

DISTRICT DISASTER MANAGEMENT PLAN 2022



Division: Lahore

District: Nankana Sahib



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Approved by: Deputy Commissioner/ Chairperson DDMA, Nankana Sahib

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EXECUTIVE SUMMARY

- District Disaster Management Authorities are the first line of actions as well as response and implementing the government policies and plans. Hence, 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 of the Deputy Commissioner, Chairperson District Disaster Management Authority. So, the District Task Force will be fully supported by the allied departments such as Punjab Emergency Service Department, Revenue Department, Police, Health, Agriculture, Livestock, Civil Defense and MC's.
- All Departments of district administration have prepared a detailed contingency plan to face any disaster or hazard specially during floods.
- The District Administration will divide the area as per district division with the Assistant Commissioner as incharge of his Tehsil. All disaster related activities in a said Tehsil will be coordinated through the respective Assistant Commissioner.
- On receipt of a flood warning, immediate warning will be conveyed to all the concerned Officers by the District Emergency Operation Center (DEOC), prompt action will be taken in each sector/ sub sector for evacuation of the population from risk prone areas to the safer places or to flood relief camps. The Assistant Commissioners will ensure that announcements are made through loudspeakers of the Masajids utilizing the services of the Revenue Department. Each Patwari will inform the Numbardar, Headmaster of the School, Imam Masjid and Councilors to make announcements etc. The Additional Deputy Commissioner (General) will coordinate and supervise the disaster control and relief activities at the place of disaster.
- The Punjab Emergency Service Department (Rescue 1122), Nankana Sahib has responded the **124219 Emergencies** in the last 12 years by maintaining the average response time of **6.7 Minutes**. Furthermore, **143543 victims** of the emergencies have been treated and hospitalized.
- In Nankana Sahib, flood emergency is likely to be caused due to heavy rain season and flood in river Ravi and chances of any disaster at any time cannot be ruled out. Strenuous efforts shall be made to mobilize all affected human and material resources in order to prevent the any type of calamity causing devastation in the district. Furthermore, the Punjab Emergency Service Department (Rescue 1122), Nankana Sahib will conduct 02 flood mock exercises at the strategic locations.

Aim and Objectives

The plan is aimed to manage emergencies by putting in place the requisite mitigation measures and a well-coordinated and integrated response at district level.

The main objectives of the plan include:

- To develop a plan of actions for the District Disaster Management Authority and other multi stakeholders to set priorities and provide directions for disaster management at Nankana Sahib.
- To define the roles & responsibilities of various stakeholders in disaster management in all the phases pre, during and after disaster.
- To raise awareness of stakeholders about disaster risks and the requirements for disaster management.
- To introduce coordination mechanism for immediate response and rehabilitation at district level.
- To enhance the effectiveness and timeliness of emergency response through the clarification of goals, strategies, roles and responsibilities.
- To strengthen response coordination between government departments and humanitarian organizations (UN agencies, I/NGOs).

DISTRICT PROFILE

Socio-Economic Indicators (Average)

S.No.	Particulars	Numbers
1.	Population	1356374
2.	No. of Tehsils	03
3.	No. of UCs	65
4.	Population Density (people per km ²)	460
5.	Pop Growth Rate	2.35
6.	Literacy Rate	63.71%
7.	Annual Crime	7267

Population

Total	Male (above 18)	Female (above 18)	Vulnerable People (PLWs, disabled, aged)
1356374	691944	664359	5200 (Approax)

Source/Note: According to Census 2017.

Area (in acres)

The total area of the district is 2,960 km², of which 457639 Acres is under cultivation. The district comprises of 478 Mauzas and 3 tehsils and 05 major towns

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
2,960 km ²	457639	457117	522

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
63.71%	58.53%	51.39%	78.58%	66.37%	68.55%	58.88%

Source/Note: As Per Information Provided by CEO District Education Authority.

Government Schools

Government Schools			
		Schools	Enrollment
Total /Overall		784	181373
Boys	Primary	324	56951
	Middle	54	22731
	High	58	12854
Girls	Primary	222	55884
	Middle	68	20911
	High	58	12042
Co-Education	Primary	0	0
	Middle	0	0

Private Schools

Private Schools			
		Schools	Enrollment
Total /Overall		413	125651
Boys	Primary	0	0
	Middle	143	50776
	High	71	14760
Girls	Primary	0	0
	Middle	100	40350
	High	87	12530
Co-Education	Primary	12	7235
	Middle	0	0

Source/Note: As Per Information Provided by CEO District Education Authority.

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	33	01	-	08	01	43
No of Students	15494	500	-	1200	111	17305

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	76	04	0	56	136
Annual OPDs	1140248	893461	0	0	3033709
No of beds	258	394	0	250	808
Doctors Available (General Cadre & Specialists)	91	243	0	58	392
Paramedical staff	434	219	0	76	729
Ambulances available	0	0	0	0	0
Mobile Medical Units					0

Source/Note: As Per Information Provided by CEO District Health Authority.

Livestock: Small Animals (goats, sheep etc.): 8900 Big Animals (cows, buffalos, camel etc.) 27796

ANTICIPATED / EXPECTED LIVESTOCK POPULATION TO BE AFFECTED IN CASE OF DISASTER / FLOOD EMERGENCY

Large	Small	Camel	Horse	Asses	Mule	Total	Rural Poultry
27796	8900	-	10	-	96	36802	8152

Total Large Animal Census (Cattle/ Buffalo) of District Nankana Sahib is 27796, while total small animals (Sheep/ Goat) are 8900. These animals are being provided prophylactic vaccination against Hemorrhagic Septicemia, Foot & Mouth disease, Black Quarter, Enterotoxaemia, Contagious Caprine Pleuropneumonia and Peste des Petits Ruminants disease. This vaccination campaign is carried out annually and biannually in 100% population and this service is provided completely free of cost. Other than that, Livestock & Dairy Development department is carrying out extension activities in District Nankana Sahib. Livestock Department has established union council wise 58 Civil Veterinary Hospital/ Dispensaries all-round the district.

Poultry Population

As per Punjab Development Statistics, 1996 there are 32 broiler, 10 layer and 03 rural poultry farms in the district having rearing capacity of 20,48,500 birds.

District Nankana Sahib has total 32 Broiler farms, 10 Layer farms and 07 Breeder and 03 rural sheds.

Disaster History - Floods (since 1970)

YEAR	DISCHARGE		BREACHED REACHES
1950	Through Barrage <u>Through Breaches</u> <i>Total</i>	2,25540 Cs <u>50,000 Cs</u> <i>275540 Cs</i>	7 No Breaches in Madhudas Bund
1954	Through Barrage	1,75,000Cs	
1955	Through Barrage <u>Through Breaches</u> <i>Total</i>	1,44,360 Cs <u>60,000 Cs</u> 2,04,360 Cs	Breach occurred at junction of RMB and Abandoned UCC ; and in Madhudas Bund.
1973	Through Barrage Through Breaches Through Madhudas Bund <i>Total</i>	1,83,000 Cs 40,000 Cs <u>75,000 Cs</u> 2,98,000 Cs	7 No Breaches along LMB and 10 No Breaches in Madhudas Bund.
1975	Through Barrage	1,80,205 Cs	9 No Braches occurred in Madhudas Bund
1978	Through Barrage Through LBDC <u>Through B.S.Link</u> <i>Total</i>	2,34,474 Cs 2000 Cs <u>19,500 CS</u> 2,55,974	7 No Breaches occurred in Madhudas Bund
1988	Through Barrage <u>Through Breaches</u> <i>Total</i>	2,40,845 CS <u>1,40,000 Cs</u> 3,80,845	12 No Breaches occurred in Reach RD 0-24500/RMB

Disaster History – Other disasters (since 1970)

Nil	Nil	Nil	Nil	Nil	Nil
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General Information

Particulars	Detail																																																																																																								
Neighboring districts and their vulnerabilities	Kasur –Sheikhupura-Faisalabad, Okara, Hafizabad, Lahore																																																																																																								
Topographical Features	The district is generally plain. There is no hilly area in the district. There is some marshy area along the river Ravi. Nature of land is sandy and clay-loam. River Ravi passes through Nankana Sahib district. The entire district is irrigated through canals and tube wells. The sub-soil water is sweet and exists in abundance.																																																																																																								
Weather/Climate pattern	<table border="1"> <thead> <tr> <th></th> <th>January</th> <th>February</th> <th>March</th> <th>April</th> <th>May</th> <th>June</th> <th>July</th> <th>August</th> <th>September</th> <th>October</th> <th>November</th> <th>December</th> </tr> </thead> <tbody> <tr> <td>Avg. Temperature (°C)</td> <td>12.1</td> <td>15.2</td> <td>20.3</td> <td>26.3</td> <td>31.2</td> <td>34</td> <td>32</td> <td>31.1</td> <td>29.9</td> <td>25.6</td> <td>19</td> <td>13.7</td> </tr> <tr> <td>Min. Temperature (°C)</td> <td>4.9</td> <td>7.9</td> <td>13.1</td> <td>18.5</td> <td>23.3</td> <td>27.3</td> <td>27.2</td> <td>26.6</td> <td>24.2</td> <td>17.7</td> <td>10.5</td> <td>5.8</td> </tr> <tr> <td>Max. Temperature (°C)</td> <td>19.4</td> <td>22.5</td> <td>27.6</td> <td>34.1</td> <td>39.1</td> <td>40.8</td> <td>36.9</td> <td>35.7</td> <td>35.6</td> <td>33.5</td> <td>27.5</td> <td>21.7</td> </tr> <tr> <td>Avg. Temperature (°F)</td> <td>53.8</td> <td>59.4</td> <td>68.5</td> <td>79.3</td> <td>88.2</td> <td>93.2</td> <td>89.6</td> <td>88.0</td> <td>85.8</td> <td>78.1</td> <td>66.2</td> <td>56.7</td> </tr> <tr> <td>Min. Temperature (°F)</td> <td>40.8</td> <td>46.2</td> <td>55.6</td> <td>65.3</td> <td>73.9</td> <td>81.1</td> <td>81.0</td> <td>79.9</td> <td>75.6</td> <td>63.9</td> <td>50.9</td> <td>42.4</td> </tr> <tr> <td>Max. Temperature (°F)</td> <td>66.9</td> <td>72.5</td> <td>81.7</td> <td>93.4</td> <td>102.4</td> <td>105.4</td> <td>98.4</td> <td>96.3</td> <td>96.1</td> <td>92.3</td> <td>81.5</td> <td>71.1</td> </tr> <tr> <td>Precipitation / Rainfall (mm)</td> <td>15</td> <td>18</td> <td>17</td> <td>13</td> <td>14</td> <td>29</td> <td>96</td> <td>102</td> <td>46</td> <td>6</td> <td>3</td> <td>8</td> </tr> </tbody> </table>		January	February	March	April	May	June	July	August	September	October	November	December	Avg. Temperature (°C)	12.1	15.2	20.3	26.3	31.2	34	32	31.1	29.9	25.6	19	13.7	Min. Temperature (°C)	4.9	7.9	13.1	18.5	23.3	27.3	27.2	26.6	24.2	17.7	10.5	5.8	Max. Temperature (°C)	19.4	22.5	27.6	34.1	39.1	40.8	36.9	35.7	35.6	33.5	27.5	21.7	Avg. Temperature (°F)	53.8	59.4	68.5	79.3	88.2	93.2	89.6	88.0	85.8	78.1	66.2	56.7	Min. Temperature (°F)	40.8	46.2	55.6	65.3	73.9	81.1	81.0	79.9	75.6	63.9	50.9	42.4	Max. Temperature (°F)	66.9	72.5	81.7	93.4	102.4	105.4	98.4	96.3	96.1	92.3	81.5	71.1	Precipitation / Rainfall (mm)	15	18	17	13	14	29	96	102	46	6	3	8
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Major Rivers	River Ravi																																																																																																								
Major Nullahs / Streams	Deg Nulla & Same Nulla																																																																																																								
Motorway/Highway	Motorway MP-3 (No Vulnerable Points)																																																																																																								
Railways	Nil																																																																																																								
Geological features	Nil																																																																																																								

Dams (including small dams)

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

Major Embankments/Bunds

Name of Embankment	Length (km)	Starting Point (Revenue Estate /Tehsil Name)	Ending Point (Revenue Estate /Tehsil Name)	Name of Critical/ vulnerable Points	GPS Location of Critical/ Vulnerable Points	Remarks
Madho Daas	16 KM	Chowk Gandho Wali, Misra Pur	Hafta Madar	Nil	Nil	There is no Vulnerable Point on this Bund
Right Marginal Bund Balloki Headworks	08 Km	Balloki Head Works	Haft Madar Tehsil Nankana Sahib	Breaching Section No. 02	X: 73.262 Y: 31.220	-
Left Marginal Bund Balloki Headworks	8.65 KM	Balloki Head Works	Gagga Tehsil Pattoki	RD-12000-13000	X: 73.262 Y: 31.220	-

Breaching Section

Name of Bund/ Embankment	Name of Breaching	Location with GPS Coordinates	Likely Affected Population			Likely Affected	Remarks
			Male	Female	Children		

	Section					Revenue Estate	
Madho Daas RD 48/49	Breaching Section No 01	N/A	-	-	-	-	
Right marginal Bund RD 11/12	Breaching Section No 02	X: 73.262 Y: 31.220	1027			Maliwal	
			3678			Haft Madar	
			1829			Wazir Pur	
			1207			Khakh	
			1518			Dhuddian	
			927			Shoukat Abad	
			1539			Qilla Noor Pur	
			2327			Jatri	
			3056			Kot Tahir	
			4540			Chained Pur	

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
Grid Station Nankana City	132 KV	X: 73.718227 Y: 31.445415	Grid Station Mohlan near Chandar Kot	132 KV	X: 73.667063 Y: 31.526087
Grid Station Shahkot	132 KV	X: 73.489606 Y: 31.572797	Grid Station Bara Ghar, Bucheki	132 KV	X: 73.717659 Y: 31.308235
Grid Station Sangla Hill	132 KV	X: 73.383312 Y: 31.704119	Grid Station Syedwala	132 KV	X: 73.478006 Y: 31.188396
Grid Station Warburton	132 KV	X: 73.825895 Y: 31.548071	Grid Station Malik Pur	132 KV	X: 73.884674 Y: 31.368854

Airport / Landing Strips

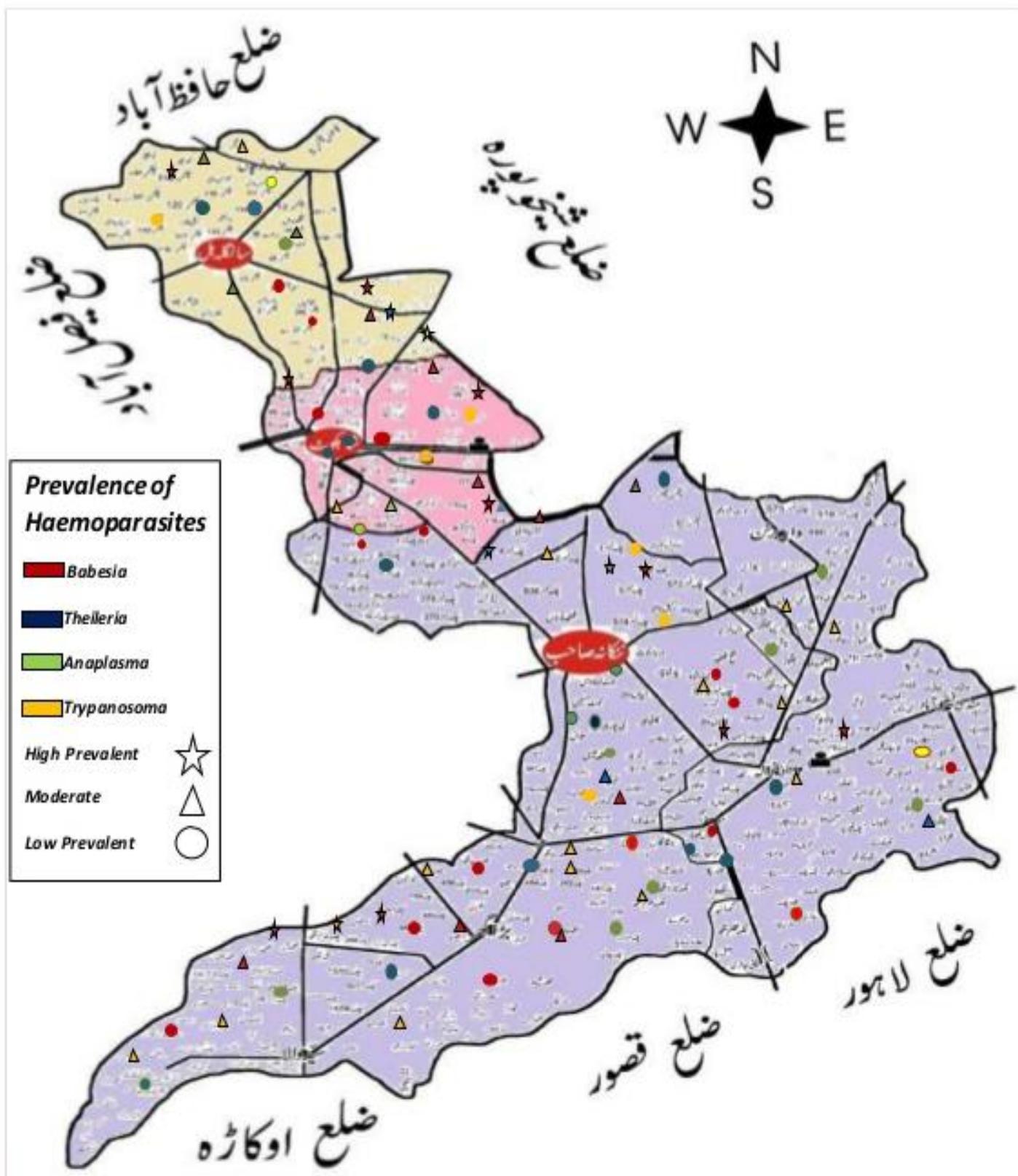
Type	Area Name	GPS Coordinates	Type	Area Name	GPS Coordinates
Nil	Nil	Nil	Nil	Nil	Nil

Govt. storage facilities / warehouses in the district

Facility Type	Capacity (M.T)	Location with GPS Coordinates	Facility Type	Capacity	Location with GPS Coordinates
Wheat Storage Godown (Nankana)	27360	X: 73.6927799 Y: 31.447013	Wheat Storage Godown (Panwan)	10944	X: 735917337 Y: 31.5777101
Wheat Storage Godown (Warburton)	5900	X: 73.8231375 Y: 31.5399982	Wheat Storage Godown (Sangla Hill)	5080	X: 73.3604734 Y: 31.7105513
Wheat Storage Godown (Shahkot)	12950	X: 73.4704399 Y: 31.5763549			

Source: As per information provided by the District Food Controller

DISTRICT BASELINE/REFERENCE MAP



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

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

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

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

District Plan:

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

Additional Powers of District Authority:

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

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

Revenue Department (Functions and Responsibilities)

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

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

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

Checklist for Revenue Department:

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

Metropolitan / Municipal Corporations

Municipal / Town Committees

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

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

District Disaster Management Authority (DDMA)

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

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

- District Administrations must establish a Disaster / Flood control room at the DC's office, the numbers of which will be circulated to all concerned. The Disaster / Flood Control Room has to maintain updated information regarding the threat of disaster and statistics post disaster. The center will maintain a regular communication with the Flood Forecasting Division or the dam authorities up stream in case of a flood.
- The District Administration would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The District Administrations will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
- Executive District Officer (Health) will ensure the availability of adequate medicines for treatment of common issues, particularly for snake and dog bite cases and general vaccines at each relief camp.
- 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 paramedic staff.

Pre-disaster Check list for DDMA

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

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

Disaster Emergency Control Room (functions and responsibilities)

District Flood Control Room for flood 2022 will be functional from 15th June, 2022 at District Resource Center, in the office of the Deputy Commissioner, Nankana Sahib
Hence, 02 telephone Numbers 056-9201156-57 have been dedicated for this purpose and presence of representative of all concerned departments has been ensured which will perform duty round the clock during Flood Season 2022.

Checklist for Control Room:

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

Checklist for Relief Camp Incharge:

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

- Keeping record of donations coming directly to Centre and report the same to Tehsil and District Incharge.
- Centre Incharge shall ensure vaccination of animals and humans against Communicable diseases
- List of missing persons must be displayed at all Relief Camps

Role of Health Department

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

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

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

- To provide first aid to the injured people and arrange evacuation of patients for further assistance.
- Medical camps and mobile health teams should be arranged for prevention and control of communicable diseases, immunization and provision of essential drugs.
- Health department would make a roster of all medical officers and paramedics that would be deployed to these camps and teams.
- Drugs and other medical equipment should be available at all these camps and with mobile teams. The medicine should be for relevant flood related issues, **particularly Anti-snake venom, Anti-rabies.**
- The shelters or relief camps established by the District Administration should have medical centers with ambulances and special facilities for women and children.
- An emergency control room will be established in the office of Directorate General Health Services and a representative of this emergency control room would be designated to PDMA's control room.
- A list of essential medicines would be prepared by the Health department and it would ensure that medicines and other resources are present in sufficient stocks in hospitals in disaster hit areas.
- Medical colleges may be involved to create Emergency Response teams
- Health department would also coordinate with international organizations such as WHO and UNICEF.
- Extensive disease surveillances in the disaster hit areas should be carried out warnings if needed be issued through the Disease Early Warning System.
- Medical teams and paramedic staff should be mobilized and deployed for rapid assessment and quick response in the affected areas.
- A contingency plan will be prepared and submitted regarding preparedness for any disaster or calamity.
- The National Disaster Management Authority has designated WHO as the key organization that will fill the gaps in the supply of medicines, rapid diagnostic kits, and vaccinations etc.
- The department would employ female health workers in emergency areas specially, for spreading awareness regarding health risks in a disaster and for any vaccination or immunization programme that may be needed during any emergency.
- A Health and Nutrition Cluster for overall management and oversight of Health department's disaster response would be formed at the Directorate General Health office.
- In case the medicine stocks or even the infrastructure is damaged due to floods, the department would draw up a plan for early recovery of health infrastructure and service delivery.

Volunteer Network

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

Volunteers are registered through Rescue 1122 and Civil Defence. There are also NGO's which are registered in District Nankana Sahib (detail is mentioned). Volunteers are trained to join hand with relief activities during any mishap. They will be activated through Telephone call immediately on receipt of any major Incident/Emergency.

RISK ANALYSIS

1. Potential hazards of the district

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

Risk = Impact x Likelihood

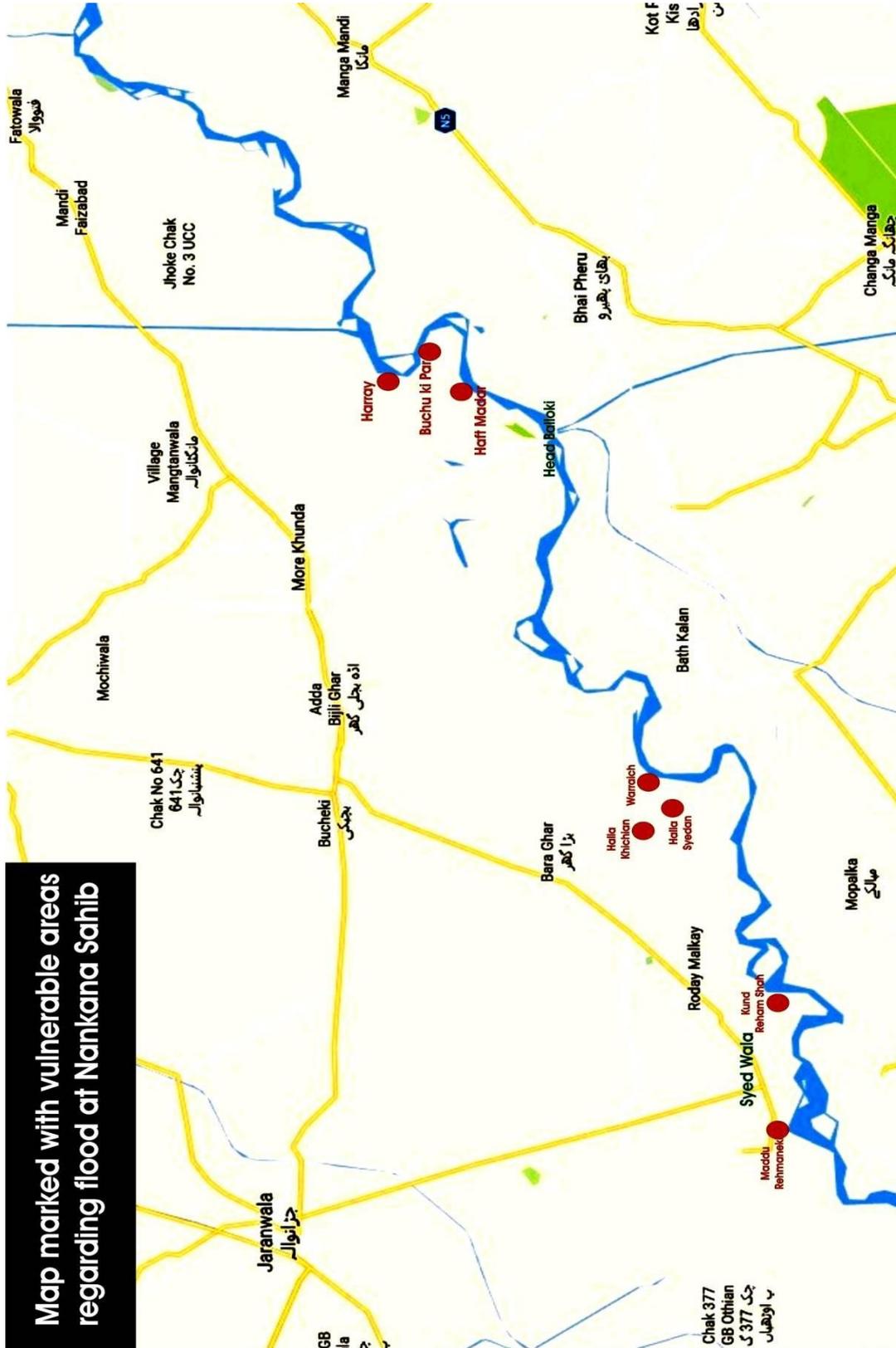
Low	:	1-7
Medium	:	8-14
High	:	15-25

2. Hazards

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

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

Source:



4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	13	13	Nil	Nil
OBM	13	13	Nil	nil
De-watering sets	24	24	-	-
Navigators	-	-	--	-
GIS devices	-	-	-	-
Life Jackets	90	90	Nil	30
Life Ring	125	125	Nil	Nil
Life Lines	3	3	Nil	12
Scuba diving suit with complete accessories	02	02	-	02
First Aid Kits	100	100	-	-
Rescue Bag	-	-	-	200
Safety Harnesses	4	4	Nil	6
Ambulances	19	16	3	Nil
Fire Brigade	5	5	Nil	-
Water Tanks / Bouzers	04	04	Nil	-
Extendable Ladders	-	-	-	-
Hydraulic Cutter	-	-	-	02
Sonar Rader	-	-	-	-
Jumping Sheet	-	-	-	-
Dumpers	1	1	-	-
Excavators	19	19	-	-
Cranes	-	-	-	-
Bulldozer	-	-	-	-
Boat Carrier/Trolleys	03	03	-	2
Pickups/Jeeps/4x4 vehicles/Mini Trucks	-	-	-	-
Searchlight	-	-	-	12
Tent	530	530	-	-
Mosquito Net	-	-	-	24
Plastic Mat	370	-	-	-
Blanket	130	130	-	-
Any other main relief/(Tractor Trolleys)	74	74	-	-
Generator Sets	12	12	-	1
Gas-Cutters	-	-	-	-
Sonar Radars	-	-	-	-
Scuba Diving Set	2	2	-	-
Navigator/GPS Tracker	-	-	-	-
Hydraulic Cutter	-	-	-	1
Floating Rope	-	-	-	12

Mitigation Strategy

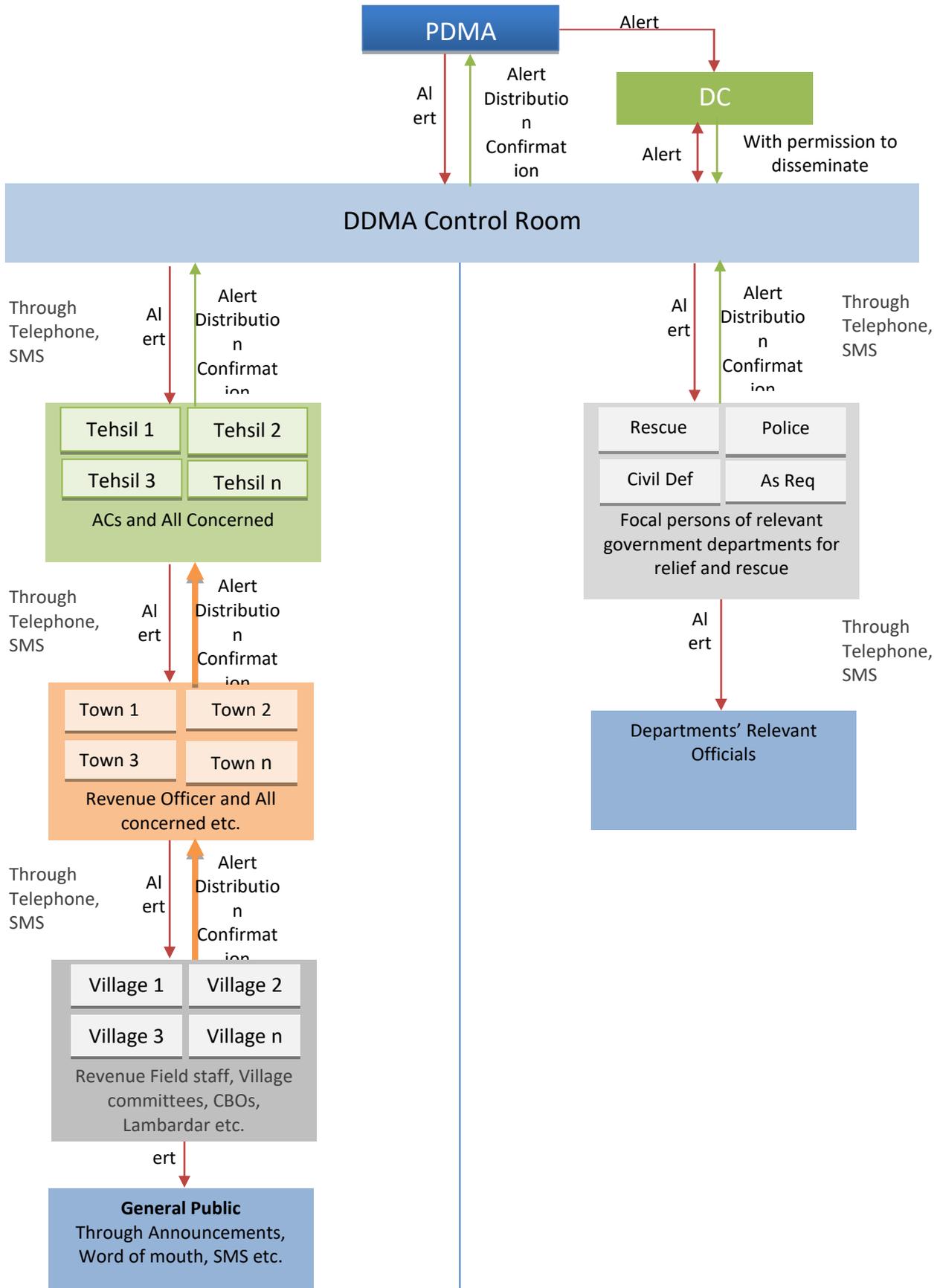
- ✓ Briefly describe what measures could be taken to reduce the impact of the potential disasters.
- ✓ Strategic pre-positioning of available relief stocks
- ✓ Public education and community awareness

Hazards	Mitigate Actions	Responsible Department
Floods/ Urban Flooding/ Drowning Incidents	<ul style="list-style-type: none"> • All the stakeholders should supervise the incidence of encroachments in relation to the floods and shall take all necessary steps to ensure. • Proper checking of the de-watering pumps available for the rainy/flood season from the low lying areas to avoid urban flooding must be kept functional. District Council, Municipal Committees in the District are responsible for the preparation of De-watering Schemes for their respective areas. • Veterinary Medicines, Vaccines and sufficient Wanda for live stock in flood prone areas / camps should be ensured and timely warning system to field formations, all necessary arrangement like availability of medicine / vaccines and food to the animals in flood affected areas will be ensured • District Health Authority should be operational and stationed at selected sites. • Anti- Snake and Anti- Rabies Venoms and first aid, Mosquito nets be ensured and must be available. XEN Irrigation and AC's have visited all the flood areas and identify vulnerable points and report to this office. • Control Room will be established in the DC Office and AC's will also establish Control Rooms in their Offices which will remain functional round the clock. 	<ul style="list-style-type: none"> ✓ DPO ✓ ADCG ✓ All ACs ✓ All Chief Officers MCs ✓ Irrigation ✓ Rescue 1122 ✓ CDO ✓ CEO, District Health Authority
Fire Incidents	<ul style="list-style-type: none"> • All the fire fighting equipments are proper functional. • incase of any fire incidents the immediate approach shall be ensured to mitigate the hazard and save damage loss of the public property. • Proper Survey of government and public property should be ensured and all concerned incharges should ensure Installation of Fire Fighting Equipments and Fire Safety Measures at all government as well as public places • Early fire fighting training to community will be given so that fire should be controlled at its initial level. 	<ul style="list-style-type: none"> ✓ Rescue 1122 (Fire Brigade) ✓ Chief Officers Municipal Committees ✓ District Officer Industry

<p>Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)</p>	<ul style="list-style-type: none"> • All the stakeholders shall be informed immediately in case of any major accident, building collapse, road traffic accidents. • Survey of Dangerous Building should be ensured • R&M works of the Roads shall be carried out at the earliest to avoid any major RTA • Construction of houses near railway line should be discouraged and availability of Railway Staff be ensured at Railway Crossing Points especially on the arrival of Train to avoid any major Train accidents • Evacuation plans should be displayed for safe existence in case of Fire Emergencies or Building collapse. 	<ul style="list-style-type: none"> ✓ Rescue 1122 ✓ Highways ✓ Railway ✓ Police ✓ Buildings Department ✓ All Concerned
--	---	---

Early Warning

Information Flow Diagram



Alertness Levels

Following four levels alertness have been established:

Level-D (Disaster threat is perceptible)

DDMA shall conduct monthly meetings besides atleast 2 mock exercises as per DDMP, well in time, to make the concerned officers/officials understand their role and responsibility for better coordination and testing of rescue and relief equipment. DDMA shall also ensure the physical presence of concerned staff deputed and availability of equipment/resources for all designated vulnerable sites within given time frame during disaster. Vulnerable site's inspections and necessary works/action shall be carried out as mitigation measures.

Level-C (Alert) (Warning issued but likelihood of occurrence is less than 100%)

Activities to be undertaken in level D

+

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

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, LOCAL BODIES 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/Tehsil Emergency Control Rooms in early warning

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

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

- ✓ District Administration will immediately response to the designated places of any emergency. However the District Control Room will Receive the early warning from Provincial Control Room and inform/ activate all concerned departments.
- ✓ Organize and set up the Flood Emergency cell within the departments. Nominated representative / liaison Officer to work in the Flood Warning center during the flood season to the authorities concerned for issuance of Alert and Danger warning massage.
- ✓ Appointment of Officers/Officials in the flood warning & control Centre after receipt of warning for medium level flood or higher till the threat is over, who will be available round the clock to ensure passing on important information to the higher authorities
- ✓ Early Warninging regarding flood shall be communicated to the people of vulnerable/ flood prone areas through announcements on loud speakers and Mosques. Concerned Patwari shall also be responsible to inform the people of his territory.

RESCUE STRATEGY

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

Rescue 1122 teams will immediately response to the affected areas along with all available resources. The Teams of Rescue 1122 shall evacuate the people from flood prone areas to the safer places/ flood relief camps and Health Department will provide medical assistance if needed.

- ✓ Cleanliness of urban areas, adjacent roads and drainages shall be the responsible of Municipal Committees.
- ✓ Dewatering Sets should be used in flood prone areas to minimize the water level by Tehsil & Town Committees
- ✓ Flood Relief Camps shall be established by Health, Education, Civil Defence, Revenue and Rescue 1122
- ✓ People shall be forcefully evacuated from the old and dangerous building with the help of Police after survey by the Buildings Department.

All the available resources shall be utilized properly to overcome the flood situation. In case of any major warning than the Pakistan Army will be requested by the District Administration for support in rescue activities.

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*
-
- ✓ The Damage and losses data will be collected on prescribed format by the Relief and Rehabilitation Teams and communicated to higher level through District Administration.
 - ✓ Immediate survey of flood affected areas should be carried out to determine the basic needs of flood affectedees i.e food, shelter, and medical needs)
 - ✓ food shall be provided to the people to minimize the human misery and sufferings by the District Administration

ANNEX I: IDENTIFIED SITES FOR DISPLACED PERSONS

- ✓ Govt Boys High School Mandi Faizabad
- ✓ Govt Boys Higher Secondary School, Morkhunda
- ✓ Govt Girls Higher Secondary School, Morkhunda
- ✓ Govt Boys Higher Secondary School, Bara Ghar
- ✓ Govt High School Syedwala
- ✓ Old Syedwala

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

INDEX OF FLOOD AFFECTED VILLAGE, AREA PAPULATION OF QANOONGOI REHANWALA NANKANA SAHIB							
NO,S	VILLAGE	AREA IN Acre	PAPULATION	7	CHAK NO.2	1212	400
1	ROSSEY	450	300	8	QILA MIAN SINGH	757	1400
2	HERREY	1160	670	9	MATHRAPUR	752	1100
3	HERRIAN	226	---	10	GANESHPUR	1150	800
4	BACHOKI YAR	5530	1550	11	ALUKEY	200	---
5	KHIZRABAD	5387	500	12	CHAK NO.3	1611	800
6	BIHARIPUR	845	700	13	THAKAR KEY	1440	500
TOTAL						19132	8720

INDEX OF FLOOD AFFECTED VILLAGE, AREA PAPULATION OF QANOONGOI MANGTANWALA NANKANA SAHIB							
NO,S	VILLAGE	AREA IN ACRE	PAPULATION	NO,S	VILLAGE	AREA IN ACAR	PAPULATION
1	JAG CHAK	200	150	7	QILA KOTO SINGH	200	---
2	HAFAT MADAR	1100	60	8	QILA MATAM SINGH	250	---
3	MALIWAL	361	35	9	QILA KOREYKA	100	---
4	JATRI	90	---	10	CHABEELPUR	150	---
5	CHITI	170	---	11	CHAK TAHIR PUR	32	---
6	SHAH CHAK	20	---	TOTAL		2673	245

INDEX OF FLOOD EFFECTED VILLAGE, AREA PAPULATION OF QANOONGOI BARA GHAR NANKANA SAHIB							
NO,S	VILLAGE	AREA IN ACRE	PAPULATION	NO,S	VILLAGE	AREA IN ACRE	PAPULATION
1	BAATH	35	50	7	MACHORA	85	10
2	WARAICH	60	35	8	ROPA MATAM	125	23
3	HALLA SAYADAN	50	55	9	PARINDA	55	45
4	HALLA KHICHIAN	70	45	TOTAL		662	15
5	THATHA KHIZAN	40	25				
6	AWAN TAHLI	142	52				

2	NAROKI YAR	450	485	2	QILA PAKKA	--	--	2	MORA KHURD	--	--
3	ASADIQUE ABAD	1250	1100	3	MANGU TARO	--	--	3	DOLAT	--	--
4	CHAIND PUR	1150	801	4	MADHOKI	--	--	4	CHAK NO 51/01	--	--
5	THATHA SANDRANA	525	200	4	BAATH			4	THATHA CHADRAN		
6	KOT TAHIR	850	900								
7	MANGERA	200	40								
TOTAL		5175	5926								

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

S#	Name and Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
1	BHU Mithran Pur	X: 31.4063236 Y:73.9730608	Primary	Haji Khalid Nouman Dispenser 03014052693	Flood
2	BHU Jagay Kot Nau Bahar	X: 31.3962632 Y:73.9148854	Primary	Dr Anam Siddiqi 03218825603	Flood
3	BHU Chand Pur	X: 31.3188809 Y:73.8406067	Primary	Dr. Asif Faheem 03025290588	Flood
4	BHU Haft Maddar	X: 31.2775729 Y:73.8706353	Primary	Dr.Bilal Ahmad 0336-8730587	Flood
5	BHU Kot Pini Das	X: 31.3112202 Y:73.7967515	Primary	Mr. Sajid Ali Dispenser 03074323537	Flood
6	BHU Kot Tahir	X: 31.2906918 Y:73.8113377	Primary	Dr. Muhammad Hussain Siddiqi 03034613076	Flood
7	BHU Machora	X: 31.143858 Y:73.500188	Primary	Dr. Danish Touheed 03334590336	Flood
8	BHU Chak Hayderabad	X: 31.1839147 Y:73.5525709	Primary	Dr.Sana Tariq 03314200693	Flood
9	BHU Malka Haji	X: 31.1449822 Y:73.5058992	Primary	Dr.Sana Tariq 03314200693	Flood
10	RHC Syedwala	X: 31.1401455 Y:73.5001633	Primary	Dr. Muhammad Rizwan Anwar 03041704145	Flood
11	BHU Mehr Pur	X: 31.1134463 Y:73.4063798	Primary	Dr.Zartash Haider 03474067300	Flood
12	BHU Fatta Thatha BHU Doday	X: 31.4757714 Y:73.7509830	Primary	Dr. Rubab Hashmat 03084333398	Flood
13	BHU Khiray Kalan	X: 31.3937745 Y:73.7784421	Primary	Dr.Huma Liaqat 03218831227	Flood
14	BHU Nabi Pur Piran	X: 31.4022815 Y:73.7530510	Primary	Dr. ZarBakht Bhatti 03016410235	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.)
15	BHU Thatha Ismailpur	X: 31.4023662 Y:737533376	Primary	Dr. Sumaiya Manzoor 03006629527	Flood
16	RHC Bucheki	X: 31.3000467 Y:736544339	Primary	Dr.Sarmand Elahi Sheikh 03120182228	Flood
17	BHU Thatha Bhattian	X: 31.1399957 Y:73.5003108	Primary	Dr. Jazib Khilji 03126534650	Flood
18	BHU Lurka	X: 31.220029 Y:73.635394	Primary	Dr. Faisal Nawaz 03455829445	Flood

ANNEX IV: LIST OF VULNERABLE EDUCATIONAL INSTITUTIONS

Sr. No.	Name of Schools	GPS Coordinates	Enrollment	Incharge Name	Contact Number
1	GGPS Bhuchokipar	31.343749 73.9661227	90	Asra Khalil	0306-5914596
2	GES Dhana Kumharan	31.307961, 74.018036	386	Karamat Ali	0308-4034558
3	GPS Kot Muhammad Hussain	31.370827, 73.995227	114	Ghulam Yasin	0333-4730850
4	GPS Sheikh Da Tubwell	31.322706, 73.957366	152	Ghulam Murtza	0305-6707147
5	GPS Nawan Kot	31.371023, 74.013936	193	Shahbaz Hussain	0300-4581625
6	GPS Alloki Thakharke	31.367508, 74.001050	121	Muhammad Azam	0332-4426914
7	GGES Behari Pur	31.366389, 73.885055	240	syeda jamila sabir	0313-4260915
8	GGPS Ganga Pur	31.33239619 73.9037045	108	Riffat Shaheen	0303-4325483
9	GHS Behari Pur	31.34654171 73.93217482	460	Asghar Ali	0300-4912746
10	GHS Rehanwala	31.41738477 73.98227972	978	Shabbir Ahmad Sabri	0333-4088159
11	GHS Mandi Faizabad	31.41187506 73.98556166	735	Muhammad Azam	0334-6202726
12	GGHS Mandi Faizabad	31.41187506 73.98379228	1277	Fouzia Riaz	0303-4647440

13	GHS Mango Taru	31.27071435 73.78740157	373	Tahir Shahzad	0322- 7700841
14	GGPS Kot Rana	31.32344744 73.92171006	33	shagufta Shahadat	0303- 5267014
15	GGPS Chak No.1 UCC	31.3558865 73.8963199	47	Bushra Manzoor	0304- 3855439
16	GGPS Khakh	31.447078 73.714045	138	Anjum Mushqat	0316-887626
17	GPS Kakh	31.730300, 73.578100	105	Abdur Razzaq Ahmad	0305- 6377411
18	GGPS Jag Da Chak	31.2871567 73.8851257	50	Jamila Tufail	0302- 4842316
19	GGHS Haft Maddar	31.2776219 73.87084792	440	Rashida Rashid	0300- 6535266
20	GHS Haft Maddar	31.27220313 73.86343374	463	Mumtaz Ali	0301- 4520151
21	GPS Maliwal	31.243441, 73.858262	93	Muhammad Imran	0306- 4175355
22	GGPS Jattri	31.24225795 73.8481932	128	Musarit parveen	0304-496426
23	GGPS Colony Shoukat Abad	31.248840 73.844275	159	Rashid Muzaffer	0333- 8302996
24	GES Colony Shoukat Abad	31.248622 73.845509	207	Iftikhar Ahmad Daar	0300- 4319999
25	GGMPS Chaindpur	31.233931 73.7273221	268	SUMRA AHMAD	0301- 5271115
26	GPS Thatha Sandrana	31.845900 73.559200	60	Abdul Ghafoor	0307- 4609778
27	GGPS Kot Tahir	31.214557 73.700938	112	MEHWISH SHOUKAT	0303- 6791332
28	GHS Kot Tahir	31.2160964 73.6943575	456	Ghulam Rasool	0346- 7785840
29	GPS Koto Singh Jan Muhammad	31.308415 73.899847	90	Muhammad Faisal	0307- 4638644
30	GPS Koto Wala Sher Muhammad	31.311286 73.913867	204	Imran babar	0305- 1680272
31	GGES Mithran Pur	31.37244688 73.97799243	194	rukhsana mansha	0307- 4454959
32	GGPS Mango Taru	31.271018633 73.788964748	93	Sonia Akram	0305- 7142189
33	GHSS More Khunda	31.32986213 73.79786446	2636	Shahbaz Elahi	0333- 4397496
34	GGHSS More Khunda	31.33403907 73.79687543	1436	Shahida Naheed	0301 4432868
35	GPS Halla Syedan	31.183180, 73.649431	173	Zaheer Abbas	0300- 4728690
36	GGES Halla Syedan	31.1802802, 73.6526519	235	Uzma Jaffer	0303- 0643047

37	GGPS Waraich	31.1860057, 73.6663399	108	Ayesha Sadiqa	0301- 7984472
38	GPS Waraich	31.506700, 73.706700	116	Muhammad Asghar	0300- 4847966
39	GHSS Bara Ghar	31.22359297 73.61686663	1131	Imtiaz Ahmed	0301- 4103872
40	GGHS Bara Ghar	31.21764122 73.63412403	555	Shabnam Khan	0301- 8048242
41	GPS Harban	31.257014, 73.652383	124	Mansab Ali	0301- 4266386
42	GPS Chak No.29/55	31.234280, 73.666717	309	Liaqat Ali	0321- 7019259
43	GES Hallah Khichian	31.186298, 73.640816	618	Ghulam Mustafa	0300- 8022230
44	GGPS Mado	31.133255, 73.485743	103	Nasima	0305 4179031
45	GPS Chak No.14/66	31.261500, 73.815000	138	Muhammad Younas	0302- 4678529
46	GGMPS Kot Hadayat	31.1761424, 73.6127533	72	Adila Noshair	0307- 7000000
47	GGPS Rajab	31.123137, 73.445206	98	Azra parveen	0302- 4000000
48	GHS Rajab	31.120061874 73.408525586	352	Imtiaz Hussain	0300- 0464900
49	GGHSS Syedwala	31.1436170339 73.4995114803	1346	Rukhsana Riaz	0301- 7984241
50	GGHS Chak No.14/66	31.16155041 73.53660083	340	Yasmin Akram	0303- 8177443
51	GHS Rai Ahmad Khan	31.140965 73.497635	709	Zafar Iqbal Watto	0301- 7268551
52	GHS Syed Wala	31.12619326 73.50287171	750	Abu Bakar Saeed	0300- 7840562
53	GES Faridabad	31.145081, 73.552195	226	Muhammad Yasir Arfat	0346- 4020744

Annex V: LIST OF INDUSTRIES WITH THEIR RISK LEVEL

Sr. No	Name of Industry	Address	GPS Coordinated	Name of Focal Person/Owners	Hazard Vulnerability (Flood. Earthquake etc)
1	Al- Abid Rice Mills,	Near Bus Stand Nankana Sahib	Latit=31.45014 5Long=73.716 137	Haji Abdul Hammed Rahmani	
2	Jalandhar Rice Mills,	Chiti Koti road Nankana Sahib	Latit=31.45089 Long=73.7156 7	Ch. Muhammad Iqbal	
3	Fiyyaz -ur-Rehman Rice Mills	Chiti Koti road, Nankana Sahib	Latit=31.45339 Long=73.7205 4	Rana Talib	
4	Pak Punjab Rice Mills,	Warburton road Nankana Sahib	Latit=31.47017 Long=73.7437	Ch. Riaz	

			0		
5	Muhammad Yaqoob & Brothers Rice Mills,	Warburton road Nankana Sahib	Latit=31.47148 Long=73.74526	Ch. Yaqoob	
6	Hira Rice Mills,	Warburton road Nankana Sahib	Latit=31.474358 Long=73.743365	Ch. M. Shafiq	
7	M. Sharif Rice Mills,	Warburton road Nankana Sahib	Latit=31.47238 Long=73.75250	Salahudin	
8	Rehmani Rice Mills,	Warburton road Nankana Sahib	Latit=31.47301 Long=73.75185	ShehbazRehmani	
9	Khalid Rice Mills,	Warburton road Nankana Sahib	Latit=31.47388 Long=73.75443	Shehzaad Khalid	
10	Khushi Foods	Warburton road Nankana Sahib	Latit=31.47379 Long=73.75699	Ch. Shafiqe	
11	Sheikh Imran Rice Mills,	Warburton road Nankana Sahib	Latit=31.47521 Long=73.76673	Sh. Tariq	
12	Al-Khursheed Rice Mills,	Warburton road Nankana Sahib	Latit= 31.47527Long =73.76699	Rana Masood	
13	Quality Rice Mills,	Warburton road Nankana Sahib	Latit=31.47557 Long=73.76891	Ch. Imran	
14	United Rice Mills,	Bypass Warburton	Latit=31.54052 Long=73.8348	Sh. Imtiaz	
15	Tariq Rice Mills,	Nankana Road Warburton	Latit=31.53047 Long=73.83677	Mian M. Tariq	
16	Sandela Rice Mills,	Nankana Road Warburton	Latit=31.520672 Long=73.848934	Shahbaz Sandeela	
17	Ali Rice Mills,	Nankana Road Warburton	Latit=31.5222L ong=73.84554	Mian Asif	
18	Ideal rice Mills,	Mustafa bad road Warburton	Latit=31.52699 Long=73.81546	Sh. Naeem Akhtar	
19	International Rice Mills,	Nankana Road Warburton	Latit=31.53147 Long=73.83459	Tahir Fwad	
20	Jamal Rice Mills,	Barra Ghar Road Bucheki	Latit=31.291973 Long=73.651303	Dr. Azhar Mehmood	
21	Bashir Rice Mills	Bara Ghar road Bucheki	Latit=31.303120 Long=73.654503	Haji M. Raiz	
22	Bismillahsaila plant,	Barra Ghar Road Bucheki	Latit=31.27474 Long=73.64098	Haji Zulfiqar	
23	Jalandhar Rice Mills,	Nankana RoadBucheki	Latit=31.31651 Long=73.6627	Ch. Asghar	
24	Al-Qadir Rice Mills,	Nankana RoadBucheki	Latit=31.31501 Long=73.66222	Malik Saeed Awan	
25	Raheem Rice Mills,	Nankana	Latit=31.33092	Sardar Shoib	

		RoadBucheki	Long=73.6633 5		
26	Al-Rehman Rice Mills,	Nankana RoadBucheki	Latit=31.31711 Long=73.6657 2	Hafiz Zakir Watto	
27	Abr-e-Karam Rice Mills,	Nankana RoadBucheki	Latit=31.34198 6Long=73.664 13	Haji M. Aram	
28	Pak Grain Rice Mills,	Buchiana Road Bucheki	Latit=31.31612 3Long=73.654 648	Ch. Naveed	
29	Nazir Rice Mills,	Nankana RoadBucheki	Latit=31.33938 Long=73.6656 6	Ch. Sajid	
30	Sona Rice Mills,	Nankana RoadBucheki	Latit=31.31646 Long=73.6609 2	Abdul Ghani	
31	YaqoomiaSaila Plant,	Nankana RoadBucheki	Latit=31.33616 Long=73.6674 4	Mian Naseer Ahmad	
32	Abdull Ghafoor Rice Mills,	Nankana RoadBucheki	Latit=31.32873 Long=73.6625 3	Saqib Ali	
33	New Kharal Rice Mills,	Nankana RoadBucheki	Latit=31.31779 Long=73.6632 8	Ray Waqeel	
34	Kharal rice mills,	Lahore-Jaranwala Road Bucheki	Latit=31.30743 5Long=73.647 731	Ray Shahid	
35	SM rice Mills	Lahore – Jaranwala road Bucheki	Latit=31.30726 5Long=73.645 637	Rana Ehsanul haq	
36	Mashallah Rice Mills,	Lahore-Jaranwala Road Bucheki	Latit=31.30959 2Long=73.646 411	Haji Allah Rakha	
37	Marhaba Rice Mills	Lahore-Jaranwala Road Bucheki	Latit=31.31083 Long=73.6449 9	Shahzad	
38	New Ghousia Rice	Mills,Lahore-Jaranwala Road Bucheki	Latit=31.30810 0Long=73.647 192	Hassan Manhees	
39	Sher-e-Rabani Rice Mills,	Lahore-Jaranwala Road Bucheki	Latit=31.30940 7Long=73.644 882	Haji Shukat	
40	Premier rice mills,	Lahore-Jaranwala Road Bucheki	Latit=31.30938 Long=73.6813 1	Jamil Hassan	
41	Hazer Rice Mills,	Lahore-Jaranwala Road Bucheki	Latit=31.30822 Long=73.6770 8	Rana Taimur Khan	
42	Muzaffar Rice Mills,	Lahore-Jaranwala Road Bucheki	Latit=31.31007 Long=73.6685 1	Rana Farooq	
43	Al- Wahab Rice Mills,	Lahore-Jaranwala Road Bucheki	Latit=31.30811 Long=73.6856 5	Haji Qasim	
44	Sultan Bahu Rice Mills,	Lahore-Jaranwala Road Bucheki	Latit=31.30413 Long=73.6872 5	Shamshad	

45	Nimat Rice Mills,	Lahore-Jaranwala Road More Khunda	Latit=31.33435 Long=73.81513	Haji M. Aslam	
46	Al-Fazal Rice Mills,	Lahore-Jaranwala Road More Khunda	Latit=31.33621 Long=73.81771	Haji Nazir Ahmad	
47	Qaba Rice Mills,	Lahore-Jaranwala Road More Khunda	Latit=31.33403 Long=73.81442	Haji Naveed Ahmad	
48	Bismiallah Rice Mills,	Lahore-Jaranwala Road More Khunda near Malik Abad	Latit=31.32038 Long=73.76578	Haji Ahmad Ali	
49	AllahoHoo Rice Mills,	Lahore-Jaranwala Road More Khunda near Malik Abad	Latit=31.32035 Long=73.76654	Haji Sh. Rafique	
50	Chenab Rice Mills,	Lahore-Jaranwala Road More Khunda near Malik Abad	Latit=31.31951 Long=73.76783	Sakhi Muhammad	
51	Allah Tawakal Rice Mills,	Nankana Road, Pepal Wala More Khunda	Latit=31.33327 Long=73.76527	Haji Shoukat Ali	
52	Mukhtair Bhatti Rice Mills,	Nankana Road, Pepal Wala More Khunda	Latit=31.33208 Long=73.76572	Munit Bhatti	
53	Allah Madad rice mills,	Lahore-Jaranwala Road near Malik Abad More Khunda	Latit=31.31864 Long=73.77206	Haji M. Amin	
54	Allah Malik Rice Mills,	Nathan More, More Khunda	Latit=31.32861 Long=73.78625	Haji AmantParyar	
55	National Rice Mills,	Head Baloki Road More Khunda	Latit=31.30913 Long=73.80141	M. Ashrif	
56	Muhammad Ali Rice Mills,	Head Baloki Road More Khunda	Latit=31.30738 Long=73.80217	Muratab Sandhu	
57	Premier Rice Mills,	Head Baloki Road More Khunda	Latit=31.30528 Long=73.80141	Dr. M. Ashraf	
58	Ittefaq Rice Mills,	Head Baloki Road More Khunda	Latit=31.30456 Long=73.80266	Falak ShairChaddhar	
59	Pak Green Rice Mills,	Head Baloki Road More Khunda	Latit=31.28245 Long=73.82346	Ray M. Akram	
60	Akhlaq Rice Mills,	Head Baloki Road More Khunda	Latit=31.26814 Long=73.83373	Rana Afnan	
61	Khadim Rice Mills,	Jaranwala Road Syed Wala	Latit=31.17017 Long=73.48432	Khadim Hussain	
62	Al-Raza Rice Mills,	Jaranwala Road Syed Wala	Latit=31.16938 Long=73.48472	Haji Talib	
63	Al-Murtaza Rice Mills,	Jaranwala Road Syed Wala	Latit=31.16995 Long=73.4860	Ray Asghar Ali	

			5		
64	Hussnain/Al- Madina Rice Mills,	Jaranwala Road Syed Wala	Latit=31.15182 Long=73.49194	Ray Hussain	
65	Sardar Brothers Rice Mills,	Jaranwala Road Syed Wala	Latit=31.15001 Long=73.49328	Abdul Ghani	
66	Gondal Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42989 1Long=74.018118	Hafiz m. Ashfaq	
67	Maka Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.43092 Long=74.01648	Arshad Iqbal	
68	Amin Rice Mills, Lahore-	Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.43099 Long=74.01507	Haji Ashrif	
69	Allah Madid Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.43099 Long=74.01320	Haji Irfan	
70	Bodla Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.43111 Long=74.01163	Haji Mushtaq Shah	
71	Ittefaq Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.43202 Long=74.01202	Mukhtar Ahmad	
72	Khokhar Rice Mills, Faizabad	Lahore-Jaranwala Road Mirzapure, Mandi	Latit=31.43111 Long=74.01163	Malik Anwar Khokhar	
73	Al-Arab Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.43214 Long=74.01439	M. Ijaz	
74	Golden Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42144 Long=73.99824	Haji Abdul Kareem	
75	Aisa Rice Mills,	Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42058 Long=73.99742	Haji Idrees	
76	Usman Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.41929 Long=73.99614	Haji Nwaz	
77	Al-Hamid Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.41997 Long=73.99673	Haji Abdul Ghani	
78	Nawaz Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42061 Long=73.99593	Imtiaz Ahmad	
79	Umar Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42055 Long=73.99551	Javaid Sadiq Rehmani	
80	Shama Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42110 Long=73.996339	Ali Ashrif	
81	Ibrahim Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42170 Long=73.99698	Haji Nazir Ahmad	
82	Shar-E-Rabani Rice Mills,	Lahore-Jaranwala Road Mirzapure, Mandi Faizabad	Latit=31.42360 Long=73.99914	Haji Saeed Ahmad	
83	Ameer Ali Rice Mills,	Boalay Shah	Latit=31.42362	M. Akram	

		Road Mandi Faizabad	Long=73.9977 4		
84	Aziz Rice Mills,	Booday Shah Road Mandi Faizabad	Latit=31.41364 Long=73.9933 5	Haji Zaheer Ahmad	
85	Pak Rice Mills,	Booday Shah Road Mandi Faizabad	Latit=31.41365 Long=73.99437	Mian Nazar Hussain	
86	Al-Fayyaz Rice Mills,	Booday Shah Road Mandi Faizabad	Latit=31.41195 Long=73.9954 8	Fyaz Ahmad	
87	Qazi Rice Mills, Booday	Shah Road Mandi Faizabad	Latit=31.41306 Long=73.99391	Haji Ashrif	
88	Fardoos Rice Mills,	Booday Shah Road Mandi Faizabad	Latit=31.41306 Long=73.99235	Haji Munir Ahmad	
89	Asia Rice Mills,	Booday Shah Road Mandi Faizabad	Latit=31.41193 Long=73.99235	Mian Farooq Ahmad	
90	Rahamt Rice Mills,	Nawa Kot Road Mandi Faizabad	Latit=31.39011 Long=73.99478	Muhammad Saleem	
91	Millat Rice Mills,	Near Ghalla Mandi JattanWali, Mandi Faizabad	Latit=31.41775 Long=73.98874	Haji Fakhar	
92	Kareem Rice Mills,	Ghalla Mandi JattanWali, Mandi Faizabad	Latit=31.41811 Long=73.98776	Haji Munir Ahmad	
93	Punjab Rice Mills, Wali,	Near Ghalla Mandi Jattan Mandi Faizabad	Latit=31.41803 Long=73.98713	Haji Iftikhar	
94	Rafique Rice Mills,	Near Ghalla Mandi JattanWali, Mandi Faizabad	Latit=31.41963 Long=73.98775	Haji Rafique	
95	Ismail Rice Mills, Wali,	Near Ghalla Mandi Jattan Mandi Faizabad	Latit=31.41966 Long=73.98697	Haji Rafeeq	
96	Moshin Rice Mills,	Khingran Wala Road Mandi Faizabad	Latit=31.42156 Long=73.9856 9	Haji Amanat Ali	
97	Bilala Tayyab Rice Mills,	Khingran Wala Road Mandi Faizabad	Latit=31.42233 Long=73.9856 1	Pervaiz Ahmad	
98	Madni Rice Mills,	ChahKanian Wala Mandi Faizabad	Latit=31.41896 Long=73.9833 1	Haji Younis	
99	Al-Bashir Rice Mill	ChahKanian Wala Mandi Faizabad	Latit=31.41971 Long=73.9832 5	Nadeem Ahmad	
100	Sakeena Rice Mills,	ChahKanian Wala Mandi Faizabad	Latit=31.42011 Long=73.9812 7	Waheed Ahmad	
101	Golra Sharif Rice Mills,	Bhutto Colony Mandi Faizabad	Latit=31.41947 Long=73.97088	Liaqat Ali Shah	
102	Kharal Rice Mills,	NazarPakka Road Mandi Faizabad	Latit=31.41521 Long=73.9788 2	RaiSanallah	

103	Nagina Rice Mills,	NazarPakka Road Mandi Faizabad	Latit=31.41521 Long=73.97986	Waqar Anwar Dogar	
104	Islam Rice Mills,	Main Road Mandi Faizabad	Latit=31.41872 Long=73.98697	ChaudharyAslamTarar	
105	Ittehad Rice Mills,	Muglawala Road Mandi Faizabad	Latit=31.40501 Long=73.96221	Muhammad Ismail	
106	Hamza Saeed Rice Mills,	Lhr-Jaranwala Road Mandi Faizabad	Latit=31.40681 Long=73.95525	EhsanSaeed	
107	Al-Wakeel Rice Mills,	Jaranwala Road Mandi Faizabad	Latit=31.40697 Long=73.95651	RanaWakeel Ahmad	
108	Rehan Rice Mills,	Lhr-Jaranwala Road Mandi Faizabad	Latit=31.40511 Long=73.95379	ChoudaryMushtaqTarar	
109	Hamza Rice Mills	Lhr-Jaranwala Road Mandi Faizabad	Latit=31.40507 Long=73.94958	Muhammad Ashraf	
110	Al-Raheem Rice Mills,	Lhr-Jaranwala Road Mandi Faizabad	Latit=31.38723 Long=73.91527	Imran Bashir	
111	Al-Madina Rice Mills,	Lhr-Jaranwala Road Mandi Faizabad	Latit=31.38196 Long=73.91017	KhadimHussain	
112	Al-Wahab Rice Mills,	Lhr-Jaranwala Road Mandi Faizabad	Latit=31.38196 Long=73.91017	RanaPervaiz	
113	ShadmanApparil Mills	ChandiKot road Warburton	Latit=31.55804 Long=73.81726	Mian Zahid Mazhar	
114	Chenab Weaving Unit-2,	Sheikhupura-Faisalabad Road Kotlakahlwan Shakhkot	Latit=31.59061 Long=73.54209	Mian Tariq Shafique	
115	New Islam Soap Industry	Nankana-Shakhkot Road	Latit=31.53336 Long=73.55276	Mian Faheem	
116	7 Star Sugar Mills	Safdarabad Road Sangla Hills	Latit=31.71019 Long=73.39645	Mahr.M. Ali	
117	Abdullah Distillery Mills	Distillery Bucheki Road Nankana Sahib	Latit=31.42079 Long=73.68107	Rana Zulifqar	

ANNEX VI: LIST OF NGOs WORKING IN THE DISTRICT

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Al-Fateh Welfare Organization	Local	Bara Ghar	Education	Azhar Iqbal M. Waqas Aslam	0301-4236092 0345-

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
						4745311
2	Noor Foundation	Local	DHQ Hospital Nankana Sahib	Health	Noor Ahmad Rehmani M. Yaqoob Tahir	0301- 4655798 0301- 4237220
3	Begum Memorial Social Welfare Society	Local	Near Municipal Committee NNS	Education	Dr. Abdul Hayee Muhammad Akram Butt	056- 2874193 0300- 4603310
4	Al-Hayat Welfare Foundation	Local	Shad Bagh Colony Nankana Sahib	Education	Mian Abdul Rashid Mr. Mulazim Hussain	0300- 8885133 0302- 4840101
5	Khawaja Awais Welfare Foundation	Local	More Khunda,	Health	Khawaja Noor-ul- Zaman Awaisi M. Zahid Awaisi	0300- 4811496
6	Hayat-ul-Huda Welfare Foundation	Local	Zeeshan Town Nankana Sahib	Education	Ghulam Jilani Shah Mrs. Iram Fatima	0300- 8824178
7	Pehchan Welfare Society	Local	Guru Bazar Nankana	Health	Dr. Abid Ali Nawaz Ali	0300- 8488176
8	Ravi Social Welfare Society	Local	Bhuchoki Par Mandi Faiz Abad	Education	M. Mansha M. Naseer Nasir	0300- 9411625
9	Sehri Ijtimai Taraqiyati Council	Local	Nankana Sahib	Education	Haji Abdul Hameed Ch. Muhammad Iqbal	0321- 8466229 0300- 4751619
10	Bahali-e- Mazooran Welfare Society,	Local	Nankana Sahib	Disability	Rana M. Sadique M. Ajmal	0301- 4030380 0321- 4596334
11	Mass Community Help & Care Welfare Society,	Local	Ghazi Town Buchikey	Education	Shaheen Fatima Kharal Mr. Qudrat	0301- 4522486 0301- 7125617

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
			Road Nankana Sahib		Ullah Shah	
12	Imam Zain-ul- Abdin Welfare Society	Local	More Khunda	Financial Assistance	Zain-ul- Abideen Mr. Shahid Saleem	0300- 4780573 0300- 4373522
13	Baba Fareed Welfare Foundation	Local	Nankana Sahib	Education	Irfan Ahmad Butt Shahbana Naz	0300- 7396585 0308- 4283672
14	Youn Mens Welfare Society	Local	Shad Bagh Colony Nankana Sahib	Financial Assistance	Safi Muhammad Rafique Muhammad Yaseen	0306- 4392925 0300- 4490390
15	Pearl Welfare Foundation	Local	Chak No.5, Nankana Sahib	Financial Assistance	Mr. Mian Amir Latif Mrs. Nazia Parveen	0300- 9837811 0300- 4963003
16	Fatima-tu-Zahra Welfare Association	Local	Near Wapda Office Adda Panuwan	Education	Mr. Muhammad Javed Mr. Muhammad Mukhtar	0304- 9609344
17	Tanzeem-e- Nau-Jawana	Local	Chak # 87 Mir Pur	Financial Assistance	Inam Khalid Mr.Haji M. Sarwar	0343- 7249100
18	Aas Welfare Society	Local	Railway Raod Sangla Hill	Financial Assistance	Mr. Muhammad Kashif Mr. Muhammad Saleem	0308- 4137285 0300- 7652342
19	Anjuman-e- Filah-e-Moashra	Local	Nai Abadi Hospital Road Sangla	Financial Assistance	M. Fazal Chathha Muhammad Naeem	0333- 8312431 0333- 8318147
20	Anjuman Tahafuz-e- Haqooq-e- Insanyaf	Local	Bhlair Ch # 123	Financial Assistance	Ghulam Rasool Mr. Zulfiqar Ali	0346- 4038689 0335- 6435839
21	Anjaman	Local	Sangla Hill	Education	Mrs.	0333-

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
	Tariquan Niswa Children Academic Center				Shahida Mushtaq Mr. Arman Iddress Chathha	6276680 0300- 7906001
22	Awaisia Welfare Society	Local	Karamat Abad Chowk Chak # 118 Sangla Hill	Education	Dr. Amjad Farooq M. Afzal Awaisi	0302- 6099882 0344- 7658129
23	Deef & Dumb Welfare Society	Local	Iqbal Poora Street # 09 Sangla Hill	Education	Mr. Arman Iddress Chathha Mr. Muhammad Sohaob	0333- 6514975 0300- 4349133
24	Ever Shine Social Welfare Society	Local	Gul-e- Bajwa Road Sangla Hil	Financial Assistance	Mr. Muhammd Siddique Mr. Gulzar Ahmad Gondal	0335- 7690011 0332- 8130778
25	Human Guides,	Local	Baldia Shoping Center Sangla Hill	Financial Assistance	Muhammad Asif Asi Sheikh M. Irfan Raza	0302- 8484950 0300- 7615447
26	Safia Rafique Welfare Society	Local	Civil Hpospital Road Ward # 1 Sangla Hill	Health	M. Tahir Javed M. Tariq Masood	0301- 4316967 0333- 4326497

ANNEX VII: CONTACT LIST OF MAIN STAKEHOLDERS / DEPARTMENTS

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Zahid Pervez	056-9201010	--	0304-0920059
2	Deputy Commissioner	Zahid Pervez	056-9201010	--	0304-0920059

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
3	DPO	Capt (R). Mansoor Aman	056-9201100	-	0308-5555664
4	ADC (G)	Syed Ahsan Raza	056-9201087	-	0318-4399944
5	DEO (Rescue 1122)	Muhammad Akram	056-9201075	-	0333-8641122
6	DO (Civil Defence)	Saira Rafique	056-2876940	-	0301-1270301
7	SNA	Mr. Tauseef Pervez	056-9201049	-	0334-4167788
8	AC _ Nankana Sahib	Zainab Tahir	056-9201050	-	0336-4426773
9	AC – Shahkot	Rana Aurangzeb	056-3711251	-	0302-4180143
10	AC – Sangla Hil	Mubarak Ali	056-3701279	-	0332-5006463
11	Chief Officer – MC Nankana Shib	Sajid Musharaf	056-2876736	-	0322-44444164
12	Chief Officer – MC Shahkot	Sofia Ashiq	056-3711912	-	0324-4448077
13	Chief Officer – MC Sangla Hill	Yasir Gillani	056-3700307	-	0324-4284375
17	CEO Education	Ahsan Fareed	056-9201029	-	0301-8116811
18	XEN Irrigation Head Balloki	Shoaib Khan	049-4610349	-	0336-6061655
19	XEN Buildings	Syed Nazar Abbas	056-2877022	-	0300-2303222
20	XEN Highways	Naveed Ashraf Ghumman	056-2876938	-	0300-8846753
21	DD Agriculture	Rana Arif Sahib	056-9201134	-	0300-6626946
22	CEO Health	Dr. Rashid Khan	056-9201057	-	0333-6475270
23	MS DHQ Hospital	Dr. Qaiser Nawaz Chann	056-9201051	-	0300-4923449
24	Additional Director Livestock	Dr Yameer Mustafa	056-9201007	-	0333-4847387

ANNEX VIII (A): LIST OF VOLUNTEERS /CD

Sr. No.	Volunteers Name	CNIC	Address	Contact No.	Blood Group	Time Required to be on board
1	Muhammad Iqbal S/o Muhammad Saleem	35501-0448892-5	Civil Defence Office NNS	0305-4382363	A+	30 Minutes
2	Sherbaz Ali S/o Sikandar Hayat	35402-5018404-1	Civil Defence Office NNS	0342-4576692	B+	30 Minutes

3	Nazir Ahmad S/o Shama	35402-0182638-1	Civil Defence Office NNS	0303-4472800	AB+	30 Minutes
4	Muhammad Rafique S/o Muhabat Ali	35501-0437834-1	Civil Defence Office NNS	0306-4171366	O+	30 Minutes
5	Muhammad Imran S/o Sh.M.Anwar	35402-2001856-7	Civil Defence Office NNS	0301-4026004	B+	30 Minutes
6	Abdul Hafeez S/o Muhammad Yasin	35501-0542623-3	Civil Defence Office NNS	0307-5487982	AB+	30 Minutes
7	Abdul Shakoor S/o Khan Muhammad	35402-6411294-9	Civil Defence Office NNS	0344-7727162	O-	30 Minutes
8	Ali Haider S/o Hadayat Ali	35501-058888-3	Civil Defence Office NNS	0308-4603527	B+	30 Minutes
9	Salman Haider S/o Syed Qamar Abbas	35402-6263447-1	Civil Defence Office NNS	0303-4869848	A+	30 Minutes
10	Muhammad Karamat Javed S/o Bashir Ahmad	33104-6788449-9	Civil Defence Office NNS	0303-8334162	A+	30 Minutes
11	Muhammad Nabeel S/o Muhammad Younis	35501-0449597-9	Civil Defence Office NNS	0307-8894941	A+	30 Minutes
12	Abdul Qadeer S/o Muhammad Ashraf	35501-0467477-7	Civil Defence Office NNS	0304-9603230	O+	30 Minutes
13	Muhammad Faisal S/o Munir Ahmad	35501-0443803-1	Civil Defence Office NNS	0302-4690626	A+	30 Minutes
14	Swala Khan S/o Jalal Din (BD Helper)	35402-5893189-7	Civil Defence Office NNS	0303-4469987	B+	30 Minutes
15	Ashiq Hussain S/o Muhammad Sarwar (Driver)	35402-1489150-3	Civil Defence Office NNS	0302-6016569	B+	30 Minutes
16	Aleem Sheikh S/o Muhammad Akram (Driver)	35501-0562683-3	Civil Defence Office NNS	0301-4226363	A+	30 Minutes
17	Muhammad Ayaz S/o CH.G.Nabi	35402-5893189-7	Civil Defence Office NNS	0303-2164334	B+	30 Minutes
18	Sajid Ali S/o Munir Ahmad	35501-0192544-5	Civil Defence Office NNS	0302-4043617	B+	30 Minutes
19	Muhammad Hashim S/o Muhammad Zafar	35501-0548912-9	Civil Defence Office NNS	0302-4586631	B+	30 Minutes
20	Muhammad Rizwan S/o Rehmat Ali	35501-0553736-3	Civil Defence Office NNS	0307-4225875	AB+	30 Minutes
21	Ijaz Butt S/o Barkat Ali Butt	35402-1996365-9	Civil Defence Office NNS	0323-6315915	O+	30 Minutes
22	Akhlaq Ahmad S/o Allah Ditta	35501-0242567-7	Civil Defence Office NNS	0304-4466533	B+	30 Minutes
23	Muhammad Nadeem S/o Muhammad Altaf	35501-0253845-1	Civil Defence Office NNS	0302-9510231	B+	30 Minutes
24	Sarfiraz Ahmad S/o Dilmer Khan	35403-5734070-3	Civil Defence Office NNS	0304-9064142	B+	30 Minutes
25	Abid Javeed S/o Javeed Ahmad	33104-5828193-3	Civil Defence Office NNS	0306-4233984	B+	30 Minutes
26	Allah Ditta S/o Sanatta	35402-2608285-1	Civil Defence Office NNS	0349-0561679	B+	30 Minutes
27	Muhammad Yaqub S/o Muhammad Shreef	35403-0629352-9	Civil Defence Office NNS	0323-8540512	B+	30 Minutes
28	Muhammad Asif S/o Liqat Ali	35501-0375811-3	Civil Defence Office NNS	0302-4785147	AB+	30 Minutes
29	Shabana Naz W/o Zahid Mahmood	35402-7286946-4	Civil Defence Office NNS	0308-4283672	B+	30 Minutes

30	Nighat Sultan D/o Muhammad Aslam	35501-0326555-4	Civil Defence Office NNS	0308-4385290	B+	30 Minutes
31	Asia Altaf W/o Altaf Hussain	35402-1928098-3	Civil Defence Office NNS	0304-4612269	A+	30 Minutes
32	Shahdia Perveen W/o Akhter Salam	35501-0431833-4	Civil Defence Office NNS	-	O-	30 Minutes
33	Naveed Ahamd S/o Bashir Ahmad	35501-0202874-3	Civil Defence Office NNS	0323-4053156	B+	30 Minutes
34	Muhammad Muneeb S/o Muhammad Ramzan	35501-0427485-5	Civil Defence Office NNS	0300-7256811	A+	30 Minutes
35	Muhammad Qasim S/o Mansab Ali	35501-0591934-1	Civil Defence Office NNS	0303-4866562	A+	30 Minutes
36	Khalid Mahmood S/o Khan Muhammad	35402-3204720-1	Civil Defence Office NNS	0302-7166168	A+	30 Minutes
37	Mahmood Ali S/o Shafie Muhammad	35402-1998043-9	Civil Defence Office NNS	0303-4865993	B+	30 Minutes
38	Maqsood Ahmad S/o Riaz Ahmad	35501-0601222-7	Civil Defence Office NNS	0304-4498585	B+	30 Minutes
39	Sanaullah S/o Shaukat Ali	35402-0913764-7	Civil Defence Office NNS	0307-4483873	AB+	30 Minutes
40	Khalid Mahmood S/o Muhammad Yousaf	35402-3210133-5	Civil Defence Office NNS	0307-4762623	B+	30 Minutes
41	Muhammad Yousaf S/o Mughal Khan	35402-1987792-5	Civil Defence Office NNS	0303-4799664	B+	30 Minutes
42	Usman Khalid S/o Khalid Mahmood	35501-0326604-9	Civil Defence Office NNS	0309-7007302	B+	30 Minutes
43	Adeel Ahmad S/o Ali Muhammad	35501-0364312-3	Civil Defence Office NNS	0301-306-7761	B+	30 Minutes
44	Ali Nawaz S/o Ali Asghar	35501-0516884-3	Civil Defence Office NNS	0304-4344728	B+	30 Minutes
45	Musharaf Quddus S/o Abdul Quddus	35402-4180970-9	Civil Defence Office NNS	0304-4847417	B+	30 Minutes
46	Ashraf Ali S/o Muhammad Latif	35501-0507609-7	Civil Defence Office NNS	0301-4112474	AB+	30 Minutes
47	Abdul Jabbar S/o Ahmad Ali	35501-0350452-5	Civil Defence Office NNS	0306-1487544	B+	30 Minutes
48	Qurban Ali S/o Manzoor Ahmad	35501-0582542-5	Civil Defence Office NNS	0307-6740459	B+	30 Minutes
49	Shakeel Yousaf S/o Muhammad Yousaf	35402-4737943-9	Civil Defence Office NNS	0302-7124168	A+	30 Minutes
50	Muhammad Ahmad S/o Muhammad Ali	35501-0601222-7	Civil Defence Office NNS	0301-4838211	O-	30 Minutes
51	Muhammad Munir S/o Muhammad Mansha	35402-3113729-3	Civil Defence Office NNS	0301-7266599	B+	30 Minutes
52	Saqlain Manzoor S/o Manzoor Hussain	35501-0469884-3	Civil Defence Office NNS	0308-2815105	AB+	30 Minutes
53	Basharat Ali S/o Muhammad Rafiq	35402-8409672-9	Civil Defence Office NNS	0346-7867017	O-	30 Minutes
54	Muhsin Ali Janjua S/o Muhammad Jahangir	35501-0428842-3	Civil Defence Office NNS	0304-4282782	B+	30 Minutes
55	Sarfaraz Khan S/o Dlair Khan	35403-5734070-3	Civil Defence Office NNS	0341-6142379	A+	30 Minutes
56	Muhammad Aleem S/o Muhammad Akram	35501-0383202-1	Civil Defence Office NNS	0301-4226363	A+	30 Minutes
57	Muhammad Rizwan S/o Rehmat Ali	35501-0553736-3	Civil Defence Office NNS	0307-4225875	A+	30 Minutes

58	Muhammad Rafique S/o Muhabat Ali	35501-0437834-1	Civil Defence Office NNS	0306-4171366	O+	30 Minutes
59	Nazir Ahmad S/o Shama	35402-0182638-1	Civil Defence Office NNS	0303-4472800	A+	30 Minutes
60	Muhammad Hashim S/o Muhammad Zafar	35501-0548912-9	Civil Defence Office NNS	0302-4586631	B+	30 Minutes
61	Ali Haider S/o Hadayat Ali	35501-0588884-3	Civil Defence Office NNS	0308-4603527	AB+	30 Minutes
62	Salman Haider S/o Syed Qamar Abbas	35402-6263447-1	Civil Defence Office NNS	0303-4869848	O-	30 Minutes
63	Muhammad Imran S/o Muhammad Anwar	35402-2001856-7	Civil Defence Office NNS	0301-4026004	B+	30 Minutes
64	Muhammad Faisal S/o Munir Ahmad	35501-0443803-1	Civil Defence Office NNS	0302-4690626	A+	30 Minutes
65	Allah Ditta S/o Sanata	35402-2608285-1	Civil Defence Office NNS	0349-0561678	A+	30 Minutes
66	Sharbaz Ali S/o Sikandar Hayat	35402-5018404-1	Civil Defence Office NNS	0342-4576692	A+	30 Minutes
67	Abdul Qader S/o Muhammad Ashraf	53501-0467477-7	Civil Defence Office NNS	0304-9603230	O+	30 Minutes
68	Muhammad Waqas S/o Zolfaqar Ali	35501-0220424-7	Civil Defence Office NNS	03014802775	A+	30 Minutes
69	Farhan Shan S/o Muhammad Afzal	35501-0287031-4	Civil Defence Office NNS	03064604918	B+	30 Minutes
70	Abid Arshad S/o Arshad Ali	35501-0159815-9	Civil Defence Office NNS	03004611870		30 Minutes
71	Muhammad Ayoub S/o Muhammad Youqab	35402-8551649-9	Civil Defence Office NNS	03004628728	AB+	30 Minutes
72	Awan Muhammad S/o Shabier Ahmad		Civil Defence Office NNS	03003833693	O-	30 Minutes
73	Tahir Abbas S/o Liqueat Ali	3504-8045164-5	Civil Defence Office NNS	03054780445	B+	30 Minutes
74	Aqiab Hussain S/o TALab Hussain		Civil Defence Office NNS	03067074475	A+	30 Minutes
75	Qamar Hussain S/o Muhammad Gafoor	35501-0195012-1	Civil Defence Office NNS	03054710699	A+	30 Minutes
76	Muhammad Toseef ur rahman S/o Delbar khan	35202-8848041-5	Civil Defence Office NNS	03074621634	A+	30 Minutes
77	Gulzar Ali S/o Muhammad Yasian	35501-0404659-5	Civil Defence Office NNS	03344472702	O+	30 Minutes
78	Sajed Ali S/o Salam din	35501-04036419-9	Civil Defence Office NNS	03084083214	A+	30 Minutes
79	Muhammad Yasian S/o Rahmat Ali	355010404700-7	Civil Defence Office NNS	03074247712	B+	30 Minutes
80	Muhammad Zabar Ameen S/o Muhammad Ameen	35403-3385029-3	Civil Defence Office NNS		AB+	30 Minutes
81	Mozamal Hussain S/o Qarsheed Ahmad		Civil Defence Office NNS	03017074475	O-	30 Minutes
82	Sajad Ali S/o Maneer Ahmad	355010192544-5	Civil Defence Office NNS	03024043617	B+	30 Minutes
83	Tasver Hussain S/o Nazeer Hussain	35501-0405294-3	Civil Defence Office NNS	-	A+	30 Minutes
84	Muhammad Ashaq S/o Noor Muhammad	35402-4027767-7	Civil Defence Office NNS	-	A+	30 Minutes
85	Muhammad Wasif S/o Liqueat Ali	33104-6915682-9	Civil Defence Office NNS	03441284362	A+	30 Minutes

86	Muhammad Younias S/o Nazar Hussain	35402-4047512-7	Civil Defence Office NNS	03074282800	O+	30 Minutes
87	Naim Hussain S/o Muhammad Amjad	35501-0363629-5	Civil Defence Office NNS	03004258822	A+	30 Minutes
88	Muhammad Asif S/o Barkat Ali	35501-0276158-1	Civil Defence Office NNS	-	B+	30 Minutes
89	Tajmal Aslam S/o Muhammad Aslam Khan	35501-0517510-5	Civil Defence Office NNS	03060470104	AB+	30 Minutes
90	Saharyar S/o Muhammad Amjad	35501-0469064-7	Civil Defence Office NNS	03084492533	O-	30 Minutes
91	Zahid Ahmad S/o Asgar Ali	35501-0358335-1	Civil Defence Office NNS	03014075371	B+	30 Minutes
92	Mohsan Ali S/o Bashir Ahmad Qadari	35402-1972026-7	Civil Defence Office NNS	03224382735	A+	30 Minutes
93	Maktar Ahmad S/o Muhammad Anvar	35501-0210360-1	Civil Defence Office NNS	03004752713	A+	30 Minutes
94	Waqar Ali S/o Alla Raka	35501-0333102-3	Civil Defence Office NNS	03014436724	A+	30 Minutes
95	Zaheer Abbas S/o Mohabat Ali	35501-0383772-1	Civil Defence Office NNS	03426608503	O-	30 Minutes
96	Shokat Ali S/o Liqat Ali	35501-0385808-9	Civil Defence Office NNS	0344076572	AB+	30 Minutes
97	Muhammad Javaid S/o Muhammad Raqeeb	35402-6598901-7	Civil Defence Office NNS	03024883320	A+	30 Minutes
98	Gulfom Shahzad S/o Arshad Ali	355010166473-5	Civil Defence Office NNS	03214597337	B+	30 Minutes
99	Nasrulha S/o Galam Mostafa	35501-0416493-7	Civil Defence Office NNS	03004567647	A+	30 Minutes
100	Muhammad Sobhan S/o Alla ditta	35501-0412365-1	Civil Defence Office NNS	03446641873	AB+	30 Minutes
101	Irfan Ali S/o Khan Muhammad	35501-0425495-9	Civil Defence Office NNS	03064620361	A+	30 Minutes
102	Muhammad Fasil S/o Maneer Ahmad	35501-0443803-1	Civil Defence Office NNS	03024490626	B+	30 Minutes
103	Saqlain Ali S/o Waris Ali	35502-0222489-5	Civil Defence Office NNS	0343-4369049	O+	30 Minutes
104	Muhammad Zubair S/o Muhammad Asghar	33104-3660629-9	Civil Defence Office NNS	0302-9574540	O+	30 Minutes
105	Babar S/o Ammanoel	35502-0167929-7	Civil Defence Office NNS	0304-9512744	A+	30 Minutes
106	Almas Hasan Gul S/o Ghulam Hassan	35502-0208382-5	Civil Defence Office NNS	0305-6373188	AB+	30 Minutes
107	Nauman Tahir S/o Tahir Mahmood	35202-9487221-5	Civil Defence Office NNS	0309-4565250	B+	30 Minutes
108	Sajid Waheed S/o Abdul Latif	35502-0206668-7	Civil Defence Office NNS	0344-4668048	B+	30 Minutes
109	Sabir Hussain S/o Zulfiqar Ali	35502-0157741-3	Civil Defence Office NNS	0301-7101355	A+	30 Minutes
110	Muhsin Raza S/o Muhammad Arshad	35502-0188185-5	Civil Defence Office NNS	0344-4668048	A+	30 Minutes
111	Khadim Hussain S/o Muhammad Arif	35502-0238196-7	Civil Defence Office NNS	0307-8819778	AB+	30 Minutes
112	Zahid Ali S/o Muhammad Arif	35403-4803167-3	Civil Defence Office NNS	0304-1891044	A+	30 Minutes
113	Kashif Ali S/o Ashiq Ali	35502-0195851-1	Civil Defence Office NNS	0304-8839351	AB+	30 Minutes

114	Muhammad Fezan S/o Muhammad Saeed	35502-0160854-7	Civil Defence Office NNS	0347-5415515	O+	30 Minutes
115	Muhammad Nabeel S/o Muhammad Afzal	35502-0183308-7	Civil Defence Office NNS	0342-8786366	A+	30 Minutes
116	Zeshan Ali S/o Arshad Ali	35502-0216166-3	Civil Defence Office NNS	0306-7161909	A+	30 Minutes

ANNEX VIII (B) : LIST OF SWIMMERS/DIVERS

S#	Name	CNIC	Address	Contact Number and Email	Blood Group	Time Required to be on-board
1	Rai Saleem Haider	35402-2796526-9	Rescue 1122	0305-6370959	O+	30 Minutes
2	Babar Farooq	35403-8824835-9	Rescue 1122	0302-2994296	O+	30 Minutes
3	Amir Ali	35402-4009767-5	Rescue 1122	0301-4027465	B+	30 Minutes
4	Intzar Mehdi	35402-2609216-9	Rescue 1122	0306-4492480	B+	30 Minutes
5	Saeed Ahmad	35402-3377407-3	Rescue 1122	0305-9970980	B+	30 Minutes
6	Ahmad Ali	33104-2136333-9	Rescue 1122	0345-7889445	A+	30 Minutes
7	Ijaz Ahmad	35403-8751443-5	Rescue 1122	0300-6486673	AB+	30 Minutes
8	Samar Iqbal	35404-1570169-5	Rescue 1122	0300-7338085	B+	30 Minutes
9	Muhammd Sohail	35501-0155067-9	Rescue 1122	0301-4245521	B-	30 Minutes
10	Ali Raza	35502-0151244-9	Rescue 1122	0343-4615587	B+	30 Minutes
11	Abdul Majeed	35501-0210478-3	Rescue 1122	0334-3614106	O+	30 Minutes
12	Ashraf Ali	35501-0142463-5	Rescue 1122	0300-8261122 0301-4546539	O+	30 Minutes
13	Zeshan Akram	35501-0231893-9	Rescue 1122	0334-8078050	B+	30 Minutes
14	Faqir Hussain	35501-0199610-7	Rescue 1122	0300-8241122	B+	30 Minutes
15	Muzammil Murtaza	35504-9931775-3	Rescue 1122	0346-7802898	B+	30 Minutes
16	M. Akhtar	35501-0144056-5	Rescue 1122	0304-4494494	B+	30 Minutes
17	M. Zubair Rashid	35501-0247099-7	Rescue 1122	0344-7405354	B-	30 Minutes
18	M. Shahid	35501-0352269-5	Rescue 1122	0300-9739655	O-	30 Minutes
19	Mohsin Arshad	35502-0135862-5	Rescue 1122	0307-4821884	O+	30 Minutes
20	Shahid Nazir	35501-0143949-9	Rescue 1122	0301-4923223	B+	30 Minutes
21	Habib ur Rehman	35501-0474331-5	Rescue 1122	0304-1381712	B+	30 Minutes
22	Mahmood Ahmad	33103-4826907-7	Rescue 1122	0342-8869276	O+	30 Minutes
23	Arshad Ali	33104-2185725-7	Rescue 1122	0344-7773863	O+	30 Minutes
24	M. Adnan	35502-0140036-7	Rescue 1122	0304-6612495	B+	30 Minutes
25	Amjad Ali	35402-0390746-3	Rescue 1122	0301-4331321	B+	30 Minutes
26	M. Siddique	35404-1798165-1	Rescue 1122	0307-4011122	B+	30 Minutes
27	M. Naeem	35404-1798165-1	Rescue 1122	0300-4444547	A+	30 Minutes
28	H. Ziaullah Siddiqui	35501-0250743-1	Rescue 1122	0306-9276221	B+	30 Minutes
29	Zahid Hussian	35403-9770548-1	Rescue 1122	0307-4037180	B+	30 Minutes
30	Naeem Rustam	35402-8824505-5	Rescue 1122	0300-4444547	A+	30 Minutes
31	Irfan Manzoor	35501-0258067-1	Rescue 1122	0308-4671122	O+	30 Minutes

32	Shamas Ali	35402-7355198-9	Rescue 1122	0345-6334813	B+	30 Minutes
33	Amir Ghulam	35402-3477317-7	Rescue 1122	0300-9134155	AB+	30 Minutes
34	Faizan Liaqat	54400-8545527-7	Rescue 1122	0307-4311743	AB+	30 Minutes
35	M. Adnan	35502-0140036-7	Rescue 1122	0304-6612495	B+	30 Minutes
36	Waris Ali	32102-7526131-3	Rescue 1122	0346-7355598	O+	30 Minutes
37	Zeeshan Zafar	35403-6417209-1	Rescue 1122	0312-7041900	B-	30 Minutes
38	M. Faisal Iqbal	35404-9069665-1	Rescue 1122	0300-5595732	B+	30 Minutes
39	Sajid Ali	35503-0136705-5	Rescue 1122	0303-4519924	A+	30 Minutes
40	Rehan Ghafoor	3310-7881525-7	Rescue 1122	0300-4736369	B+	30 Minutes
41	M. Imran Manzoor	35402-1614063-1	Rescue 1122	0308-8080296	O+	30 Minutes
42	Hafiz-ur- Rehman	35402-4537773-1	Rescue 1122	0300-4601293	AB+	30 Minutes
43	M. Saeed Akram	35402-1975089-7	Rescue 1122	0301-4309107	O+	30 Minutes
44	M. Saqib	35502-0117437-3	Rescue 1122	0302-7167278	O+	30 Minutes
45	Azhar Nawaz	35501-0898497-1	Rescue 1122	0340-4213502	B+	30 Minutes
46	M. Khalid	35501-0136804-7	Rescue 1122	0334-4098761	O+	30 Minutes
47	M. Tayyab Khan	35503-0197456-5	Rescue 1122	0343-9337773	A+	30 Minutes
48	Mehboob Ur Rehman	35502-0158987-9	Rescue 1122	0346-6328124	AB+	30 Minutes
49	M. Bilal Ahmad	35501-0448471-7	Rescue 1122	0306-74496256	O-	30 Minutes
50	M. Anwar	35402-2566199-5	Rescue 1122	0303-4864245	O+	30 Minutes
51	Adnan Shahbaz	35501-0132769-7	Rescue 1122	0333-4769752	B+	30 Minutes
52	M. Ashraf	3550-0110063-1	Rescue 1122	0300-7847493	B+	30 Minutes
53	M. Nasir	33104-0739958-5	Rescue 1122	0300-8169864	B+	30 Minutes
54	Usman Liaqat	54400-6966218-3	Rescue 1122	0301-5222274	B+	30 Minutes
55	M. Naveed Iqbal	35402-8099771-7	Rescue 1122	0334-4382495	B+	30 Minutes
56	Hussnain Ali	35501-0366916-9	Rescue 1122	0300-5349230	O+	30 Minutes
57	Zia-ullah khan	35501-0283906-7	Rescue 1122	0306-4587724	AB+	30 Minutes
58	Asif Ali	35501-0244270-9	Rescue 1122	0332-0561122	B+	30 Minutes
59	M. Aamir	35402-7684233-9	Rescue 1122	0302-4784455	O+	30 Minutes
60	Zubair Nazir	35501-0463956-5	Rescue 1122	0304-5432065	A+	30 Minutes
61	Ghulam Hassan	35501-0177790-7	Rescue 1122	0306-4682944	AB+	30 Minutes
62	Ajmal Naseer	35501-0210658-5	Rescue 1122	0343-7829764	A+	30 Minutes
63	Mubashar Hassain	35501-0378677-1	Rescue 1122	0301-4500849	A+	30 Minutes
64	M. Bilal	35402-6706133-9	Rescue 1122	0302-4651556	B+	30 Minutes
65	Sajid Hussain	35501-0449171-5	Rescue 1122	0345-0426009	O+	30 Minutes
66	Yasir Javed	35402-0245350-1	Rescue 1122	0306-3336691	B+	30 Minutes
67	M. Usman	35501-0449940-5	Rescue 1122	0301-4844430	O-	30 Minutes
68	Fahad Munir	35402-7814407-3	Rescue 1122	0333-4473971	B+	30 Minutes
69	M. Ijaz	Ameer Ali	Rescue 1122	-	O+	30 Minutes
70	Musaddaq yousaf	35501-0384354-3	Rescue 1122	0304-4710003	A+	30 Minutes
71	Mirza Faizan Ali	35501-0351404-3	Rescue 1122	0307-4141364	B+	30 Minutes
72	Tanveer Ahmad	35402-6992403-5	Rescue 1122	0304-0112211	O+	30 Minutes
73	Ghulam Mustafa	35501-0438422-1	Rescue 1122	0307-8413852	B+	30 Minutes

74	Ahad Mehmood	35501-0223527-5	Rescue 1122	0346-7603098	B+	30 Minutes
75	M. Waseem	35501-0229979-1	Rescue 1122	0303-4316550	A+	30 Minutes
76	Waqas Liqat	35501-0338506-5	Rescue 1122	0302-7273889	O+	30 Minutes
77	Adnan Younas	35501-0338567-1	Rescue 1122	0300-4567815	B+	30 Minutes
78	Nadeem Anjum	35402-0711254-9	Rescue 1122	0307-6069712	B+	30 Minutes
79	Faizan-ul-Haq	33104-0311522-3	Rescue 1122	0309-4953621	B+	30 Minutes
80	M. Shahbaz	35501-0412170-1	Rescue 1122	0345-7728812	B+	30 Minutes
81	Ashfaq Ahmad	35501-0213501-9	Rescue 1122	0301-4704369	O+	30 Minutes
82	Ahsan Boota	35403-7057124-3	Rescue 1122	0304-2166969	O+	30 Minutes
83	Abbas Hassan Gill	35502-0156442-9	Rescue 1122	0303-4238436	O+	30 Minutes
84	Ali Raza	35502-0134813-5	Rescue 1122	0341-0615165	A+	30 Minutes
85	Ghulam Mustafa	35501-0438422-1	Rescue 1122	0307-8413852	B+	30 Minutes
86	Abdul Hameed	35502-9131487-5	Rescue 1122	0302-3323305	O+	30 Minutes
87	Khizar Ilyas	33104-5620810-1	Rescue 1122	0302-7981332	B+	30 Minutes
88	M. Usman Ashraf	35403-9945405-1	Rescue 1122	0300-4251122	AB+	30 Minutes
89	Nisar Ahmad	33104-5256498-7	Rescue 1122	0345-7675396	O+	30 Minutes
90	M. Shabbir Aslam	33104-6924741-1	Rescue 1122	0344-8946295	AB+	30 Minutes
91	Mubashar Ahmad	35501-0311957-9	Rescue 1122	0345-1282306	B+	30 Minutes
92	Ahmad Faraz	35404-4021514-3	Rescue 1122	0346-6334976	AB+	30 Minutes
93	Khalid Javed	35402-1941822-5	Rescue 1122	0345-6607254	A+	30 Minutes
94	Ehsan Ali	35402-0859178-3	Rescue 1122	0300-4588609	B+	30 Minutes
95	Khalid Mahmood	35402-9360518-5	Rescue 1122	0301-7267247	B+	30 Minutes
96	Nasir Ali	35402-4153833-9	Rescue 1122	0301-4038152	A-	30 Minutes
97	Amjad Ali	35402-1967384-9	Rescue 1122	0301-4331321	B+	30 Minutes
98	Tariq Mehmood	35402-1953391-5	Rescue 1122	0345-7815889	AB+	30 Minutes
99	Hameed Ullah	33104-4210035-1	Rescue 1122	0302-3324568	O+	30 Minutes
100	Aamer Maqbool	35402-2001025-1	Rescue 1122	0301-4957588	AB+	30 Minutes
101	M. Usman	35501-0267095-9	Rescue 1122	0301-3112990	A+	30 Minutes
102	Riaz Ahmad	35402-5159075-3	Rescue 1122	0307-6431122	A+	30 Minutes
103	Nasir Ali	35402-6070258-1	Rescue 1122	0301-4198061	B+	30 Minutes
104	Kashif Mushtaq	35402-1931939-7	Rescue 1122	0300-4925207	B+	30 Minutes
105	Shah Jahan	35402-0204390-7	Rescue 1122	0306-4628821	B+	30 Minutes
106	Maqsood Ali	35501-0135827-7	Rescue 1122	0300-6640578	B+	30 Minutes
107	M. Umair Zulfiqar	35402-0812172-5	Rescue 1122	0302-3441034	A+	30 Minutes
108	Farooq Ahmad	33104-4618677-9	Rescue 1122	0345-1713632	AB+	30 Minutes
109	Karamat Ali	35402-5020741-9	Rescue 1122	0304-4002500	O+	30 Minutes
110	Kashif Nadeem	35402-8028231-7	Rescue 1122	0300-4850396	O-	30 Minutes
111	Safdar Ali	35501-0273793-9	Rescue 1122	0305-4079989	A+	30 Minutes
112	M. Humayun	35501-0244666-1	Rescue 1122	0300-4820025	A+	30 Minutes
113	Mudassar Nazar	35501-0167313-3	Rescue 1122	0344-6619872	B+	30 Minutes
114	Iftikhar Ali	33402-6079905	Rescue 1122	0344-7874060	AB+	30 Minutes
115	M. Kashif	35501-0366787-3	Rescue 1122	0306-4741122	O+	30 Minutes
116	M. Usman	35202-0252016-5	Rescue 1122	0345-6774017	B+	30 Minutes
117	M. Sohail	35501-0428250-9	Rescue 1122	0300-0434261	O+	30 Minutes
118	Faisal Naseer	35402-9601803-3	Rescue 1122	0302-4737471	A+	30 Minutes
119	Basharat Ali	35402-0792359-7	Rescue 1122	0301-5621122	O-	30 Minutes
120	Aftab Ahmad Khan	33104-3869303-3	Rescue 1122	0301-4763064	AB+	30 Minutes
121	M. Jabbar	35501-0442701-7	Rescue 1122	0302-4091041	A+	30 Minutes
122	Zaheer Abbas	35402-3504298-9	Rescue 1122	0300-4791972	AB+	30 Minutes

123	M. Arshad	35402-9106744-1	Rescue 1122	0300-0433872	O+	30 Minutes
124	Abdul Waheed	35202-4556239-5	Rescue 1122	0305-4653588	A-	30 Minutes
125	M. Usman Shahid	35502-0188478-7	Rescue 1122	0303-4171964	A+	30 Minutes
126	M. Ramzan	35403-2398207-9	Rescue 1122	0345-4392686	B+	30 Minutes
127	Malik Hussain	35504-0365834-5	Rescue 1122	0303-7117126	A+	30 Minutes
128	Abad Nadeem	33104-2506420-3	Rescue 1122	0300-7671091	B+	30 Minutes
129	Adnan Hussain	33104-2362546-3	Rescue 1122	0303-3091207	B+	30 Minutes
130	Kamran Shahid	35501-0137120-1	Rescue 1122	0345-7883183	O+	30 Minutes
131	Qaisar Rafique	35302-1046405-5	Rescue 1122	0342-6351122	B+	30 Minutes
132	M. Sajid Anwar	35403-6521991-7	Rescue 1122	0306-9170312	O+	30 Minutes
133	Sajid Naseer	35402-9601803-3	Rescue 1122	0304-3886996	AB+	30 Minutes
134	Waqas Farid	35501-012645-7	Rescue 1122	0346-7758033	B+	30 Minutes
135	M. Shahbaz	35502-0143722-3	Rescue 1122	0300-7943410	O+	30 Minutes
136	Sakandar Nawab	38301-0248599-1	Rescue 1122	0300-7688234	B+	30 Minutes
137	M. Ashfaq	35502-0179472-1	Rescue 1122	0342-7824421	A+	30 Minutes
138	M. Nawaz	35403-1059194-5	Rescue 1122	0300-7281688	B+	30 Minutes

ANNEX IX: POLITICAL CONSTITUENCIES

National Constituencies				Provincial Constituencies			
Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number	Name of constituency	Name of Sitting Parliamentarian	Portfolio	Contact Number
NA-117	Muhammad Barjees Tahir	MNA	0300-9482500	PP-131	Ijaz Hussain Bhatti	MPA	0301-8659403
NA-118	Br. R Ijaz Shah	MNA	0300-8477729	PP132	Mian Atif	MPA	0321-6605558
				PP-133	Mehar Kashif Rang Elahi Pudhyar	MPA	0300-4248997
				PP-134	Aga Ali Haider	MPA	0300-4788747

ANNEX X: LOCAL GOVERNMENT

District and Tehsil Level

S#	Designation	District/Tehsil Name	Name	Contact Number	Mobile Number
1	Chief Officer	Nankana Sahib	Qazi Abid Quayyam	056-9201039	0308-5788894
2	Chief Officer	MC, Nankana	Sajid Musharraf	056-3540531	0322-4444164
3	Chief Officer	Shahkot	Anwaar Sahib	056-2794026	0300-9435833
4	Chief Officer	Sangla Hill	Yasir Gillani	056-3700307	0324-4284375

Town Level

S#	Tehsil	TC	Chair	Chair Contact	Vice Chair	VC Contact
1	Nankana Sahib	Warburton	Qazi Abid Quayyam	0308-5788894	Musaddaq	0335-0294338
2	Nankana Sahib	Mandi Faizabad				
3	Nankana Sahib	Morkhunda				
4	Nankana Sahib	Bucheki				
5	Nankana Sahib	Syedwala				

ANNEX XI: DATA COLLECTION PROFORMAS

P1: House Damage Assessment

District: _____

Date: _____

S#	Name	Father Name	CNIC	Address	Revenue Estate	Union Council	Tehsil	Partially/Completely	Katcha/Pakka	%age of Damage	Contact No.	GPS Coordinates	Picture Taken (Y/N)
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P2: Deceased Person Reporting Proforma

District: _____

Date: _____

S#	Name of deceased	Father's name	Address	Domicile	Gender	Age	CNIC	Cause of death	Date of death	Place of death	Marital status	Next of kins (Name and Contact and CNIC etc.)	Verifying Officer (Name, Designation and Contact)	Compensation Paid or not
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P3: Injurd Person Reporting Proforma

District: _____

Date: _____

S#	Name of injured	Father's name	Address	Domicile	Gender	Age	CNIC	Cause of injury	Date of injury	Injury Type (Permanent or Temporary)	Compensation Paid or not
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P4: Cattle Head Perished

District: _____

Date: _____

S#	Name of Farmer	Father Name	CNIC	Mauza	Tehsil	Type of Animals	Number of Animals (Cow, sheep etc.)	Vaccinated/ Unvaccinated	Witness 1 name and contact No.	Witness 2 Name and Contact No.
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P5: Crop Damages

District: _____

Date: _____

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: NANKANA SAHIB

Date: _____

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

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

District: NANKANA SAHIB

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.
----	-------------	-------------	-----------------	--------------------	------------------------------	----------------------	-----------------------------------

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: NANKANA SAHIBFocal Person: MR. TOSEEF PERVEZDate: 15-06-2022

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.

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)
<u>SARGODHA ZONE</u>			
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
<u>PMO BARRAGES</u>			
1	Kalabagh H/Works Division	Jinnah Barrage	25,080
Total in feet.			25,080
Total in Miles.			4.75
<u>FAISALABAD DIVISION</u>			
1	Khanki Division	Left Marginal Bund	21,000
2	-do-	Right Marginal Bund	33,650
3	Jhang Division	Jhang Flood Protection Bund	71000
4	Qadirabad Barrage Division	Left Marginal Bund	64938
5	-do-	Right Marginal Bund	106300
Total in feet.			296888
Total in Miles.			56.22
<u>BAHAWALPUR ZONE</u>			
1	Punjad Head works Division	Right Marginal Bund	70554
2	-do-	Left Marginal Bund	65169
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	115300
Total in feet.			266,023
Total in Miles.			50.23
<u>MULTAN ZONE.</u>			
1	Trimmu Division	Right Marginal Bund	54,000
2	-do-	Left Marginal Bund	46,000
3	Sulemanki Division	Left Marginal Bund	47,500
4	-do-	Right Marginal Bund	63,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	48,000
6	-do-	Akbar Flood Bund	21,710
Total in feet.			280,210
Total in Miles.			53.07
<u>D.G.KHAN ZONE</u>			
1	Taunsa Barrage	Right First Defence Bund	23,500
2	-do-	Left Marginal Bund	133,200
3	-do-	Shahwala Groyne	66,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	188000
5	-do-	Doaba Flood Bund.	19000
6	-do-	Khangarh Flood Bund	153,000
7	-do-	Shehr Sultan Flood Bund	134000
8	Jampur Construction Division	Jampur Flood Bund	170720
9	-do-	Laskani Flood Bund	26365
Total in feet.			913,785

Total in miles			173.06
LBDC(IP)			
1	Balloki Head works Division	Left Marginal Bund	28,350
2	do	Right Marginal Bund	26,500
Total in Feet			54,850
Total in miles			10.38
LAHORE ZONE			
1	FLOOD Bund Division Narowal	Jassar Highway Bund	20,000
2	do	Rayya flood Bund	40,000
3	Pasrur Link Division Sialkot	City Flood Protection Bund along Aik Nullah	7,340
4	do	Hajoipur Flood Protection Bund along Aik Nullah	86,00
5	do	Left Flood Protection Bund over deg Nullah from defence embankment to Zafarwala Kingra road	11,250
6	Marala Division UCC	Left Marginal Bund	68,639
7	do	Right Marginal Bund	6316
8	Lahore Drainage Div.	Shahdara Flood Protection Bund	15,750
Total in Feet			169,295
Total in miles			32
Grand total in miles			

INFORMATION REGARDING FLOOD BUND CATEGORY B

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

MULTAN ZONE

1	Trimmu Division	-do-	80,000
2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	Total in feet.		190,000
	Total in miles		35.98

D.G.KHAN ZONE

1	Taunsa Barrage	-do-	80,000
2	Kot Adu Canal Division	-do-	90,000
3	Muzaffargarh Canal Division	-do-	180,000
4	River Diversion Division	-do-	80,000
5	Jampur Construction Division	-do-	140,000
6	D.G.Khan Construction Division	-do-	60,000
	Total in feet.		630,000
	Total in miles		119.32

LBDC (IP)

1	Balloki Headworks Division	-do-	40,000
2	Okara Division	-do-	40,000
3	Sahiwal Division	-do-	20,000
	Total in feet.		100,000
	Total in miles		18.94

LAHORE ZONE

1	Flood Bund Division Narowal	-do-	40,000
2	Pasrur Link Division Sialkot	-do-	10,000
3	Chakbandi Division	-do-	20,000
4	Marala Division UCC	-do-	50,000
5	Lahore Drainage Division	-do-	80,000
6	Kasur Division	-do-	80,000
7	Gujranwala UCC	-do-	100,000
8	Rachna Drainage	-do-	42,000
	Total in feet.		422,000
	Total in miles		79.92

PMO BARRAGES

1	Jinnah Barrage	-do-	20,000
	Total in feet.		20,000
	Total in miles		3.79

Grand Total (in miles) 350.76

ANNEX XIV: RIVER DISCHARGE RATES

River	Gauge Site	Designed Capacity (lac Cs)	Flood Limits in Lac Cs.				Exp. High
			Low	Med:	High	Very High	
INDUS	Kalabagh	9.5	2.5	3.75	5	6.5	8
	Chashma	9.5	2.5	3.75	5	6.5	8
	Taunsa	10	2.5	3.75	5	6.5	8
JHELUM	Kohala	12	1	1.5	2	3	4
CHENAB	Mangla	10.6	0.75	1.1	1.5	2.25	3
	Rasul	8.5	0.75	1.1	1.5	2.25	3
	Marala	11	1	1.5	2	4	6
	Khanki	11	1	1.5	2	4	6
	Qadirabad	9	1	1.5	2	4	6
	Trimmu	8.75	1.5	2	3	4.5	6
RAVI	Punjnad	7	1.5	2	3	4.5	6
	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4.25	0.4	0.65	0.9	1.35	1.8
SUTLEJ	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
SUTLEJ	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.