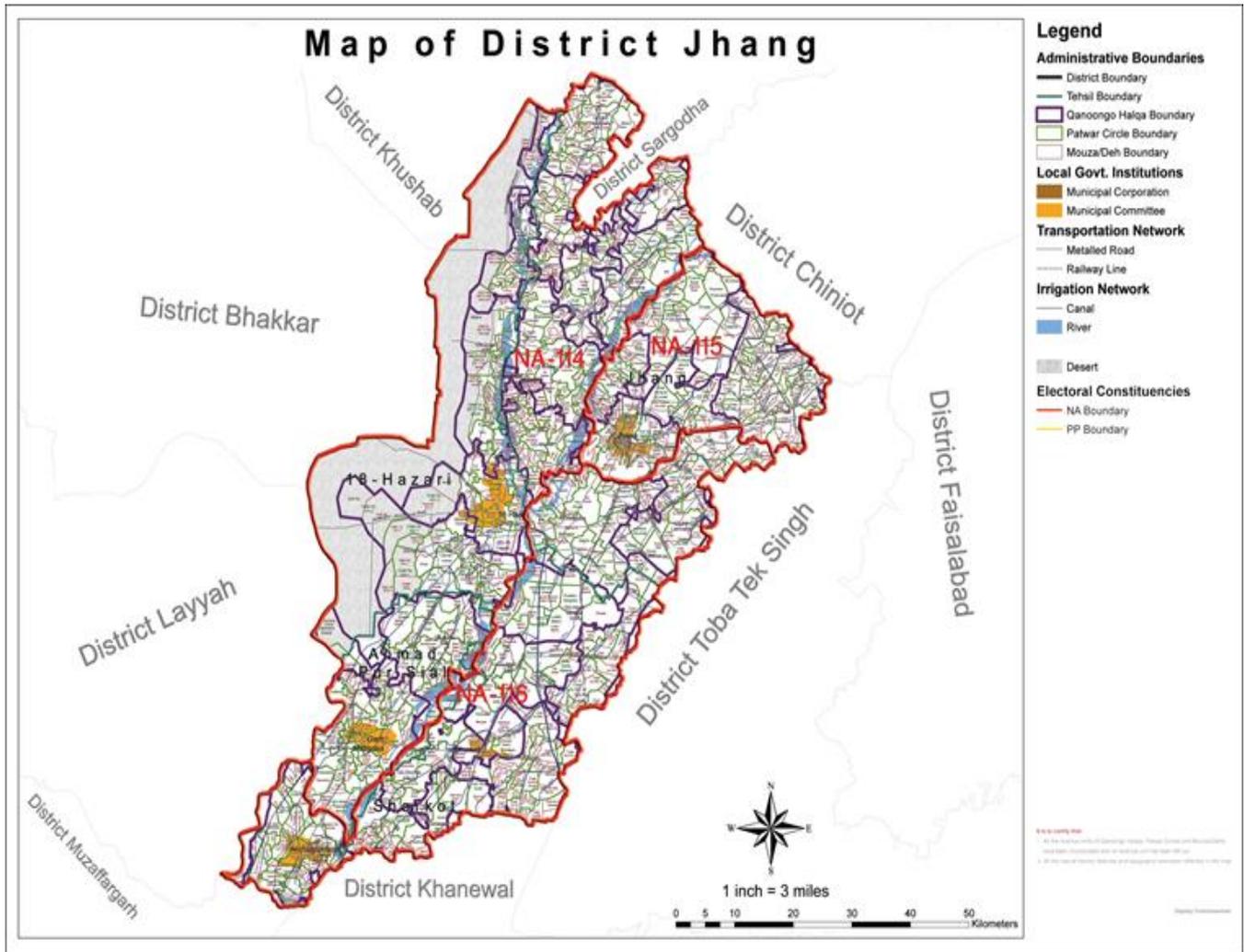
Sr. No.	Name of Volunteer	CNIC No.	Address	Contact No.	Blood Group	Time required
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						being on board
1.	Muhammad Riaz	33202-9192929-7	Mohallah Loolhy Shah, Tehsil & District Jhang.	0342-1733735	A+	45 mints
2.	Muhammad Arsalan	33202-6881964-1	-do-	0302-9259260	B-	-do-
3.	Muhammad Shahzad	33202-3633936-7	-do-	0340-1178822	A+	-do-
4.	Imam Bux	33202-7581049-7	-do-	0347-2855458	O+	-do-
5.	Umair Zafar	33202-3504200-7	-do-	0307-3787248	A+	-do-
6.	Ghulam Murtza	33202-4948587-3	-do-	0341-8692316	A+	-do-
7.	Azhar Abbas	33202-4947204-9	-do-	0342-1733735	A-	-do-
8.	Muhammad Ayoub	33202-2928198-7	-do-	0344-0219980	A+	-do-
9.	Shehbaz Abbas	33202-9957196-9	-do-	0340-7932717	B+	-do-
10.	Ali Raza	33202-9783932-1	Chak Chishtia Fsd. Road Jhang.	0343-7933263	A+	01 Hour
12.	Muhammad Yaqoub	33202-0609197-7	-do-	0348-1400680	A-	-do-
13.	Muhammad Iqbal	33202-8372665-9	-do-	0343-7643189	B-	-do-
14.	Shahid Manzoor	33202-4151771-1	-do-	0348-1400650	A-	-do-
15.	Shahid	33202-7972924-9	-do-	0343-3082362	A+	-do-
16.	Muhammad Awais	33202-1975900-9	-do-	0344-3154704	O+	-do-
17.	Zahoor Ahmed	33202-4224655-9	-do-	0302-7694379	B+	-do-
18.	Gulam Shabbir	33202-9752661-3	Chak Chishtia Fsd. Road Jhang.	0341-8671370	B+	01 Hour
19.	Ghulam Shabeer	33202-3362076-6	Mohallah Harmal Pur, Jhang.	0343-0810292	A-	45 mints
20.	Saif-ur-Rehman	33202-6549123-9	Chah Mochiwala Chiniot Road Jhang.	0343-7922206	B+	01 Hour
21.	Muhammad Imran	33202-7808905-7	Mohallah Hasnana Jhang Sadar	0303-7419535	A+	45 mints
22.	Muhammad Shehzad	33202-5335721-3	-do-	0311-7204112	B-	-do-
23.	Muhammad Chand	33202-2848407-1	-do-	0313-7203695	B+	-do-
24.	Muhammad Shafqat	33202-0691940-5	-do-	0312-6411778	O+	-do-
25.	Muhammad Azam	33202-6491436-1	-do-	0314-4929380	A-	-do-
26.	Muhammad Ghulam Fareed	33202-1602194-3	-do-	0313-7346175	AB+	-do-
27.	Gulzar Ahmed	33202-1341470-1	-do-	0305-7662279	B-	-do-
28.	Muhammad Ramzan	33202-1409317-7	-do-	0313-1717437	A-	-do-
29.	Muhammad Shafique	33202-9444723-1	-do-	0315-7391740	O+	-do-

30.	Muhammad Arshad	33202-5891557-1	-do-	0311-7379694	A-	-do-
32.	Gulzar	33202-1177749-3	Wapda Colony Chiniot Road Jhang.	0346-7261197	B+	-do-
33.	Muhammad Ilyas	33202-6104899-5	-do-	0346-7261198	O+	-do-
34.	Shehzad Mumtaz	33202-6788994-5	Ward No. 08 Mohallah Purani Eid Gah Jhang City.	0346-2648788	B+	-do-
35.	Gulam Rasool	33202-5972651-5	Wapda Colony Chiniot Road Jhang.	0347-7861847	AB+	-do-
36.	Adnan Khizar	33202-3241057-9	Mouza Khanoanan, Nikka Doltana, Tehsil & District Jhang.	0314-3919669		-do-
37.	Hamid Lateef	33202-1380631-9	House No. 70, Amir Colony, Jhang	0300-6507822	B-	-do-
38.	Muhammad Imran	33202-6429560-1	Katchi Abadi, Basti Dewan Wali, Jhang City.	0341-8215380	A+ve	-do-
39.	Pehlwan Khan	33202-1386075-7	Chiniot Road, Khayaban City, Jhang	0341-8782712	B+	-do-
40.	Saleem Akhter	33202-1283830-7	Gojra Road, Jhang	0342-4584181	B+	-do-
41.	Muhammad Tauqeer	33202-9413306-7	Chak No. 254 JB, Gojra Road, Jhang	0342-7529519	B+	-do-
42.	Shajar Abbas	33202-8127208-9	Amir Town, Sargodha Road, Jhang	0347-5256669	O negative	-do-
43.	Shahid Iqbal	33202-8633362-9	Mohallah Loolhy Shah, Jhang	0315-7095822		-do-
44.	Waqar Muhammad	33202-7347909-5	Chak No.263 p/o 262 kot Bhojuana Jhang.	0341-7267577	B-ve	-do-
45.	Muhammad Touseef	33202-9593008-1	Chak No.254 p/o chak No.255 Jhang	0342-5310726	A+ve	-do-
46.	Mohsin Raza	33203-0450843-5	Basti Farooq abad, Haveli Bahadur Shah Tehsil Shorkot Jhang.	0342-5709382	B+ve	-do-
47.	Nasir Hussain	33202-1425954-5	Gali Imam Bargh wali Sargodha road Jhang.	0313-7506991	B+ve	-do-

NA-114	Sahibzada Muhammad Mehboob Sultan	MNA	0300- 8013374	PP-124	M.Taimoor Khan	MPA	0345- 743999 9
NA-115	Ghulam Bibi Bharwana	MNA	0302- 7220057	PP-125	Faisal Hayat Jaboana	MPA	0300- 650940 5
NA-116	Sahibzada Ameer Sultan	MNA	0333- 3850061	PP-126	Muhammad Muavia Azam	MPA	0300- 650474 6
			0300- 6662777	PP-127	Mehar Muhammad Aslam	MPA	0345- 750111 1
			0475- 340786 0300- 8450540	PP-128	Ghazanfar Abbas Shah	MPA	0300- 863335 2
				PP-129	Mian Muhammad Asif Kathia	MPA	0300- 650545 3
				PP-130	Shahbaz Ahmad	MPA	0303- 377777 7

ANNEX IX (2): POLITICAL CONSTITUENCIES MAP (NA)



Sr#	Designation	District/Tehsil Name	Name	Contact Number
1	Chief officer	District council	Malik Muhammad Azam	0301-6748122
2	Chief officer	Unit Jhang	Muhammad Akram Bharwana	0345-7501111
3	Chief officer	Unit Shorkot	Tariq Javed	0300-4870460
4	Chief officer	Unit 18 Hazari	Irfan Mehdi	0300-6505959
5	Chief officer	Unit AP Sial	Tahir Farooq	0333-6767696

ANNEX X: POLITICAL CONSTITUENCIES MAP (UCS)

District: _____

Date: _____

S#	Name	Father Name	CNIC	Address	Revenue Estate	Union Council	Tehsil	Partially/Complete	Katcha/Pakka	%age of Damage	Contact No.	GPS Coordinates	Picture Taken
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P2: Deceased Person Reporting Performa

District: _____

Date: _____

S#	Name of deceased	Father's name	Address	Domicile	Gender	Age	CNIC	Cause of death	Date of death	Place of death	Marital status	Next of kins (Name)	Verifying Officer	Compensation Paid
----	------------------	---------------	---------	----------	--------	-----	------	----------------	---------------	----------------	----------------	---------------------	-------------------	-------------------

P3: Injurd Person Reposrting Performa

District: _____

Date: _____

S#
Name of injured
Father's name
Address
Domicile
Gender
Age
CNIC
Cause of injury
Date of injury
Injury Type (Permanent or 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	Vaccinated/Unvaccinated	Witness 1 name and	Witness 2 Name and
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P5: Crop Damages

District: _____

Date: _____

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

District: _____

Date: _____

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

In case of mega disaster that overwhelms the resources of the Government in certain area, the equipment of private owners are engaged to continue with evacuation, rescue or relief services. The

following template is filled to maintain a record of boat owners that might be engaged at the time of a disaster.

District: _____

Date:

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

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
----	-------------	----------	------	--------	-----	-------------------	-----------------	------	---------	----------

P9:NGOs registration performa

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

District: _____

Date:

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

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

District: _____ Focal Person: _____ Date:

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

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

Land

3.0-4.5 square meter per person

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

ANNEX XIII: FLOOD BUNDS

INFORMATION REGARDING FLOOD BUND CATEGORY A			
SR:#	NAME OF DIVISION	NAME OF EMBANKMENT / BUND	LENGTH (ft)
SARGODHA ZONE			
1	Rasul Head works Division	Right Guide Bund	2,121
2	-do-	Left Guide Bund	3,360
3	-do-	Right Guide Spur	2,762
4	-do-	Left Marginal Bund	17,170
	Total in feet.		25,413
	Total in Miles.		4.81
PMO BARRAGES			
1	Kalabagh H/Works Division	Jinnah Barrage	25,080
	Total in feet.		25,080
	Total in Miles.		4.75
FAISALABAD DIVISION			
1	Khanki Division	Left Marginal Bund	21,000
2	-do-	Right Marginal Bund	29,000
3	Jhang Division	Jhang Flood Protection Bund	43,875
4	Qadirabad Barrage Division	Left Marginal Bund	20,000
5	-do-	Right Marginal Bund	20,000
	Total in feet.		133,875
	Total in Miles.		25.36
BAHAWALPUR ZONE			
1	Punjnad Head works Division	Right Marginal Bund	15,000
2	-do-	Left Marginal Bund	15,000
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	10,000
	Total in feet.		55,000
	Total in Miles.		10.42
MULTAN ZONE.			
1	Trimmu Division	Right Marginal Bund	20,000
2	-do-	Left Marginal Bund	20,000

3	Sulemanki Division	Left Marginal Bund	10,000
4	-do-	Right Marginal Bund	10,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	10,000
6	-do-	Akbar Flood Bund	10,000
	Total in feet.		80,000
	Total in Miles.		15.15
D.G.KHAN ZONE			
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khangarh Flood Bund	5,000
7	-do-	Khanwah Flood Bund	5,000
8	Jampur Construction Division	Jampur Flood Bund	5,000
9	-do-	Rojhan Flood Bund	20,000
	Total in feet.		1,35,000
	Total in miles		25.57
LBDC(IP)			
1	Balloki Head works Division	Left Marginal Bund	15,000
2	do	Right Marginal Bund	15,000
	Total in Feet		30,000
	Total in miles		6
LAHORE ZONE			
1	FLOOD Bund Division Narowal	Jassar Highway Bund	10,000
2	do	Rayya flood Bund	5,000
3	Pasrur Link Division Sialkot	City Flood Protection Bund along Aik Nullah	7,340
4	do	Hajoipur Flood Protection Bund along Aik Nullah	86,00
5	do	Left Flood Protection Bund over deg Nullah from defence	10,000

		embankment to Zafarwala Kingra road	
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.				
			Low	Med:	High	Very High	Exp. High
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	10	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
CHENAB	Marala	11	1	1.5	2	4	6
	Khanki	8	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	6.45	1.5	2	3	4.5	6
	Punjnad	7	1.5	2	3	4.5	6
RAVI	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
SUTLEJ	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
	Islam	3	0.5	0.8	1.2	1.75	2.25
	Mailsi Syphon	4	0.75	1.1	1.5	2.25	3

ANNEX XV: LIST OF BASIC TERMS

Acceptable risk

The level of loss a society or community considers it can live with and for which it does not need to invest in mitigation.

Biological hazard

Biological vectors, micro-organisms, toxins and bioactive substances, which may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation.

Capacity

A combination of all the strengths and resources available within a community, society or organization that can reduce the level of risk, or the effects of a disaster.

Capacity may include physical, institutional, social or economic means as well as skilled personnel or collective attributes such as leadership and management. Capacity may also be described as capability.

Capacity building

Efforts aimed to develop human skills or societal infrastructure within a community or organization needed to reduce the level of risk. In extended understanding, capacity building also includes development of institutional, financial, political and other resources, at different levels of the society.

Climate change

The climate of a place or region is changed if over an extended period (typically decades or longer) there is a statistically significant change in measurements of either the mean temperature or variability of the climate for that region.

Coping capacity

The means by which people or organizations use available resources and abilities to face a disaster. In general, this involves managing resources, both in normal times as well as during crises or adverse conditions.

Disaster

A serious disruption of the functioning of a community or society causing widespread human, material, economic or environmental losses which exceed the ability of the affected community or society to cope using its own resources. It results from the combination of hazards, conditions of vulnerability and insufficient capacity to reduce the potential negative consequences of risk.

Disaster risk management (DRM)

The comprehensive approach to reduce the adverse impacts of a disaster. DRM encompasses all actions taken before, during, and after the disasters. It includes activities on mitigation, preparedness, emergency response, recovery, rehabilitation, and reconstruction.

Disaster risk reduction/disaster reduction

The measures aimed to minimize vulnerabilities and disaster risks throughout a society, to avoid (prevention) or to limit (mitigation and preparedness) the adverse impacts of hazards, within the broad context of sustainable development.

Early warning

The provision of timely and effective information, through identified institutions, to communities and individuals so that they could take action to reduce their risks and prepare for effective response.

Emergency management

The management and deployment of resources for dealing with all aspects of emergencies, in particularly preparedness, response and rehabilitation.

Forecast

Estimate of the occurrence of a future event (UNESCO, WMO). This term is used with different meanings in different disciplines.

Geological hazard

Natural earth processes that may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation. For example earthquakes, tsunamis, volcanic activity and emissions, landslides, rockslides, rock falls or avalanches, surface collapses, expansive soils and debris or mud flows.