

DISTRICT DISASTER MANAGEMENT PLAN 2018

Division: Rawalpindi

District: Rawalpindi



APP41-20
RAWALPINDI: December 20 – Firefighters struggling to extinguish fire that engulfs the whole six-story commercial building Ghakkar Plaza resulting one person killed and five injured
APP photo by Abid Zia

Ghakkar Plaza Fire in 2008



Flash Flood in 2001



Benazir Bhutto's assassination and bomb blasts at Rawalpindi

Benazir Assassination Blast in 2007



Marriat Hotel Suicide Blast 2008

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Approved by: Deputy Commissioner, Rawalpindi



Municipal Corporation, Local Government
Rawalpindi

TABLE OF CONTENTS

Table of Contents

Executive Summary	1
Aim and Objectives	2
District Profile	3
Coordination Mechanism	12
Risk Analysis	21
Mitigation Strategy	26
Early Warning	28
Rescue Strategy	30
Humanitarian Assistance	31
Annex I: Identified sites for displaced persons	34
Annex II: List of hazard prone villages/ Revenue Estate (NAMES Required)	51
Annex III: List of Health Facilities and their vulnerability to Hazards	52
Annex IV: List of vulnerable Educational institutions	57
Annex V: List of Industries with their risk level	60
Annex VI: List of NGO working in the District	61
Annex VII: Contact list of main stakeholders / departments	63
Annex VIII: List of volunteers	64
Annex IX: Political Constituencies	73
Annex XI: Data Collection Performas	75
Annex XII: Camp Management SOPs	78
Annex XIII: Flood Bunds	79
Annex XIV: River Discharge Rates	82
Annex XV: List of Basic Terms	83

.XX

Estimated number people risk of **earthquake** 2018



of total population

Risk: High

XX

Estimated number of people at risk of **floods** 2018



of total population

Risk: High

XX

Estimated number of people at risk of **Epidemic** in 2018

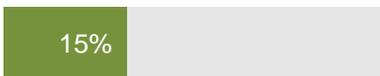


of total population

Risk: Medium

XX

Estimated number of people at risk of **Landslide** in 2018



of total population

Risk: Low

Executive Summary

Rawalpindi District having population of about 5.5 Millions comprises of 08 Towns namely Rawal Town, Potohar Town, Kahuta, Gujjar Khan, Murree, Kotli Sattiyan, Taxilla & Kallar Sayedan and 119 Union Councils. The climate of Rawalpindi is classified as “Subtropical triple season moderate climate zone” which is characterized by single rainfall season from July to September. The total rainfall during the rainy season is about 600 ml accounting of 60% of the annual rainfall of about 1000 ml. From 1950 to 2017 the flood water level has risen to alert level 19 times which shows an average of one flood per 3 years. An unprecedented flood of high magnitude of 2001 caused 74 human casualties, partial or complete damage of 3000 houses and also disrupted services like water supply, power supply and communication system.

Aim and Objectives

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

The main objectives of the plan include:

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

District Profile

Socio-Economic Indicators (Average)

S.No.	Particulars	Numbers
1.	Population	5.5 million
2.	No. of Tehsils	7
3.	No. of UCs	119
4.	No. of Revenue Estates	45
5.	Population Density (people per km ²)	910
6.	Family Size	5 to 6
7.	Pop Growth Rate	2.75%
8.	PCI	7,765 PKR per month
9.	District GDP/Annual Income	54169600
10.	Poverty Rate	7.34 %
11.	Patient/Doctor Ratio	35:1
12.	AMR	28.3 %
13.	IMR	23 per 1000 Live Births
14.	MMR	97 per 10,000 Live Births
15.	Literacy Rate	81%
16.	Global Acute Malnutrition (GAM) rate	23.1%
17.	Severe Acute Malnutrition (SAM) rate	6.1 %
18.	Percentage of population having access to clean drinking water	17%
19.	Annual Crime	17,291(2015 Figures)

Population

Total	Male (above 18)	Female (above 18)	Minor (M) (less than 18)	Minor (F) (less than 18)	Vulnerable People (PLWs, disabled, aged)
5,405,633	1,567,633	1,513,577	1,189,239	1,135,182	6.9%

Source/Note: DO Population

Number of Dwelling Units	Kaccha (Mud/clay)	Pakka (Bricks & Morter)
521035	52103	468932

Source/Note: Bureau of Statistic Punjab Misc. 2011

Area (in acres)

Total Area of District in Km ²	Area under cultivation	Cultivation in Settled Area	Cultivation in Baid Area
5,286	2387		

Literacy Rate

Overall	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
81%	40%	60%	38%	62%	39%	61%

Source/Note: District Education Officer(Literacy) Rawalpindi

Government Schools

		Schools	Enrollment
Total/ Overall		1648	
Boys	Primary	455	80%
	Middle	127	75%
	High	220	88469
Girls	Primary	472	59090
	Middle	179	38889
	High	195	108128
Co-Education	Primary		
	Middle		
	High		
Special Education			

Private Schools

		Schools	Enrollment
Total/ Overall		1940	
Boys	Primary		
	Middle	300	90%
	High	200	88%
Girls	Primary		
	Middle	200	95%
	High	199	90%
Co-Education	Primary	900	98%
	Middle	141	90%
	High		
Special Education			

Higher/Technical/Professional Education (Public & Private)

Particulars	College	Universities	Professional	Technical	Commerce	Total
No of Institution	113	2	1	18	33	167
No of Students	38,962	6,200	1,550	4,729	8,719	60,160

Health Facilities

Particulars	Primary	Secondary	Tertiary	Private Hospital	Total
No. of Facilities	118	6	5		
Annual OPDs	1,881,517	4,346,144	3,228,344		
No of beds	160	2,544	2,222		
Doctors Available	105	5			
Paramedical staff	1424	360			
Ambulances available	Nil (Rescue 1122)	Nil (Rescue 1122)	Nil (Rescue 1122)		

Livestock: Small Animals (goats, sheep etc.): 317476 Big Animals (cows, buffalos, camel etc.) 438807

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

Agriculture	Livestock	Poultry	Fish Farming	Services (Public & Pvt)	Business	Expatriates	Industrial Labor	Skilled Labor	Unskilled Daily Labor	General Labor
32 %	20 %	7 %	1 %	22%	14%	0.5%	7%	%	%	11%

Disaster History - Floods (since 1970)

S#	Year	No. of people affected	No. of deaths	No. of Revenue Estates affected	Houses Damaged (Partially)	Houses Damaged (Fully)	Compensation Paid (Rs.)	Financial Impact (including infrastructure damaged)
1	2001	4500	74		3,000			
2	2010							
3	2011							
4	2012							
5	2013	8	1					
6	2014	96	0					
7	2015	18	9					

Disaster History – Other disasters (since 1970)

S#	Year	Disaster Type	No. of people affected	No. of deaths	Remarks
1	1992	Torrential rains	60	Nil	Bridge at Azad Patan was destructed due to heavy rains and there was land sliding in village Narar Tehsil Kahuta
2	2005	Earthquake			
3	2010	Plan Crash		152	
4	2012	Plan Crash		126	
5	2012	Torrential rains		02 No	Two persons drowned in a Nullah at Farooq Colony Kahuta Town.
6	2013	Fire Incident	01	Nil	One shop completely burnt and destroyed.
7	2015	Torrential rains		03 No	Due to collapse of roof.
8	2016	Torrential rains	25	Nil	Due to land sliding on Azad Patan road and collapse of houses.

General Information

Particulars	Detail
Neighboring districts and their vulnerabilities	Attock, Jhelum, Chakwal
Topographical Features	
Weather/Climate pattern	Max Temperature 45 °C and Minimum Temperature 6 °C Storms → Nil Snowfall in Murree only.
Major Rivers	Jhelum River Sawan River
Major Nullahs / Streams	River Jhelum, Lai Nullah+Trbutries, Korang Nullah. Lai Nullah is 30km long out of which 17km passes through Rawalpindi.
Motorway/Highway	Vulnerable points of motorway/highway: Tarnol, Murree Expressway, T Chowk, Trait at RMK Road
Railways	Vulnerable points of Railway: Rawalpindi, Rawal Town and Chaklala
Geological features	e.g. fault line, mountainous areas etc.: Margallah Hills, entire district on fault line.

Dams (including small dams)

Name of Dam	Location	GPS Coordinates	Capacity	High Flood Level	Critical Points, if any	Remarks
Rawal Dam	The Rawal Dam is sited across Korang River near Rawal Village a distance of about 9 Miles from Rawalpindi along Pindi Murree Road.		43915			
Dhok Sanday Mar Dam	The dam site is near Ternol sangjani at South of Rawalpindi Peshawar G.T.Road		651			
Misriot Dam	The dam site is near Misriot village 7 milles south west of Rawalpindi.		560			
Nirali dam	It is at a distance of about & miles from Daultala Railway Station.		682			
Dungi dam	The dam site is located on Hachiara Nallah a tributary of River in Gujar Khan Tahsil of Rawalpindi District.		1760			
Khasala Dam	The dam is situated at about 17 miles from Rawalpindi on Rawalpindin Chuntra Road on a stream called Khasala Kas.		2415			
Jawa Dam	The dam site is located on Rawalpindi Chauntra Road		1575			
Sipiala Dam	The dam site is near Kanial village on sapiala Kas Tehsil Fateh Jang, District Attock.		568			
Ratti Kassi dam	The Dam site is near Ratti Kassi village about 40 Km North West of Fateh Jang town of District Attock.		1950			
Kanjoor	The dam site is about 29 Km west of Tehsil Fateh Jang, Khur road on Kanjoor Kas District Attock		2835			
Chhanni Bor Dam	Dam site is near Khuda Chowk village about 40 K.M North west of Fateh Jang town of District Attock.		1958			
Qibla Bandi Dam	Dam site is located about 6 miles to east of Hazro District Attack. Site is 3.5 miles away from Barazza village which is 4 miles from Hazro town and approachable through Hazro Tarbela Road.		1820			
Shahpur Dam	Shahpur Dam is located just outside capital area of Islamabad about 5 miles North of Fateh Jang on		14320			

	Nandna Kas in District Attock.				
Mirwal dam	Dam site is located is near Mirwal village about 42 KM to west of Fateh Jang Town on Dotal Kas of river sil known as Durbran Kass.		3765		
Jabbi Dam	The dam site is near village Dhok Gidran about 12 Km South East of Pind sultani on Jabbi Kas in Distt. Attock.		2702		
Shakar Dara Dam	The dam site is cited across Shakardara Kass a tributary of Haro River near village Dheri Lagal about 14 Km south west of District Attock.		5679		
Basal dam	The dam site is located near Basal village Tehsil Pindi Gheb District Attock.		1687		
New Dhok Tahlian dam	27 Km south-east of Chakwal.		1808		
Gurabh dam	15 Km from Talagang on Khushab road.		679		
Dhurnal dam	55 Km from Talagang on Mianwali Road.		1380		
Khokhar zer dam	20 Km south of Chakwal on Chakwal - Choa saiden Shah road.		3312		
Walana dam	44 Km west of Chakwal Town.		2193		
Surla Dam	20 Km south of Chakwal on Chakwal - Choa saiden Shah road.		1905		
Bhugtal dam	40 Km south of Talagang		1140		
Nikka dam	35 Km south of Chakwal on Khuhab Road.		1248		
Dhok Qutab Din dam	About 40 Km south-east near Khok Qutab Din.		1737		
Kot Raja Dam	About 25 Km south-east of Chakwal District Chakwal.		2844		
Pira Fatehal Dam	Near Jhatla about 20 Km south west of Talagang.		7400		
Garat dam	Dam site located west side Dina town Distt: Jhelum		2228		
Jammargal dam	Dam site is near Jammargal village about 50 K.M south west of Distt: Jhelum.		2432		
Tain Pura I	Dam site is near ratwal railway station about 6 K.M. north west of Dina Town District Jhelum.		5941		
Tain Pura II	Dam site is near ratwal railway station about 6 K.M. north west of Dina Town District Jhelum.		3395		
Mial Dam	45 Km from Talagang on Mianwali Road near village Mial.		3200		

Lehri Dam	Site is located at Patha Wala Kas at a distance of 15 K.M.S in Tehsil noth east of Dina Town Tehsil: Dina Distt: Jhelum.		5705			
Jamal Dam	Site is located at Ranjali Kas Near Jamal and Magot village Tehsil: Gujer Khan Distt: Rawalpindi.		1860			
Salial Dam	Site is located at Local Kas, Tributory of Basali Nullah Salial Kas about 40 K.M in siouth west of Dina Tehsil: Sohawa Distt: Jhelum.		527			
Thatti Syedan Dam	Site is located at Dotal Kas near Thatti sydan vellage Tehsil: Pindi Gheb Distt: Attock.		600			
Sawal Dam	Site is located at Sawal Kas near Dhok Sawal of Katerial vellage Tehsil: Pindi Gheb Distt: Attock.		2400			
Talikna Dam	Site is located at Talikna wala Nullah near Chakwal & Basal vellage Tehsil: Jand Distt: Attock.		2050			
Jaba Dam	Site is located at Rashi Nullah near Dhgok Fateh Khan Tehsil: Jand Distt: Attock.		860			
Jalwal Dam	Site is located at sankhi Kas about 3 Km from vellage Tehsil: Jand Distt: Attock.		5000			
Khai Dam	Site is located at Sauj Nullah near village Khai Tehsil: Distt: Chakwal.		5920			
Ghazial Dam	Site is located at Pinaiala Nullah near Ghazial dam village Teh:Distt:Chakwal.		2000			
Domeli Dam	Site is located at Junc tion Point of Nili Pamal nullah near vellage Domeli Teh: Sohawa Distt: Jhelum.		8690			
Gurrah Uttam Singh Dam	Dam site is situated at about 25 Kms South west from Domeli Town and 75 Km from Jhelum City, Tehsil & District Jhelum.		2679			
Shah Habib Dam	Dam site is situated at 2 Km South west of Jammergal village, 55 Km from Jhelum City, Tehsil & District Jhelum.		1655			
Phalina Dam	Dam Site is situated at 9 Km north east of Mandra Town, Tehsil Gujer Khan District Rawalpindi.		3900			
Fatehpur Dam	Dam site is situated at 34 Km south west of Domeli		1733			

	Town and 84 Km from Jhelum City, District Jhelum.					
Dhrabi Dam	Tehsil site is located at Dharabi Kas near village Balkassar, Teh, and District Chakwal.		37000			
Ugahun	Located at a distance of about 13.0 Km west of Gujar Khan town District Rawalpindi of Krumb Nullah, a tributary of Kanshi River.		2000			
Dhok Hum	Dam site is located near village Chowkhandi in Tehsil Talagang, District Chakwal.		8100			
Mundee dam	Dam site is located near village Mundi in Tehsil & District Chakwal.		8000			
Dhok Jhang	Dam site is located near village Ban Amir Khatoon about 30 Km from Chakwal City on Chakwal- Choa saiden Shah road in Tehsil & District Chakwal.		450			
Uthwal / lakhwal	Dam site is located near village Uthwal / Lakhwal about 25 Km from Chakwal City on Chakwal- Nila Dulla Road in Tehsil & District Chakwal.		2650			

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
					X: Y:	
					X: Y:	

Breaching Section

Name of Bund/ Embankment	Name of Breaching Section	Location with GPS Coordinates	Likely Affected Population			Likely Affected Revenue Estate	Remarks
			Male	Female	Children		
		X: Y:					
		X: Y:					
		X: Y:					

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

Name	Capacity	GPS Coordinates	Name	Capacity	GPS Coordinates
132 KV Adyala	T-1	31.5/40	132 KV Chakri	T-1	20/26
	T-2	31.5/40		T-2	
	T-3	20/26		T-3	
132 KV Cantt	T-1	31.5/40	132 KV Sowar	T-1	20/26
	T-2	20/26		T-2	20/26
	T-3	31.5/40		T-3	
132 KV Chaklala	T-1	31.5/40	132 KV Tarnol	T-1	20/26
	T-2	20/26		T-2	10/13
	T-3	31.5/40		T-3	10/13
				T-4	20/26

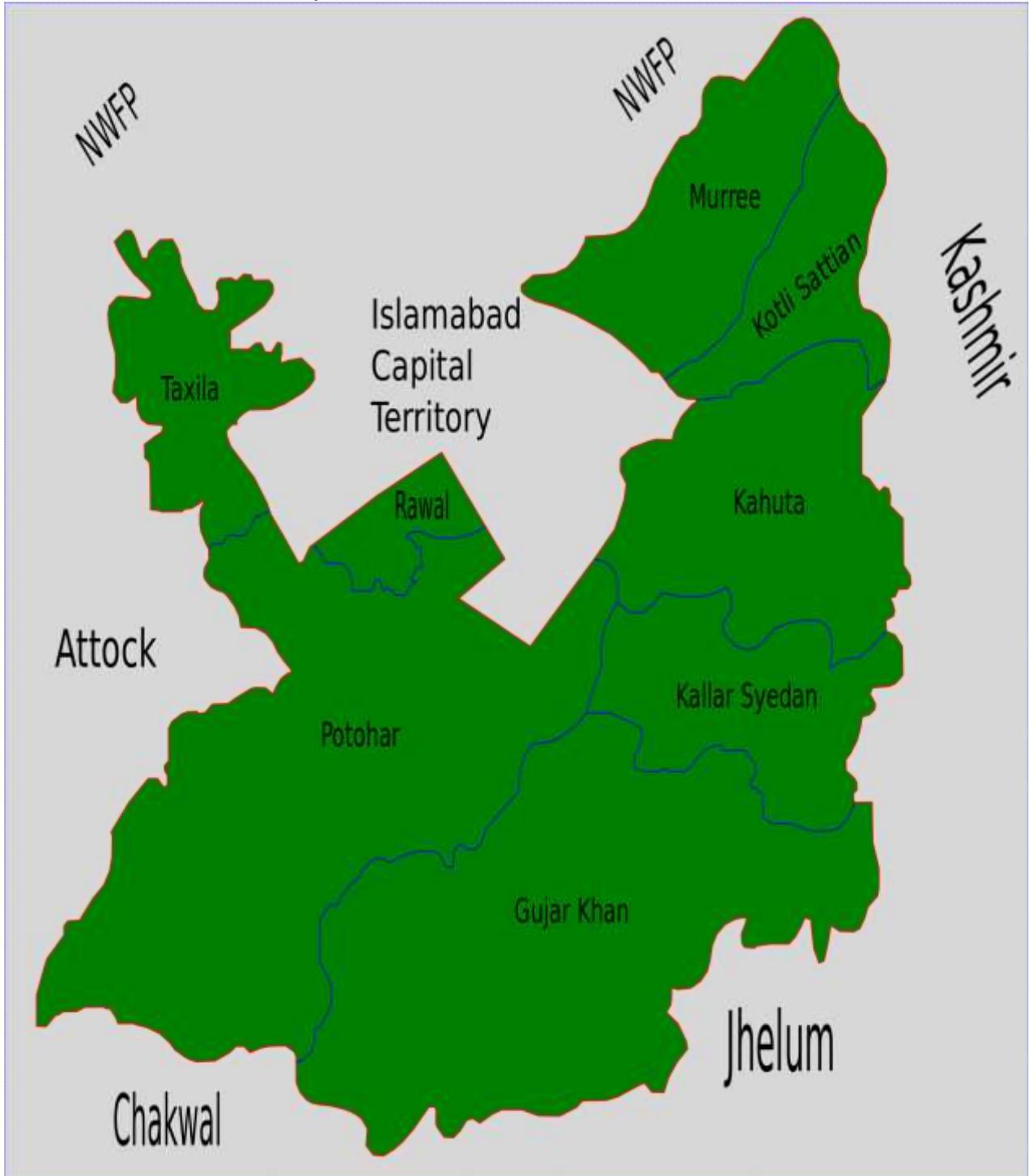
Airport / Landing Strips

Type	Area Name	GPS Coordinates
Islamabad Air Port	Air Port Road, Islamabad	X: 33°36'58.00 Y: 7360.50
Qasim Base	Qasim Base	X: 33°33'40. Y: 73156.00
Hellipad	Ground of Royalson Hotel, GT Road, Taxilla.	X: 33 44. 022. N Y: 72 48.17' E

Govt. storage facilities/warehouses in the district

Facility Type	Capacity (M. Tons)ip	Location with GPS Coordinates
Islamabad I (26 Godowns)	26357.4	Secotr I-11/4, Islamabad
Islamabad II (10 Godowns)	49000	Secotr I-11/4, Islamabad
Islamabad III (11 Godowns)	44414.4	Secotr I-11/4, Islamabad
Bins Rawalpindi (32 Godowns)	34205	Tipu Road, Rawalpindi
Gujjark Khan (15 Godowns)	13500	Near Railway Phtak, Gujjar Khan
Sihala (9 Godowns)	10000	Near Railway Station, Sihala.
Kahuta (4 Godowns)	3400	Mator Road, Kahuta
Wah Cantt (3 Godowns)	3000	Near Barriar No. 2, Wah Cantt.
Taxilla (3 Godowns)	3500	Near Raiway Station, TAxilla.

District Baseline/Reference Map



Source:

Coordination Mechanism

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

The initial information/advisory about rainfall is issued from Met Office. The information is later disseminated through Flood Control Room to High Authorities as well as all stakeholders. If water level rises upto critical level, the alert and evacuation siren are blown accordingly for residents living in low laying areas.

- In case of major disaster a pre-planned Flood command and Control Center (C.C.C) will be activated immediately within TMA Building.
- Rescue 1122 starts evacuation of trapped victims along with volunteers of Civil Defence to Relieve Camps.
- Police also helps in evacuation process besides maintaining Law and Order in inundation areas.
- The relief camps are established at various areas in schools in collaboration with education, health, Civil Defence & Revenue Department.
- Rescue 1122 will also carry out triage of victims at site and shift critical victims to hospitals.
- A request for blood donation and volunteers will be launched on media through hospitals.
- Routine / non-serious patients will not be entertained in ER.
- Information regarding current No. of patients and vacant beds in hospital will be updated by hospital administration.
- A record of all casualties / deaths will be kept along their names, address, type of injury and ward in shape of a flow chart.
- All casualties of the disaster will be tagged with a specified I.D.
- Only an Official spokesperson will give information to the relatives and media.

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 Deputy Commissioner should ensure that the following measures and steps have been taken:

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

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

Checklist for Revenue Department:

- Survey of entire District (Preparation of Village level information by Patwari)
- Identification of Low lying, medium and high: vulnerability levels with flood level
- Liaison of Patwari with Numberdars of their respective villages
- Contacts of all revenue staff posted near river belts and their output in 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

Tehsil / Town Municipal Administration (TMA)

- Tehsil / Town Municipal Administration (TMA) plays an important role of providing municipal services in the district including clean drinking water, sanitation facilities, maintenance of parks and removal of encroachment etc.
- Tehsil / Town Municipal Administration TMA will provide assistance to the District Government for setting up and management of relief camps/ operations.
- TMAs are responsible for provision & restoration of water and sanitation facilities in their municipalities besides disposal of waste or rain water/sewerage.
- TMAs 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.
- TMAs sanitary workers can be employed for cleaning relief camps, or other such areas which has been affected by any disaster.

- TMAs employ de-watering sets to remove excess water. All TMAs are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The TMA maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- TMA 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 TMA under the concerned Administrator i.e ADC/AC will assist in the migration of the affected people.
- During the relief effort and subsequent rehabilitation effort the, the local TMAs 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 D.C. The office of the D.C fully supported by the DPO and line departments such as Health, Agriculture, Livestock, Civil Defence, 1122, TMAs 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 TMAs.
- On receipt of a flood warning, immediate warning will be conveyed to all the concerned officers. Immediate action will be taken in each sector / sub sector for evacuation of the population from risk prone areas to safer places or to Relief Camps. An Assistant Commissioner will ensure that announcements are made through loudspeakers of the mosques utilizing the services of the Revenue department. Each Patwari will inform the Numbardar, Headmaster of the School, Imam Masjid and councillors to make announcements etc.
- The tactical operations would be headed by the Additional Deputy Commissioner. The Additional Deputy Commissioner would be responsible for coordinating and supervising the disaster control and relief measures in the district.
- Provincial government had notified the following composition of DDMA's for whole of the province:
 - i. **Deputy Commissioner (Chairperson)**
 - ii. District Police Officer
 - iii. Additional Deputy Commissioner
 - iv. Two Elected Representatives to be nominated by the Chair
 - v. Representative of Pak Army
 - vi. Two Representatives of NGOs/Civil Society to be nominated by the Chair
 - vii. Additional Deputy Commissioner (Coordination)
 - viii. Executive District Officer (F&P)

- ix. Executive District Officer (Works & Services)
 - x. Chief Executive Officer (District Health Authority)
 - xi. Chief Executive Officer (District Education Authority)
 - xii. Director Local Government
 - xiii. SP Special Branch
 - xiv. XEN Irrigation / Public Health
 - xv. Civil Defence Officer
 - xvi. Administrators of Tehsil Municipal Administrations
 - xvii. All Tehsil Municipal Officers 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 Government
- District Governments must establish a Disaster / Flood Control Room at the Deputy Commissioner'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 Government would immediately mobilize the equipment needed to tackle the challenges created by a disaster. The Local Governments will provide a comprehensive list of flood fighting equipment to PDMA as part of their flood contingency plans.
 - Chief Executive Officer (DHA) 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.
 - Director (Agriculture) and 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)**Checklist for Control Room:**

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

Checklist for Relief Camp Incharge:

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

Role of Health Department

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

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

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

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

Civil-Military Coordination Mechanism

To meet the flood situation successfully, Army shall be deployed along banks of Lai Nullah upon formal requisition of by the D.C on request of District Emergency Officer, Rescue 1122, Rawalpindi 02 Army Units are likely to be deployed for relief operation in case of any emergency; Army will establish Control Center at Headquarters 111 Independent Infantry Brigade, Westridge Rawalpindi. This Center with the following

contact No. will assist the Civilian Authorities in relief operations and restoration of services in the areas of emergency.

Tel No. 0561-32052

Fax No. 0561-31138

Focal Person: 0334-4491945

Volunteer Network

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

There are 237 volunteers registered with the Civil Defense. The Civil Defence Officer remain continuous in touch with the volunteer by means of their participation in different training programs conducted for their capacity buildings and in different events (National & International). In case of disaster already designated Team Leader is contacted first, who subsequently disseminate the same information to all team members for coordinated response.

Risk Analysis

1. Potential hazards of the district

Hazards	Likelihood (Score 1-5)	Impact (Score 1-5)	Risk
Floods			
Urban Flooding	3	3	9
Flash Floods	4	4	16
ill Torrent			
Glacial Lake Outburst Flood (GLOF)			
Landslide	3	2	6
Tornado			
Earthquake	3	3	9
Drought			
Epidemic	4	4	16
Fire Incidents	3	3	9
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	2	2	4
Environmental Hazards (industrial accidents, severe pollution etc.)			

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*
- Experience has shown that abnormal heavy rains in catchment areas result in flash floods in Lai Nullah especially in 2001, 2010, 2011, 2012, 2014 and 2015. Though the flood water recedes within a period of 3-8 hours, it causes considerable damage in the city area. Local drains from Chah Sultan and Cantonment area also fall in it which further aggravates the situation, especially when these drains cannot find their way into Nullah Lai which is already in flood, causing inundation of surrounding low lying areas (back water effect).

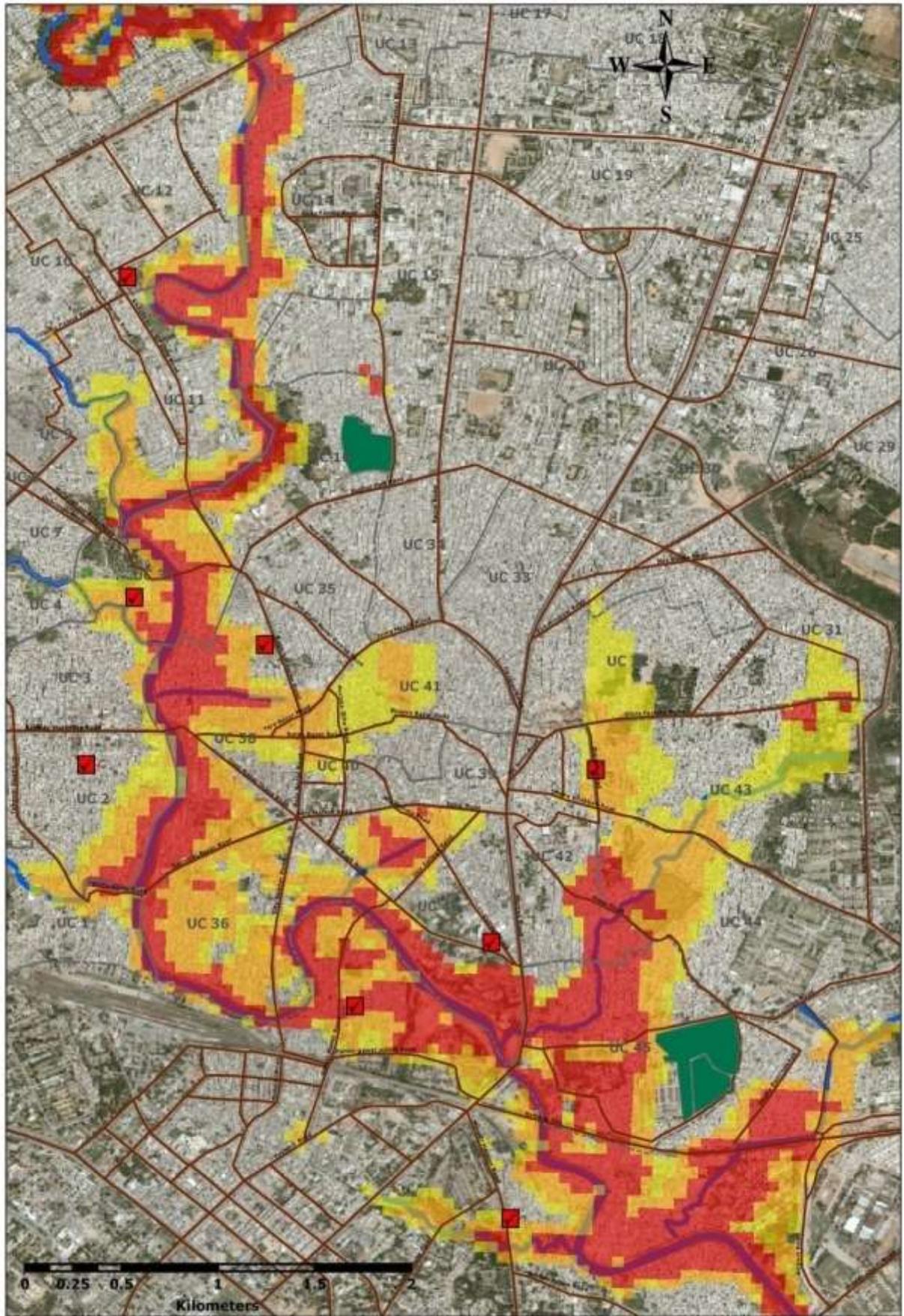
Flash Flood urban flood due to Lai Nullah is being planned every year for medium and high risk. The potential sites/vulnerable areas have been pointed out across the board.

- Dhoke Naju
- Zain-ul-Haq Colony
- Both sides of Bridge at Ratta.
- Bhoosa Godown
- Mohanpura Neae Jinnah Road Bridge.
- Javaid Colony, Tipu Road, Chamanzer Colony, Nadeem Colony.
- Dhoke Chiragh Din
- Mohallah Raja Sultan
- New phagwari
- Mohallah Raja Sultan
- Gawalmandi.
- Dhoke Ellahi Buksh.

Mainly heavy rainfall during monsoon season is the main triggering factor for urban flash flooding along with contributing factors of throwing of garbage in the main stream of Lia Nullah as well as in tributaries of nearby vulnerable areas.

✓

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



Source:

3. Response & Operational Capacity

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

District Government has the following response capacities.

1. Local Government, Rawalpindi
2. Rescue 1122
3. Monitoring Control System (in control of Rescue 1122)
4. 6 Rain fall Gages (in control of PMD)
5. 10 Warning posts for blowing sirens (in control of Rescue 1122)
6. Water level gauges (PMD)
7. Master Control Room (PMD)
8. Water and Sanitation Agency (WASA)
9. Rawalpindi Waste Management Company

4. Strategic Reserves

Items	Available	Functional	Non-Functional	Extra Demand
Boats	19	YES		
OBM	19	YES		
De-watering sets	22	YES		
Navigators	Nil			05
Life Jackets	710	YES		
Life Ring	43	YES		
Life Lines	28	YES		
Scuba diving suit with complete accessories	06	YES		
First Aid Kits	50	YES		
Rescue Bag	20	YES		
Safety Harnesses	20	YES		
Ambulances	51	YES		
Fire Brigade	27	YES		
Water Tanks / Bouzers	30	YES		
Extendable Ladders	14	YES		
Hydraulic Cutter	04	YES		
Sonar Rader	01	YES		
Jumping Sheet / Jumping Bags	04	Yes		
Dumpers/Mini Trucks	17	YES		
Excavators	1	YES		
Cranes	01	YES		
Bulldozer	2	YES		
Boat Carrier/Trolleys	12	YES		
Pickups/Jeeps/4x4 vehicles/Mini Trucks	56	YES		
Searchlight	15	YES		
Tent	33	YES		
Mosquito Net	30	YES		
Plastic Mat	30	YES		
Blanket	NIL			50
Generator Sets	04	YES		
Gas-Cutters	1	YES		
Scuba Diving Set	06	YES		
Floating Rope	10	YES		

5. Gaps and Constraints

- Briefly outline the capacity gaps in the provision of rescue and response;
- Describe major obstacles to providing humanitarian assistance (security, access constraints, administrative obstacles, logistics, etc.)
- There is dire need for capacity building of Rescue 1122 staff in terms of diving training and equipment provision. The PDMA should take lead role in above mentioned activities. Small inflatable Boats (10Nos) and SCUBA diving sets may be provided on immediate basis.
- Nullah Lai is passing through the main city. The house around the encashment area of Nullah Lai is the main constraints for the mitigation of the losses of disasters.
- Cleaning and Desilting of Nullah Lai and its tributaries is also the main hurdle for the mitigation of the losses of disasters in case of flash flood.
- Installation of barbed wire along Lai Nullah where it is pissing close to residential areas.

Mitigation Strategy

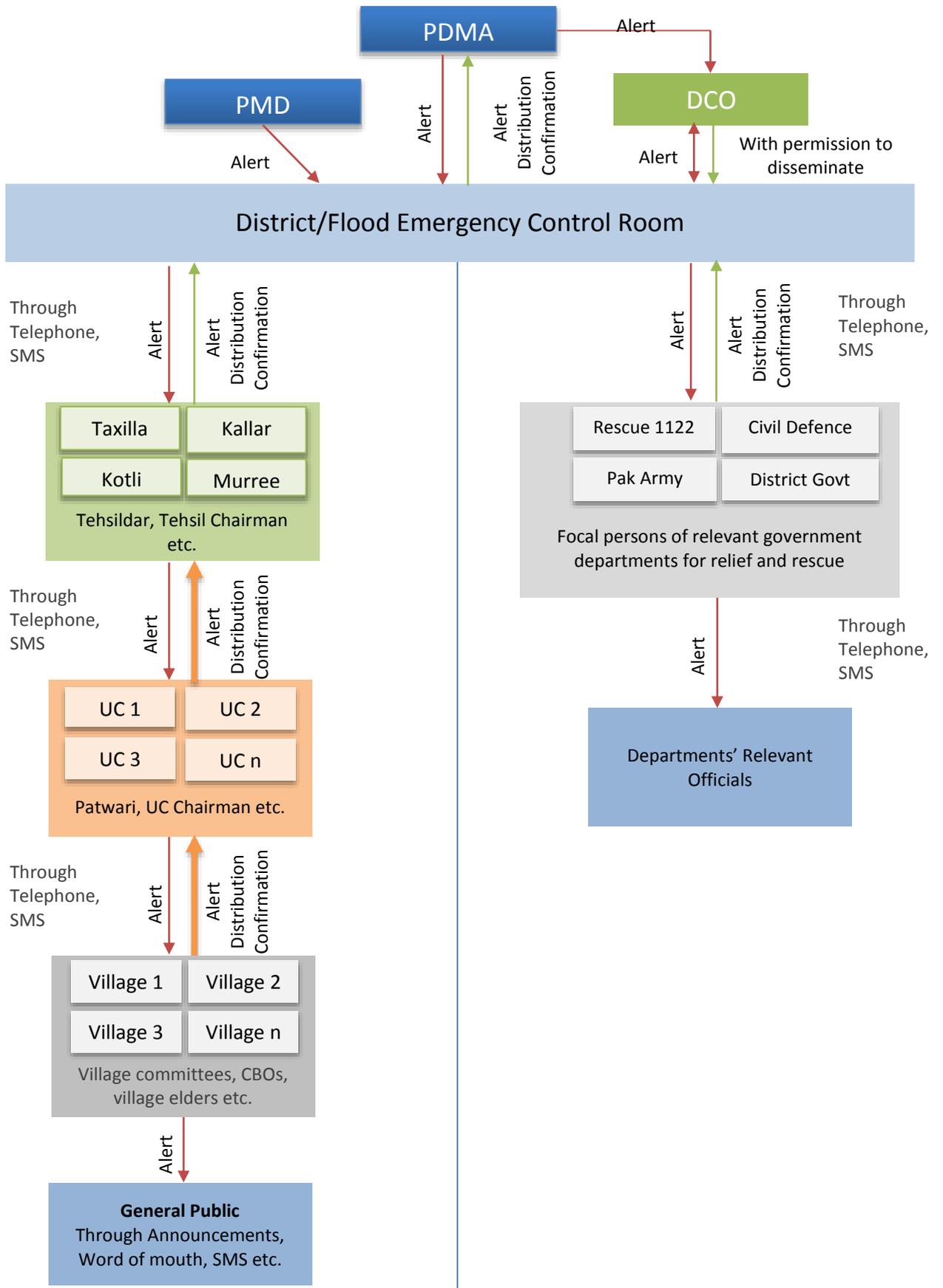
- ✓ Briefly describe what measure could be taken to reduce the impact of the potential disasters.
- ✓ Strategic pre-positioning of available relief stocks
- ✓ Public education and community awareness

Hazards	Mitigate Actions	Responsible Department
Urban Flooding Flash Floods	An awareness campaign regarding different measures to meet the flood situation i.e. Nullah Lai and its tributaries, details of low lying areas, Flood Forecasting and Warning System, Hazards Map, Detail of Flood Relief Centers/ Evacuation Centers, Evacuation Procedure and other preventive and precautionary measures etc. has been scheduled. A Flood evacuation drill/Mock exercise shall be conducted under the supervision of District Coordination Officer, Rawalpindi with the collaboration of Met Department, Islamabad before monsoon season.	Rescue 1122 WASA RWMC Civil Defence Health Education Police Army
Landslide	<ul style="list-style-type: none"> ➤ Plantation ➤ Establishment of retaining walls 	Rescue 1122 NHA Provincial Highways Forest Department
Earthquake	<ul style="list-style-type: none"> ➤ Implemnetation of Buildings Bylaws ➤ Enforcement of Building Bylowas 	Rescue 1122 TMA RDA Cantt Board
Epidemic	<ul style="list-style-type: none"> ➤ Survey of most effected areas for larva detection. ➤ Removal of stagnant water 	Health Civil Defence

	<ul style="list-style-type: none"> ➤ Distribution of awareness pamphlets ➤ Mounting of banners and streamers 	Education Rawalpindi Cantonment Board
Fire Incidents	<ul style="list-style-type: none"> ➤ Implementation of Fire Safety measures ➤ Strict Monitoring 	Rescue 1122 Fire Brigade Local Govt. Fire Brigade, Cantonment Board Fire Brigade, Civil Aviation
Other Major Accidents (Building Collapse, road traffic accidents, train accident, Stampede, plane crash)	<ul style="list-style-type: none"> ➤ Speedy response to RTAs, ➤ Black spot identification ➤ District Emergency Board meeting ➤ Effective Implementation of decisions of DEB /DDMA 	Rescue 1122 Fire Brigade Local Govt. Fire Brigade, Cantonment Board
Environmental Hazards (industrial accidents, severe pollution etc.)	<ul style="list-style-type: none"> ➤ Black spot identification ➤ District Emergency Board meeting ➤ Effective Implementation of decisions of DEB /DDMA 	Rescue 1122 Environment & Enterprise

Early Warning

Information Flow Diagram



Alertness Levels

Following four levels alertness have been established:

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

Early Warning

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

Who is the focal person at district level?

Functions of District/Tehsil Emergency Control Rooms in early warning

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

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

Flood Forecasting and Early Warning System (FF& EW)

Flood Forecasting and Early Warning System (FF& EW) has been established along Lai Nullah in collaboration with Govt of Japan (JICA). Master control Room which is controlled by Met office issues forecast information to Flood Control Room. Rescue 1122 is looking after Flood control Room and that disseminate area on alerts to residents living in vulnerable areas.

District Emergency Control Room disseminate immunity flood information to residents of low lying areas by blowing risers which are installed along Lai Nallah District Control Room also plays role coordination & Communication along all stakeholders.

After receiving information of pre alert through District Flood control Room, all the relevant stakeholders are part on high alert and their team start deployment in highly vulnerable low lying areas.

DISASTER PREVENTION CONTROL CENTRE (DPCC)

A Central Flood Control Centre has been established at TMA building, Liaquat Road, Rawalpindi under the command of Deputy Commissioner & with the assistance of District Emergency Officer, Rescue 1122. This Control Room shall be the source of dissemination of information to the concerned departments and will also act as Operation Centre for coordinating all response activities. All the concerned departments / emergency service

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.*

The flood control measures described in this plan shall be put into effect on receipt of Pre-Alert Warning Phase. The entire administrative set up i.e. Machinery, Equipment, and staff of the Local Government Administration shall be immediately mobilized along banks of Lai Nullah.

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*

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

The Priority needs of affected people flood and earthquake (food, shelter, health etc.) is determined by taking recommendations from concerned stakeholders like Health Department, Education Department, Rescue 1122, Civil Defence, Building Department and Revenue Department of Rawalpindi

The affected population due to flood or earthquake shall be shifted to the designated relief camps by Rescue 1122, Civil Defense and Volunteers.

Food and Health assistance will be provided by the Revenue Department and Health Department. Similarly the need of rehabilitation of affected victims is assessed and evaluated by these.

PDMA has already issued the standardization of different packages/kits for food and tentage need of affected victims. Whole of the activity regarding humanitarian assistance and monitoring is supervised by Additional Deputy Commissioner in consultation with all relevant stakeholders in order to avoid duplication of resources and identification of gaps.

All the affected victims of are shifted to the already designated relief camps in school. No separate camp are established as the flood emergency in Rawalpindi is of flash flood nature.

Rawalpindi District has sufficient capacity in terms of provision of food , shelter, medicine to cater maximum number of victims for more than even three months' time

As for as humanitarian strategy regarding protection, gender, age, environment and other cross cutting issues or concerned , the administration of Rawalpindi has taken diligent steps which are as follows:

1. Issuance of early warning by Rescue 1122, Rawalpindi.
2. Rescue and Shifting of Victims to hospitals and Relief Camps by Rescue 1122 and Civil Defense Volunteers.
3. Establishment of relief camps in predesignated schools.
4. Humanitarian assistance of the victims by involving Health, Education and Revenue Department.
5. Foolproof coordination and communication among all stakeholders through pre-alert warning issued by Rescue 1122.

(PICTORIAL REFERENCE OF RELIEF CAMPS)**3.7.1 RELIEF CAMPS**

The whole target area which ranges from Kattarian Bridge to Chakdala Bridge is divided into 8 zones and safe locations are identified as evacuation centers and relief camps for effective management of flood disaster. The responsibilities of evacuation activities, coordination with other agencies & with control room are distributed according to the locality of Rescue Station.

Details are given below.

ZONES	PROPOSED SITE FOR RELIEF CENTERS	CONDITION
1	Govt. College for Women Khayaban-e-Sir Syed.	Proposed
2	Govt. Boys High School Babu Lal Hussain Road	Functional
3	F.G. Girls High School Daryyabad Rawalpindi	Functional
4	Islamia High School Liaqat Chowk Rawalpindi	Functional
5	F.G. High School Marir Hassan Rawalpindi	Reserved
6	Govt. Girls High School Safdarabad Pirwadhahai Rwp	Proposed
7	Govt. Girls High School Bagh Sardaran Rwp	Proposed
8	Govt. Boys High School Dhok Khabba Rwp	Proposed
9	Waqar-Un-Nisa College for Women, Tipu Road	Proposed

Annex I: Identified sites for displaced persons

S#	Location	No. of persons which can be accommodated	GPS Coordinates	S#	Location	No. of persons which can be accommodated	GPS Coordinates
1	NARA	250	33°32'24.6"N 73°31'33.2"E	24	BALRIA	150	33°35'43.8"N 73°29'39.4"E
2	HANESAR	60	33°35'35.6"N 73°28'44.2"E	25	BEOR	120	33°34'45.9"N 73°33'39.8"E
3	KAHUTA	300	33°35'20.0"N 73°22'57.4"E	26	KAHUTA	300	33°35'39.4"N 73°22'55.4"E
4	DOBERAN KHURD	60	33°36'48.1"N 73°26'46.3"E	27	MATORE	250	33°31'51.0"N 73°28'44.3"E
5	HOTHLA	90	33°35'29.2"N 73°22'15.4"E	28	NARA	200	33°32'34.0"N 73°31'39.3"E
6	MATORE	60	33°31'32.2"N 73°28'11.8"E	29	MOUREEN	250	33°42'26.8"N 73°31'43.8"E
7	NARAR	80	33°42'27.4"N 73°31'50.8"E	30	PUNJAR	160	33°37'24.0"N 73°27'56.0"E
8	PANJAR	80	33°37'24.0"N 73°27'56.0"E	31	KALARIAN	180	33°27'01.3"N 73°21'14.0"E
9	SALAMBER	60	33°39'49.2"N 73°29'20.9"E	32	THOHA KHALSA	400	33°30'36.0"N 73°25'58.6"E
10	SEHR	150	33°29'31.3"N 73°32'53.3"E	33	DOBERAN KHURD	200	33°36'54.9"N 73°26'27.8"E
11	SORE	50	33°41'11.8"N 73°28'30.7"E	34	PAPEEN	200	33°35'03.7"N 73°20'25.3"E
12	THOHA KHALISA	150	33°30'38.3"N 73°25'58.6"E	35	MOWARA	120	33°33'07.5"N 73°26'49.2"E
13	BAROHI	80	33°43'06.6"N 73°36'06.9"E	36	Loona	120	33°35'06.8"N 73°22'45.2"E
14	BEOR	120	33°34'31.4"N 73°33'39.4"E	37	CHAR TAAN	120	33°49'00.1"N 73°27'39.4"E
15	BATALA	80	33°34'36.5"N 73°24'58.0"E	38	MURREE CITY	350	33°54'28.1"N 73°23'29.0"E
16	DAKHALI	150	33°32'11.9"N 73°21'12.3"E	39	AUSIA	300	34°01'34.9"N 73°29'14.4"E
17	LEHREE	120	33°31'20.8"N 73°32'48.6"E	40	CHARHAN	300	33°51'44.1"N 73°26'29.6"E
18	MOWARA	120	33°32'58.1"N 73°26'50.6"E	41	CHITRA DOONGA	250	33°57'32.3"N 73°23'55.0"E
19	SALGRAN	120	33°35'08.5"N 73°31'14.6"E	42	HOKRA KERI	140	33°53'21.7"N 73°27'26.8"E
20	SANG	120	33°35'34.8"N 73°23'42.8"E	43	NUMB ROMAL	200	33°37'24.9"N 72°56'43.1"E
21	AUSIA	150	34°01'34.9"N 73°29'14.4"E	44	BANN	250	33°49'54.4"N 73°27'34.6"E

22	MURREE CITY	150	33°56'13.8"N 73°23'55.5"E	45	ALIOT	200	33°56'27.3"N 73°27'46.6"E
23	CHAK BEGWAL	100	33°37'59.1"N 73°06'51.5"E	46	ANGOORI	150	33°37'59.1"N 73°06'51.5"E
47	DARYA GALI	180	33°56'52.2"N 73°23'40.0"E	75	CHARIAN	150	33°48'51.1"N 73°26'13.0"E
48	GHORA GALI	120	33°52'53.5"N 73°20'16.1"E	76	Potha	150	33°56'43.0"N 73°29'47.5"E
49	CHARAHAN	150	33°52'59.8"N 73°26'26.4"E	77	SAMLI TAJJAL	150	33°51'10.4"N 73°19'15.7"E
50	KAKRAHI	100	33°55'54.8"N 73°31'37.2"E	78	SANGSERI	150	33°47'56.2"N 73°26'53.0"E
51	MANGA	150	33°48'21.0"N 73°18'03.1"E	79	GHORA GALI	200	33°52'55.8"N 73°20'19.4"E
52	CHAREHAN	120	33°53'24.2"N 73°25'15.6"E	80	RAWAT	150	33°57'36.6"N 73°26'56.4"E
53	PHAGWARI	200	33°37'24.1"N 72°56'44.0"E	81	DEWAL	150	33°59'48.4"N 73°29'19.8"E
54	PHAPHRIL	120	33°51'36.5"N 73°23'09.6"E	82	RAWALPINDI	2000	33°38'41.5"N 73°05'18.2"E
55	POTHA SHARIF	135	33°37'24.1"N 72°56'44.0"E	83	BAGH SARDARIN	2000	33°37'14.4"N 73°03'13.7"E
56	RAWAT	180	33°57'46.0"N 73°26'32.7"E	84	MURREE ROAD RWP	500	33°36'36.2"N 73°03'53.2"E
57	SEHR BAGLA	200	33°55'24.4"N 73°27'35.6"E	85	SAGRI	600	33°28'50.1"N 73°16'14.8"E
58	SAMLI TAJJAL	120	33°38'05.4"N 73°06'56.3"E	86	CHKLALA	400	33°35'18.5"N 73°05'47.9"E
59	SANEOH	120	33°51'38.6"N 73°22'03.4"E	87	DHOK RATTA	300	33°36'46.3"N 73°02'44.5"E
60	SUNDIAN	120	33°57'31.3"N 73°23'42.3"E	88	RAWALPINDI	200	33°37'25.3"N 73°03'37.8"E
61	ANGOORI	120	33°50'48.7"N 73°22'37.7"E	89	TELI MOHALLAH	150	33°36'57.4"N 73°03'45.3"E
62	CHAR TAAN	150	33°49'00.1"N 73°27'39.4"E	90	SATELLITE TOWN	200	33°38'03.6"N 73°03'52.9"E
63	MEHNGAL	100	33°31'25.7"N 73°09'35.8"E	91	EID GAH RWP	200	33°37'38.7"N 73°03'17.4"E
64	GEHL	80	33°52'25.5"N 73°28'59.4"E	92	RAWALPINDI	200	33°36'37.4"N 73°03'45.7"E
65	MOHRA ESWAL	100	33°56'22.6"N 73°26'49.2"E	93	HASSAN ABDAL	200	33°34'19.7"N 73°02'23.2"E
66	ALIOT	100	33°56'47.3"N 73°28'30.5"E	94	DHOK HASSO	200	33°37'32.6"N 73°01'42.9"E
67	ASGHAR MALL SCHEME	1000	33°37'48.0"N 73°03'50.6"E	95	SATLIGHT TOWN	200	33°38'53.1"N 73°03'32.8"E
68	RAJA BAZAR RWP	1000	33°36'48.1"N 73°03'22.7"E	96	RATTA AMRAL	150	33°36'22.2"N 73°02'47.4"E
69	KASHMIR ROAD	1000	33°35'16.2"N 73°05'06.4"E	97	MAGISTRATE COLONY	150	33°37'50.5"N 73°04'46.7"E

70	ARIA MOHALLAH	1000	33°36'13.2"N 73°04'02.7"E	98	DHOKE ELLAHI BUKSHSH	150	33°36'29.4"N 73°04'34.6"E
71	BASSALI	600	33°23'41.9"N 73°08'25.7"E	99	RAWALPINDI	150	33°38'04.4"N 73°03'37.7"E
72	TITRAL	200	32°56'23.0"N 72°40'14.2"E	100	RAWALPINDI	250	33°37'43.2"N 73°02'52.7"E
73	DHOKE KASHMIRIAN	1500	33°38'38.6"N 73°05'32.0"E	101	KHAYABAN I SIR SYED	350	33°38'07.1"N 73°02'52.5"E
74	DAV COLLEGE ROAD	600	33°36'40.4"N 73°03'41.1"E	102	KOH-I-NOOR COLONY	350	33°36'51.5"N 72°58'51.2"E
103	TRUNK BAZAR	250	33°36'25.6"N 73°04'29.9"E	131	BANGASH COLONI	100	33°38'04.1"N 73°02'08.0"E
104	Chaklala	800	33°35'18.5"N 73°05'47.9"E	132	RAWALPINDI	100	33°34'42.2"N 73°01'13.7"E
105	CIRCULAR ROAD	300	33°37'10.4"N 73°03'52.6"E	133	RAWALPINDI	100	33°36'44.7"N 73°03'35.6"E
106	DHOK RATA	500	33°36'57.0"N 73°02'44.4"E	134	MUSLIM TOWN	120	33°37'58.0"N 73°05'30.6"E
107	RAWALPINDI	500	33°36'27.4"N 73°03'53.2"E	135	RAWALPINDI	120	33°37'52.4"N 73°03'46.4"E
108	S.TOWN RWP	250	33°38'03.4"N 73°03'53.0"E	136	RAWALPINDI	120	33°37'13.8"N 73°03'45.8"E
109	KHAYABNE SIR SYED	450	33°38'14.5"N 73°02'45.6"E	137	JAHANGIR ABAD	120	33°37'32.5"N 73°04'06.4"E
110	KOH-I-NOOR	300	33°34'08.4"N 73°05'38.4"E	138	NEW SARAF BAZAR	120	33°36'58.8"N 73°03'35.4"E
111	RAWALPINDI	600	33°37'06.1"N 73°02'16.3"E	139	MILAD NAGER	250	33°36'42.1"N 73°02'26.3"E
112	RAWALPINDI	600	33°38'41.5"N 73°03'39.4"E	140	PINDORA	300	33°38'53.6"N 73°04'01.2"E
113	SAID PURI ROAD	400	33°37'14.0"N 73°03'42.2"E	141	SAFDAR ABAD	200	33°37'18.3"N 73°02'51.4"E
114	FAIZABAD RWP	80	33°39'53.1"N 73°05'00.7"E	142	W.NO 6 BLOCK-B S/TOWN	150	33°38'07.5"N 73°04'10.4"E
115	MUGHALAB AD	120	33°34'52.9"N 73°01'26.4"E	143	RAWALPINDI CITY	150	33°37'26.2"N 73°04'08.7"E
116	SIMLA ISLAMIA	120	33°36'46.2"N 73°03'20.2"E	144	RAILWAY ROAD	300	33°36'59.8"N 73°02'16.6"E
117	RAWALPINDI	120	33°34'53.0"N 73°01'26.4"E	145	RAWALPINDI	150	33°36'49.0"N 73°04'15.3"E
118	RAWALPINDI	400	33°36'46.2"N 73°03'20.2"E	146	BASSALI	350	33°23'43.2"N 73°08'27.9"E
119	RAWALPINDI	300	33°38'06.0"N 73°05'14.2"E	147	CHAK BELI KHAN	1500	33°14'08.5"N 72°54'48.0"E
120	MILLAT COLONY	500	33°36'56.9"N 73°04'07.6"E	148	JHATTA HATHIAL	500	33°23'47.6"N 73°06'01.0"E
121	RAWALPINDI	400	33°36'55.7"N 73°02'44.5"E	149	MARI DANISHMAND AN	150	33°20'47.3"N 73°06'25.5"E

122	ASGHAR MALL SCHEME	400	33°38'06.5"N 73°03'54.0"E	150	MOHRA DORGHA	200	33°29'58.6"N 73°13'01.7"E
123	MOTI BAZAR RWP	300	33°36'51.1"N 73°03'37.5"E	151	RAHMAT ABAD	250	33°35'27.2"N 73°05'51.0"E
124	RAWALPINDI	250	33°37'22.4"N 73°02'49.3"E	152	MORGAH	500	33°33'11.2"N 73°04'30.8"E
125	CHAHAN	300	33°28'39.0"N 72°55'41.1"E	153	DHAMIAL	500	33°33'09.9"N 73°01'20.3"E
126	BANDA	120	33°20'57.4"N 73°00'42.8"E	154	GIRJA	150	33°32'48.4"N 72°59'43.9"E
127	ADHWAL	450	33°19'27.1"N 72°55'29.1"E	155	SANGRAL	100	33°21'50.6"N 72°56'11.9"E
128	CHAK BELI KHAN	600	33°14'10.4"N 72°54'46.3"E	156	SIHAL	250	33°23'00.0"N 72°49'08.6"E
129	DHANDA	250	33°11'18.8"N 72°57'48.7"E	157	ARIA MOHALLA	150	33°36'32.9"N 73°03'50.9"E
130	GOHRA BHARTHA	150	33°27'05.9"N 73°12'06.4"E	158	MOHAN PURA	150	33°36'29.2"N 73°03'12.7"E
159	JABBER DARVESH	120	33°21'23.3"N 73°06'17.6"E	188	TENCH BHATIA	150	33°34'25.4"N 73°02'14.3"E
160	JATHA HATHIAL	350	33°24'22.4"N 73°06'01.4"E	189	CHAKRI	250	33°20'24.8"N 72°48'05.6"E
161	KHARKAN	120	33°27'37.7"N 73°04'20.0"E	190	CHAUNTRA	450	33°21'04.3"N 72°55'47.5"E
162	MAHUTA MOHRA	120	33°13'00.8"N 72°52'37.2"E	191	PARIAL	450	33°15'14.3"N 72°48'11.5"E
163	MIRA MOHRA	120	33°25'08.9"N 73°07'37.3"E	192	ROPPER KALAN	150	33°16'00.9"N 72°54'26.1"E
164	MOHRA DAROGHA	120	33°30'04.5"N 73°13'06.2"E	193	R.W.P	250	33°35'32.5"N 73°04'07.5"E
165	NARALI	150	33°29'29.1"N 72°54'58.3"E	194	KHABAN E SIR SYED	250	33°38'16.1"N 73°02'32.8"E
166	PIND JHATLA	120	33°28'04.6"N 73°07'54.1"E	195	SADIQ ABAD	120	33°37'48.5"N 73°04'48.4"E
167	SAGRI	500	33°27'42.2"N 73°15'58.6"E	197	TAKHAT PARI	150	33°28'29.4"N 73°09'06.5"E
168	ARL MORGAH	500	33°33'13.6"N 73°04'44.5"E	198	GOGRAH	150	33°24'21.4"N 73°04'07.1"E
169	NEW SHAKRIAL	400	33°38'01.6"N 73°06'24.0"E	199	KOTLA	120	33°25'35.1"N 73°08'58.4"E
170	BAKRA MANDI	200	33°34'20.0"N 73°02'24.3"E	200	KURI KHURD BAKHSH	150	33°20'07.4"N 73°03'07.0"E
171	DHALLA	120	33°34'06.0"N 73°02'09.9"E	201	DHALLA	120	33°34'07.3"N 73°02'09.8"E
172	DHAMIL	300	33°32'55.1"N 73°01'33.2"E	202	DHULIAL	150	33°15'12.3"N 72°54'38.7"E
173	MORGAH	300	33°33'13.3"N 73°04'44.5"E	203	GORAKHPUR	120	33°28'26.2"N 73°02'24.5"E
174	GANGAWAL A	150	33°17'10.5"N 72°44'53.5"E	204	KOLIAN HAMEED	120	33°15'28.7"N 72°48'10.7"E

175	SIHAL	250	33°21'17.4"N 72°49'57.8"E	205	MORGAH	250	33°33'36.5"N 73°00'47.3"E
176	CHAKRI	250	33°17'42.5"N 72°45'31.7"E	206	RAJAR	120	33°23'59.0"N 72°49'60.0"E
177	DHADHUMBER	200	33°13'21.5"N 72°40'20.0"E	207	SAROBA	120	33°17'54.9"N 72°46'37.2"E
178	PARIAL	300	33°15'13.0"N 72°48'12.3"E	208	RANOTRA	120	33°12'08.8"N 72°54'41.6"E
179	BAHAL	300	33°13'18.3"N 72°56'18.1"E	209	ADHWAL	500	33°21'56.7"N 72°57'04.8"E
180	Darkali Sher Shahi	80	33°25'38.1"N 73°20'39.4"E	210	BHALL	250	33°20'57.9"N 72°49'58.0"E
181	TENCH	100	33°36'58.0"N 73°00'03.6"E	211	TALLA BAJAR	120	33°18'07.8"N 72°55'16.5"E
182	CANTT AREA	200	33°35'45.9"N 73°04'43.7"E	212	DHANDA	120	33°11'50.0"N 72°56'10.0"E
183	KHAYABAN-E-SIR SYED S	250	33°38'02.5"N 73°02'42.1"E	213	MAIL		33°13'29.8"N 72°47'50.9"E
184	KHAYABAN-E-SIR SYED	250	33°37'45.8"N 73°03'04.0"E	214	MISRIAL	120	33°35'53.3"N 73°00'17.2"E
185	CANTT	400	33°37'36.9"N 73°01'35.3"E	215	RAWALPINDI	120	33°37'31.4"N 73°05'12.2"E
186	ZARI FORM	300	33°38'37.2"N 73°04'47.5"E	216	DHOK JUMAKHAN	120	33°34'20.1"N 73°05'54.3"E
187	TAKHT PARI	150	33°28'28.4"N 73°09'18.7"E	217	MAIRA KALAN	120	33°29'29.1"N 72°54'58.3"E
218	TRAHIA	120	33°29'29.1"N 72°54'58.3"E	247	BARF KHANA	150	33°35'00.0"N 73°00'52.5"E
219	ADYALA	120	33°34'07.0"N 73°02'10.1"E	248	SHER ZAMAN COLONY	150	33°34'02.5"N 73°02'56.7"E
220	GIRJA	120	33°34'00.2"N 73°02'03.3"E	249	ARIYA MOHALLAH	120	33°36'23.9"N 73°04'14.8"E
221	RENAL	120	33°28'54.3"N 72°55'49.0"E	250	PIR WADHAI	150	33°37'50.7"N 73°02'45.5"E
222	PIND NASRALA	200	33°36'05.3"N 72°52'25.4"E	251		250	33°36'43.0"N 73°04'07.4"E
223	CHAK AMRAL	120	33°20'54.6"N 72°49'58.9"E	252	DHAMAN SYEDAN	150	33°33'15.0"N 73°03'04.4"E
224	KARAHAI	150	33°15'28.6"N 72°48'10.7"E	253	GANGAL	200	33°35'55.9"N 73°07'47.8"E
225	RUPPER KALLAN	150	33°16'11.8"N 72°52'49.1"E	254	HAZARA COLONY	250	33°37'12.2"N 73°02'43.4"E
226	MIAL	150	33°15'15.3"N 72°48'11.1"E	255	LAIQ ALI CHOK	250	33°45'49.0"N 72°45'26.9"E
227	Naseerabad	120	33°37'28.4"N 72°59'09.1"E	256	TAXILA	500	33°44'24.9"N 72°48'11.2"E
228	GANGAL	120	33°35'56.4"N 73°07'46.9"E	257	GHARI AFGHANAN	250	33°38'08.3"N 72°56'07.5"E
229	DHAMAN SYEDAN	120	33°33'07.5"N 73°03'10.7"E	258	WAHDAT COLONY	120	33°43'28.9"N 72°48'13.1"E

230	SIYAM	100	33°36'53.9"N 72°58'59.2"E	259	THATHA KHALIL	120	33°38'58.9"N 72°45'29.9"E
231	LIAQ ALI CHOK WAHCANT	250	33°45'49.0"N 72°45'26.9"E	260	USMAN KHATAR	150	33°48'13.6"N 72°49'15.0"E
232	TAXILA CANTT	1000	33°44'03.2"N 72°49'49.8"E	261	WAH VILLAGE	350	33°48'31.7"N 72°41'17.3"E
233	TAXILA	1000	33°45'23.7"N 72°45'05.6"E	261	TAXILA	350	33°44'47.0"N 72°48'31.6"E
234	TAXILA	250	33°44'15.5"N 72°48'04.0"E	262	DHIR KOT SATTIAN	120	33°51'28.5"N 73°31'07.4"E
235	GARHI AFGHANAN	300	33°48'10.0"N 72°47'07.0"E	263	KALLEN BASSAND	120	33°47'55.1"N 73°31'12.1"E
236	KHURRAM PARACHA	250	33°38'06.8"N 72°56'05.3"E	264	KAROR E	120	33°47'55.2"N 73°31'12.3"E
237	USMAN KHATTAT	350	33°47'48.2"N 72°43'38.4"E	265	KOTLI SATTIAN	120	33°48'18.5"N 73°31'34.7"E
238	WAH VILLAGE	1000	33°47'56.3"N 72°42'01.8"E	266	LEHTRAR	120	33°42'13.7"N 73°25'60.0"E
239	WANNI	250	33°37'25.8"N 72°50'17.2"E	267	MALLOT SATTIAN	120	33°47'55.1"N 73°31'11.9"E
240	WAH CANTT	450	33°45'20.2"N 72°46'00.3"E	268	BHAN SARI	120	33°50'31.3"N 73°31'21.8"E
241	BHALLAR TOP	250	33°49'07.2"N 72°49'51.2"E	269	BHATTIAN	120	33°45'24.1"N 73°30'05.7"E
242	LAB THATHO	250	33°51'06.8"N 72°45'12.8"E	270	DARNOYAN	200	33°47'51.6"N 73°29'34.0"E
243	THATHA KHALIL	250	33°39'44.0"N 72°45'16.9"E	271	KUTHIAN	120	33°49'37.4"N 73°31'49.0"E
244	KOTLI SATTIAN	500	33°50'31.3"N 73°31'21.8"E	272	ARYARI	120	33°47'28.6"N 73°25'56.5"E
245	WAGHIL	1000	33°54'01.4"N 73°30'37.1"E	273	PHOFHANDI	200	33°51'28.5"N 73°29'48.5"E
246	ANWALI	250	24°38'10.6"N 46°41'04.1"E	274	WAGHAL	120	33°53'17.6"N 73°31'34.9"E
275	BAGGA	250	33°40'39.9"N 73°23'22.3"E	304	SASRAL	150	33°09'05.9"N 73°14'54.4"E
276	CHALAWRA	250	33°49'45.9"N 73°31'10.3"E	305	HOUSING SCHEME NO 1	1000	33°15'34.0"N 73°18'21.4"E
277	DHIR KOT SATTIAN	250	33°51'28.5"N 73°31'07.4"E	306	JHANDA GUJAR KHAN	250	33°15'18.5"N 73°19'05.2"E
278	BIAGA	250	33°46'24.3"N 73°27'56.3"E	307	MANDRA	250	33°21'00.4"N 73°13'21.9"E
279	KALAN BASAAND	500	33°47'55.5"N 73°31'11.9"E	308	BEWAL	500	33°20'13.0"N 73°26'51.7"E
280	LEHTRAR BALA	500	33°43'20.0"N 73°27'08.8"E	309	BHAGANA	150	33°16'08.5"N 73°19'02.7"E
281	MALOOT SATTIAN	500	33°47'55.3"N 73°31'12.2"E	310	BIJNIAL	150	33°20'52.9"N 73°12'13.2"E
282	ARYARI	250	33°47'24.4"N 73°24'39.2"E	311	JAND NAJAR	150	33°15'20.1"N 73°18'13.9"E

283	THOON	150	33°47'23.6"N 73°31'22.5"E	312	MANGHOT	180	33°15'50.7"N 73°08'55.1"E
284	WAGHAL	150	33°52'39.1"N 73°32'10.2"E	313	MOHRA BURJ	150	33°10'58.1"N 73°20'33.2"E
285	DERNOIAN	150	33°47'36.2"N 73°29'23.0"E	314	DOLTALA	300	33°12'02.9"N 73°09'00.1"E
286	SANGRI	120	33°44'31.5"N 73°31'45.3"E	315	GUJAR KHAN	1000	33°14'54.0"N 73°18'29.3"E
287	ISLAMIAN GUJAR KHAN	1000	33°15'44.6"N 73°18'11.6"E	316	GULYANA	250	33°12'38.1"N 73°16'31.9"E
288	JAIRO RATIAL	200	33°11'14.7"N 73°18'46.1"E	317	JATLI	150	33°12'18.5"N 73°06'22.5"E
289	KANGAR	200	33°16'05.7"N 73°33'45.2"E	318	KAUNTRILA	250	33°07'37.7"N 73°15'35.6"E
290	MOHALLA HAFIZ ABAD	1500	33°27'54.6"N 73°12'15.5"E	319	MIANA MOHRA	150	33°05'31.7"N 73°14'17.6"E
291	GUJRA KHAN	1000	33°15'13.4"N 73°18'13.3"E	320	QAZIAN	150	33°16'31.4"N 73°24'15.2"E
292	CHANGA MAIRA	150	33°19'46.3"N 73°21'02.4"E	321	RAMAN	150	33°15'51.5"N 73°08'56.0"E
293	DARA KIAL	150	33°07'44.7"N 73°20'21.8"E	322	USMAN ZADA ADRA	150	33°11'12.6"N 73°11'25.2"E
294	DARYALA SAGON	600	33°21'17.1"N 73°24'19.5"E	323	SUKHO	600	33°15'01.2"N 73°11'10.0"E
295	DORA BUDHAL	250	33°08'54.3"N 73°18'20.3"E	324	CHANGA BANGIAL	150	33°17'21.4"N 73°21'37.5"E
296	GALYANA	350	33°12'16.1"N 73°16'25.0"E	325	CHULLO CHAKRAL	100	33°23'03.8"N 73°28'27.0"E
297	JHAND NAJJAR	250	33°13'48.5"N 73°19'48.4"E	326	MAHNDAR	100	33°19'52.0"N 73°19'02.4"E
298	MAHANDER	200	33°19'50.9"N 73°19'03.0"E	327	THATHI	150	33°13'36.0"N 73°29'02.2"E
299	MIRZA KAMBILI	200	33°22'49.3"N 73°20'50.8"E	328	SAYYAD	150	33°06'42.4"N 73°02'36.9"E
300	MISSA KHASHWAL	250	33°10'58.2"N 73°20'33.5"E	329	DATA BHATT	100	33°22'43.8"N 73°07'52.3"E
301	PINDOORI	250	33°17'12.4"N 73°28'09.3"E	330	DEVI	100	33°12'40.3"N 73°04'04.4"E
302	QAZIAN	250	33°17'55.0"N 73°23'42.5"E	331	DHOONG	100	33°03'52.1"N 73°06'12.9"E
303	RAMAN	200	33°11'05.9"N 73°07'51.9"E	332	MOHRA NOORI	100	33°05'34.5"N 73°11'24.0"E
333	SAHANG	120	33°17'55.0"N 73°11'46.4"E	362	ARAZI HASSANAL	100	33°24'24.6"N 73°25'13.9"E
334	THATHI	150	33°17'39.0"N 73°11'17.9"E	363	BHATTA	100	33°27'35.1"N 73°16'25.7"E
335	THARJIAL	150	33°19'41.2"N 73°15'55.9"E	364	CHAHARI KALIAL	100	33°19'15.5"N 73°15'14.9"E
336	BEWAL	500	33°20'17.0"N 73°26'55.1"E	365	DHOK AWAN	100	33°15'45.4"N 72°59'30.6"E

337	BHADANA	250	33°17'09.8"N 73°22'01.4"E	366	HAMID JHANGI	100	33°32'26.6"N 73°03'10.8"E
338	DAULTALA	500	33°11'20.9"N 73°08'40.4"E	367	JHONGAL	100	33°15'57.1"N 73°04'28.2"E
339	DEVI	250	33°11'41.2"N 73°03'54.8"E	368	KALIAM AWAN	120	33°24'16.6"N 73°12'24.2"E
340	DHOK PANAHA	120	33°14'17.9"N 73°00'05.1"E	369	SAHANG	100	33°17'59.9"N 73°11'44.5"E
341	DHONG	120	33°06'24.1"N 73°07'35.9"E	370	SANGHORI SARWAR	120	33°23'44.2"N 73°13'41.8"E
342	JATLI	400	33°12'13.9"N 73°06'20.1"E	371	JABBAR PINDORI	250	33°17'10.7"N 73°28'06.5"E
343	KANYAT KHALIL	250	33°11'06.2"N 73°13'35.5"E	372	CHOA KHALSA	1000	33°24'26.8"N 73°28'53.3"E
344	KAUNTRIALA	600	33°05'43.3"N 73°13'12.9"E	373	ARAZI	200	33°27'39.9"N 73°19'08.0"E
345	SYED	350	33°06'51.8"N 73°02'45.3"E	374	DOBERAN KALAN	120	33°27'08.2"N 73°30'04.8"E
346	KARNAB BALOOCH	120	33°15'54.1"N 73°14'00.6"E	375	KALLAR SYEDAN	800	33°25'44.0"N 73°22'10.7"E
347	MACHHIA	120	33°10'05.2"N 72°59'55.6"E	376	NALA MUSLAMANA	250	33°24'44.3"N 73°28'54.4"E
348	MOHRA NOORI	130	33°04'30.3"N 73°14'50.7"E	377	SAMOTE	250	33°20'07.1"N 73°29'35.2"E
349	NIRALI	120	33°07'15.1"N 73°09'19.6"E	378	CHEK SATHWANT	150	33°25'35.4"N 73°26'06.8"E
350	SASRAL	150	33°09'05.9"N 73°14'54.4"E	379	TAKAL	120	33°22'13.4"N 73°27'45.5"E
351	DARKALA	120	33°16'19.9"N 73°06'39.1"E	380	MAMYAM	100	
352	DARKALI KHURD	100	33°16'09.2"N 73°01'04.1"E	381	NALLA MUSLIM	100	33°24'45.2"N 73°28'54.4"E
353	HARNAL	100	33°19'19.7"N 73°13'31.6"E	382	SAROHA	120	33°25'09.0"N 73°23'20.5"E
354	KALIAM AWAN	120	33°24'16.6"N 73°12'24.2"E	383	BHALAKAR	100	
355	MANDRA	250	33°22'35.5"N 73°14'10.5"E	384	CHANBA KARYAL	100	33°30'17.3"N 73°18'57.2"E
356	SUKHO	400	33°15'04.6"N 73°11'03.4"E	385	KAHJLI DHAMONIA	100	
357	BHATTA	200	33°25'51.1"N 73°13'37.8"E	386	CHANAM	150	33°30'39.3"N 73°21'55.4"E
358	CHINGA BANGIAL	200	33°19'24.5"N 73°22'43.6"E	387	MORA DHAYAL	120	33°24'29.3"N 73°25'36.2"E
359	Dera Muslim	120	33°12'42.9"N 73°13'12.4"E	388	DARKAL MAMORI	120	33°25'08.0"N 73°22'12.8"E
360	THEKRIAN	120	33°11'51.1"N 72°59'47.2"E	389	NOTHIA	120	33°29'44.0"N 73°19'18.3"E
361	HAMID JHANGI	120	33°32'26.6"N 73°03'10.8"E	390	SANTHA	120	33°27'09.9"N 73°30'01.7"E

391	SARWAR SHAHEED SANGHORI	120	33°23'37.0"N 73°14'26.6"E	417	GGES Soar	120	X:33°41'01.6"N
392	BHAIR KALYAL	100	33°15'24.0"N 73°04'54.8"E				Y: 73°29'02.8"E
393	NABAN IANJUA	100	33°09'05.1"N 73°11'18.1"E	418	GGES Barohi Bala	120	X: 33°31'09.6"N
394	BANHAL	100	33°27'22.4"N 73°36'26.2"E	419	GGES Maira	120	X: 33°30'50.9"N
395	BHAKRAL	500	33°28'33.9"N 73°20'55.4"E				Y: 73°28'08.4"E
396	CHOA KHALSA	1000	33°24'59.0"N 73°29'37.7"E	420	GGES Thathi Syedan	120	X: 33°31'37.8"N
397	DERA KHALSA	600	33°28'57.4"N 73°18'21.1"E				Y: 73°24'24.0"E
398	DHAMALI	250	33°26'13.5"N 73°26'39.5"E	421	GGES Aliot	150	X: 33°35'37.8"N
399	DOBERAN KALAN	250	33°27'08.2"N 73°30'04.8"E				Y: 73°19'40.9"E
400	KAHLIAN SIAHLIAN	120	33°20'05.0"N 73°32'01.6"E	422	GGES Bhaghar Sharif	120	X: 33°34'03.2"N
401	KALAR SYEDAN	450	33°25'09.4"N 73°23'20.5"E				Y: 73°28'40.2"E
402	NALA MUSALMAN	250	33°27'26.6"N 73°31'04.6"E	423	GGES Batala	150	X: 33°34'40.7"N
403	PHALINA	250	33°24'53.1"N 73°22'40.9"E				Y: 73°24'56.1"E
404	KANOHA	120	33°24'12.3"N 73°26'25.0"E	424	GGES Jhangar	110	X: 33°35'09.3"N
405	BAGH JAMERI	100	33°29'04.5"N 73°29'04.0"E				Y: 73°34'15.1"E
406	ARAZI	100	33°27'16.8"N 73°18'37.6"E	425	GGES Chinor	120	X: 33°34'20.5"N
407	SAKOTE	120	33°27'09.9"N 73°30'01.7"E				Y: 73°32'27.9"E
408	SAMOTE	120	33°20'27.5"N 73°29'44.1"E	426	GGES Khunian	100	X: 33°31'15.0"N
409	SIR SUBA SHAH	150	33°23'47.6"N 73°29'45.9"E				Y: 73°15'23.0"E
410	GAKHAR ADMAL	120	33°30'48.4"N 73°19'27.5"E	427	GGES Katheel Hoon	120	X: 33°36'05.1"N
411	BHALAKHAR	100	33°27'48.9"N 73°25'36.1"E				Y: 73°31'12.9"E
412	MANGLORA	120	33°27'01.3"N 73°21'12.5"E	428	GGES Lehri	100	X: 33°31'12.6"N
413	PIND BENSO	120	33°27'08.4"N 73°30'05.0"E				Y: 73°33'07.0"E
414	CHOHA KHALSA	120	33°24'45.0"N 73°28'54.7"E	429	GGES Bhoon	150	X: 33°29'25.2"N
415	CHANAM	150	33°30'24.0"N 73°21'38.6"E				Y: 73°17'22.8"E

416	GGES Kahuta	195	X: 33°35'31.6"N	430	GGES Garmala	120	X: 33°31'15.0"N
							Y: 73°15'23.0"E
431	GMPS Ghariat	60	X: 33°32'13.1"N	443	GGPS Kalana	49	X: 33°33'21.8"N
			Y: 73°28'42.4"E				Y: 73°22'03.7"E
432	GMS Karli	30	X: 33°44'09.6"N	444	GGPS Kalyal	45	X: 33°34'26.9"N
			Y: 73°33'31.9"E				Y: 73°20'01.2"E
433	GMPS Narala	45	X: 33°35'37.8"N	445	GGPS Kangarh	60	X: 33°35'37.3"N
			Y: 73°19'40.9"E				Y: 73°19'38.9"E
434	GMPS Narar	60	X: 33°42'33.0"N	446	GGPS Kanaran	15	X: 33°40'45.5"N
			Y: 73°31'22.8"E				Y: 73°33'56.2"E
435	GMPS Norang Bakht	120	X: 33°33'17.6"N	447	GGPS Karot No: 1	30	X: 33°29'27.4"N
			Y: 73°32'54.2"E				Y: 73°18'04.4"E
436	GPS Piniali	100	X: 33°33'59.9"N	448	GGPS Keral	30	X: 33°37'24.0"N
			Y: 73°15'26.0"E				Y: 73°27'56.0"E
437	GMPS Soon	60	X: 33°39'42.7"N	449	GGPS Khadiot	45	X: 33°35'54.9"N
			Y: 73°32'47.8"E				Y: 73°23'00.1"E
438	GMPS Bamlot	60	X: 33°31'36.2"N	450	GGPS Khalol	45	X: 33°35'20.4"N
			Y: 73°24'25.9"E				Y: 73°22'08.8"E
439	GMPS Chiras	45	X: 33°42'25.3"N	451	GGPS Kharang	60	X: 33°33'27.1"N
			Y: 73°32'48.1"E				Y: 73°22'22.2"E
440	GGPS Muhalla Rajgan	45	X: 33°35'41.1"N	452	GGPS Kotha	30	X: 33°35'13.6"N
			Y: 73°23'33.5"E				Y: 73°23'44.6"E
441	GMPS Ghariat	60	X: 33°32'13.1"N	453	GGPS Latori Syedan	45	X: 33°34'48.5"N
			Y: 73°28'42.4"E				Y: 73°31'36.0"E
442	GMS Karli	30	X: 33°44'09.6"N	454	GGPS Manyand	30	X: 33°36'20.8"N

			Y: 73°33'31.9"E				Y: 73°24'36.1"E
455	GMPS Narala	45	X: 33°35'37.8"N	467	GGPS Mohra Bero	30	X: 33°40'50.0"N
			Y: 73°19'40.9"E				Y: 73°24'24.6"E
456	GMPS Narar	60	X: 33°42'33.0"N	468	GGPS Mohra Plai	45	X: 33°34'21.3"N
			Y: 73°31'22.8"E				Y: 73°31'53.4"E
457	GMPS Norang Bakht	120	X: 33°33'17.6"N	469	GGPS Mohra Rajwal	90	X: 33°31'37.8"N
			Y: 73°32'54.2"E				Y: 73°24'24.0"E
458	GPS Piniali	100	X: 33°33'59.9"N	470	GGPS Danan	30	X: 33°41'06.9"N
			Y: 73°15'26.0"E				Y: 73°34'18.3"E
459	GMPS Soon	60	X: 33°39'42.7"N	471	GGPS Kaka	45	X: 33°31'39.4"N
			Y: 73°32'47.8"E				Y: 73°24'02.1"E
460	GMPS Bamlot	60	X: 33°31'36.2"N	472	GGPS Bhora Hayal	100	X: 33°25'44.9"N
			Y: 73°24'25.9"E				Y: 73°22'11.2"E
461	GMPS Chiras	45	X: 33°42'25.3"N	473	GGPS Bhora Naseeb	30	X: 33°30'01.2"N
			Y: 73°32'48.1"E				Y: 73°24'02.4"E
462	GGPS Muhalla Rajgan	45	X: 33°35'41.1"N	474	GGPS Mansi Jilla	30	X: 33°41'18.6"N
			Y: 73°23'33.5"E				Y: 73°29'46.3"E
463	GGPS Chahat	45	X: 33°35'35.3"N	475	GGMPS Model Pirwala	30	X: 33°34'24.4"N
			Y: 73°22'48.0"E				Y: 73°35'41.5"E
464	GGPS Chani	45	X: 33°34'50.5"N	476	GMPS Salitha	60	X: 33°37'26.8"N
			Y: 73°22'42.0"E				Y: 73°29'17.3"E
465	GGPS Galore	60	X: 33°31'08.5"N	477	GMPS Seri	90	X: 33°35'20.0"N
			Y: 73°26'13.5"E				Y: 73°22'10.4"E
466	GGPS Aara	80	X: 33°34'51.1"N	478	GMPS Soha	60	X: 33°39'01.3"N

			Y: 73°24'13.0"E				Y: 73°31'44.1"E
479	GGPS Bhagoon	45	X: 33°34'05.0"N	492	GMPS Tapyali	90	X: 33°35'47.2"N
			Y: 73°30'51.3"E				Y: 73°26'51.4"E
480	GGPS Baith	30	X: 33°44'27.1"N	493	GMPS Thanda Pani	60	X: 33°34'29.9"N
			Y: 73°29'48.6"E				Y: 73°24'42.1"E
481	GMPS Bamnial	90	X: 33°32'04.6"N	494	GMPS Ail	90	X: 33°34'02.2"N
			Y: 73°29'08.1"E				Y: 73°28'09.5"E
482	GMPS Bundia	60	X: 33°37'24.0"N	495	GMPS Balhar	60	X: 33°33'05.1"N
			Y: 73°27'56.0"E				Y: 73°30'01.4"E
483	GGPS Bara	30	X: 33°35'34.4"N	496	GMPS Bagla	120	X: 33°30'43.0"N
			Y: 73°22'23.4"E				Y: 73°29'58.4"E
484	GGPS Barya	30	X: 33°33'49.3"N	497	GMPS Kultia	60	X: 33°39'42.7"N
			Y: 73°32'04.5"E				Y: 73°32'47.8"E
485	GGPS Kaloyian	90	X: 33°39'57.9"N	498	GGPS koot	60	X: 33°32'42.9"N
			Y: 73°32'14.2"E				Y: 73°23'42.4"E
486	GGPS Bhalot	45	X: 33°32'24.5"N	499	GMPS Asloha	90	X: 33°34'17.6"N
			Y: 73°29'46.4"E				Y: 73°25'36.5"E
487	GGPS Bhanti	45	X: 33°35'35.5"N	500	GGES, Chokar	105	33°39'59.6"N 72°49'46.7"E
			Y: 73°25'01.9"E		GGES, Budho	165	33°48'21.9"N 72°45'23.6"E
488	GGPS Brathian	45	X: 33°39'01.3"N	501	GGES, Lossar Sharfoo	135	33°37'24.7"N 72°56'43.3"E
			Y: 73°31'44.1"E		GGES, Pind Vohti	150	33°49'45.4"N 72°44'50.2"E
489	GGPS Brohi Zarin	30	X: 33°43'06.0"N	502	GGES, Lub Thathoo	105	33°51'40.2"N 72°45'00.8"E
			Y: 73°36'08.3"E		GGES, Gangoo Jummah	135	33°38'08.0"N 72°56'07.4"E
490	GGPS Broota	30	X: 33°35'25.8"N	503	GGES, Brahma	120	33°38'08.0"N 72°56'07.4"E
			Y: 73°27'21.3"E		GGES, Godho	90	33°47'52.4"N 72°47'57.2"E

491	GGPS Bund Kahuta	30	X: 33°31'27.2"N	504	GGCMS, Bhallar Top	90	33°38'08.0"N 72°56'07.4"E
			Y: 73°31'17.2"E		GGCMS, Usman Khattar	120	33°47'34.5"N 72°49'25.7"E
505	GGPS Channi Gala	45	X: 33°35'00.3"N	517	GGPS, Saray-e Kala	60	33°44'03.2"N 72°47'48.9"E
			Y: 73°27'25.2"E		GGPS, Pind Gondal	30	33°38'42.0"N 72°55'08.2"E
506	GGPS Channi Jela	30	X: 33°38'14.4"N	518	GGPS, Juggian	30	33°38'08.0"N 72°56'07.4"E
			Y: 73°23'21.4"E		GGPS, Ban Bhola	30	33°42'42.0"N 72°46'10.1"E
507	GGPS Chatrana	30	X: 33°35'39.0"N	519	GGPS, Dhoke Saidoo	75	33°43'13.5"N 72°46'47.5"E
			Y: 73°23'24.0"E		GGPS, Khurram Gujjar	60	33°38'08.0"N 72°56'07.4"E
508	GGPS Dakhali	45	X: 33°32'13.1"N	520	GGPS, Khurram Pracha	30	33°38'08.0"N 72°56'07.4"E
			Y: 73°21'42.4"E		GGPS, Bajjar	45	33°49'18.6"N 72°46'37.8"E
509	GGPS Dhanlehri	60	X: 33°36'13.8"N	521	GGPS, Mul Pur	30	33°48'41.1"N 72°44'54.3"E
			Y: 73°12'23.1"E		GGPS, Gattia	90	33°47'01.6"N 72°42'54.0"E
510	GGPS Daroya	45	X: 33°35'37.8"N	522	GGPS, Jhatla	75	33°37'24.7"N 72°56'42.6"E
			Y: 73°19'40.9"E		GGPS, Ghazi Kohli	45	33°38'10.1"N 72°56'11.6"E
511	GGPS Dalehtar	30	X: 33°38'50.5"N	523	GGPS, Saint Joseph	90	33°45'20.1"N 72°46'00.4"E
			Y: 73°21'42.2"E		GGPS, Pind Kamala Banian	135	33°37'24.8"N 72°56'43.1"E
512	GGPS Dhian Pur	30	X: 33°36'05.3"N	524	GGPS, Massian	30	33°46'09.7"N 72°47'22.9"E
			Y: 73°31'12.8"E		GGPS, Kolian	30	33°47'06.9"N 72°48'09.7"E
513	GGPS Dhok Gala	30	X: 33°35'55.0"N	525	GGPS, Ehata turbila	60	33°47'52.6"N 72°47'57.1"E
			Y: 73°23'56.2"E		GMS, Salar Gah	105	33°48'18.2"N 72°51'24.3"E
514	GGPS Dolian	45	X: 33°34'35.7"N	526	GGPS, Wannu	60	33°37'23.9"N 72°56'42.5"E
			Y: 73°23'35.2"E		GGPS, Dhoke Malrian	45	33°39'22.8"N 72°47'49.8"E
515	GGPS Dupri	45	X: 33°34'29.9"N	527	GGPS, Dhoke Zaindi	45	33°38'58.4"N 72°45'30.2"E
			Y: 73°24'42.1"E		GMS, Badhana Khurad	60	33°37'28.2"N 72°56'35.3"E
516	GGPS Gagari	30	X: 33°34'01.7"N	528	GGPS, Islampur	45	33°50'14.5"N 72°44'40.7"E

			Y: 73°25'01.1"E		GMPS, DK. WAJAN	90	33°43'20.2"N 72°48'48.8"E
529	GGPS Gala Glori	30	X: 33°36'48.0"N	542	GGES Lower Chalawara	150	X: 33°51'26.1"N
			Y: 73°24'54.6"E				Y: 73°31'19.3"E
530	GGPS Garan	45	X: 33°31'27.4"N	543	GGES Bagga	120	X: 33°39'24.6"N
			Y: 73°20'55.0"E				Y: 73°22'47.2"E
531	GGPS Hail Jamiri	30	X: 33°31'09.6"N	544	GGES Bassi	100	X: 33°52'32.5"N
			Y: 73°15'09.4"E				Y: 73°34'34.4"E
532	GMPS Mori Syeda	60	X: 33°39'33.1"N	545	GGES Chaint	175	X: 33°44'36.4"N
			Y: 73°22'04.8"E				Y: 73°28'28.3"E
533	GGPS hanesar	30	X: 33°35'13.7"N	546	GGES Thoon	210	X: 33°46'58.1"N
			Y: 73°29'00.3"E				Y: 73°33'11.4"E
534	GGPS Nai Abadi	30	X: 33°35'33.5"N	547	GGES Mallot Sattian	90	X: 33°54'40.3"N
			Y: 73°33'35.0"E				Y: 73°26'23.1"E
535	GGPS Nogran	45	X: 33°34'29.9"N	548	GGES Surba	120	X: 33°47'35.8"N
			Y: 73°24'43.9"E				Y: 73°24'29.4"E
536	GGPS Sai	30	X: 33°28'45.0"N	549	GGES Chowki Waghal	50	X: 33°52'40.5"N
			Y: 73°21'13.1"E				Y: 73°32'12.9"E
537	GGPS Slamber	30	X: 33°39'46.4"N	550	GGES Barhad	110	X: 33°47'19.8"N
			Y: 73°29'09.7"E				Y: 73°31'39.3"E
538	GGPS Salgran	45	X: 33°30'06.7"N	551	GGES Barrian Pethora	90	X: 33°54'51.9"N
			Y: 73°34'26.9"E				Y: 73°33'37.0"E
539	GGPS Samblah	30	X: 33°39'29.5"N	552	GGES Biaga	150	X: 33°46'29.2"N
			Y: 73°24'08.0"E				Y: 73°27'25.2"E
540	GGPS Sung	45	X: 33°40'39.9"N	553	GGES Karl	100	X: 33°48'09.0"N
			Y: 73°23'22.3"E				Y: 73°28'22.5"E

541	GGPS Sanj	30	X: 33°34'14.5"N	554	GGES Danoi	130	X: 33°45'32.5"N
			Y: 73°34'37.0"E				Y: 73°30'42.5"E
555	GGPS Sarot	45	X: 33°32'21.9"N	567	GGES Samlati	30	X: 33°44'13.8"N
			Y: 73°26'32.3"E				Y: 73°35'29.3"E
556	GGPS Sundal	30	X: 33°35'05.7"N	568	GGES Kethola	80	X: 33°5440.3"N
			Y: 73°33'13.4"E				Y: 73°54'40.3"E
557	GGPS Sunglour	45	X: 33°31'57.3"N	569	GMPS Banni Seri	60	X: 33°46'42.0"N
			Y: 73°30'58.3"E				Y: 73°24'26.4"E
558	GGPS Tangi	45	X: 33°36'18.9"N	570	GGPS Kharang	45	X: 33°50'15.7"N
			Y: 73°23'39.8"E				Y: 73°30'17.4"E
559	GGPS Otrina	30	X: 33°31'09.0"N	571	GGPS Jawa	50	X: 33°51'50.5"N
			Y: 73°15'17.5"E				Y: 73°34'20.9"E
560	GMPS Janjor	60	X: 33°33'15.1"N	572	GGPS Kahni	40	X: 33°46'00.6"N
			Y: 73°25'29.2"E				Y: 73°25'52.3"E
561	GGPS Jantra	30	X: 33°40'39.9"N	573	GGPS Kahuti	90	X: 33°45'32.5"N
			Y: 73°23'22.3"E				Y: 73°30'42.5"E
562	GGPS Janhattal	60	X: 33°33'33.6"N	574	GGPS Kallan	35	X: 33°47'54.9"N
			Y: 73°34'29.8"E				Y: 73°31'12.1"E
563	GGPS Jewera	30	X: 33°36'03.2"N	575	GGPS Kamkot Haider	75	X: 33°45'52.3"N
			Y: 73°31'18.6"E				Y: 73°28'09.3"E
564	GGPS Kalyari	45	X: 33°47'55.5"N	576	GGPS Kondol	30	X: 33°45'21.1"N
			Y: 73°22'48.0"E				Y: 73°33'19.4"E
565	GGPS Lower Dhirkot	45	X: 33°52'38.1"N	577	GGPS Kotli Sattian	80	X: 33°50'40.5"N
			Y: 73°29'33.2"E				Y: 73°31'18.0"E
566	GGPS Lower Kotli	50	X: 33°48'13.4"N	578	GGPS Mouri Dewan	60	X: 33°47'07.9"N

			Y: 73°31'26.6"E				Y: 73°25'25.5"E
579	GGPS Mateel	60	X: 33°48'32.2"N	592	GGCMS Biah	120	X: 33°47'55.2"N
			Y: 73°29'50.2"E				Y: 73°31'12.3"E
580	GGPS Mora Malal	60	X: 33°47'55.5"N	593	GGPS Balawara	50	X: 33°50'08.4"N
			Y: 73°29'48.6"E				Y: 73°30'54.0"E
581	GGPS Nala Khas	40	X: 33°35'03.1"N	594	GGPS Ban Rajiah	40	X: 33°47'55.3"N
			Y: 73°04'01.2"E				Y: 73°31'12.5"E
582	GGPS Nala Kukar Dhar	30	X: 33°53'45.3"N	595	GGPS Chajana Khas	40	X: 33°54'44.3"N
			Y: 73°31'47.6"E				Y: 73°31'29.0"E
583	GGPS Narnat	70	X: 33°54'40.3"N	596	GGPS Chewra	45	X: 33°49'36.2"N
			Y: 73°26'23.1"E				Y: 73°31'50.9"E
584	GGPS Namb Dara	45	X: 33°51'07.9"N	597	GGPS Danna Narat	30	X: 33°53'33.1"N
			Y: 73°33'39.5"E				Y: 73°30'10.3"E
585	GGPS Ojna	45	X: 33°58'40.3"N	598	GGPS Dilhore	45	X: 33°40'39.9"N
			Y: 73°29'37.4"E				Y: 73°23'22.3"E
586	GGPS Korina Kallan	60	X: 33°49'19.1"N	599	GGPS Dhanda	60	X: 33°54'15.2"N
			Y: 73°32'28.7"E				Y: 73°30'48.9"E
587	GGPS Pallay	55	X: 33°45'37.6"N	600	GGPS Dheer Gran	30	X: 33°47'06.0"N
			Y: 73°35'28.0"E				Y: 73°29'48.5"E
588	GGMPS Prindla	30	X: 33°34'27.0"N	601	GGPS Dhirkot Kethwalan	30	X: 33°54'40.3"N
			Y: 73°31'58.0"E				Y: 73°26'23.1"E
589	GGPS Salooni	30	X: 33°42'46.5"N	602	GGPS Ghanoian	30	X: 33°43'05.1"N
			Y: 73°26'51.5"E				Y: 73°26'50.2"E
590	GGMPS Sangri	50	X: 33°46'05.0"N	603	GGPS Gulyal	35	X: 33°52'42.0"N
			Y: 73°28'50.0"E				Y: 73°32'41.4"E

591	GGPS Santh Saroola	60	X: 33°50'55.1"N	604	GGPS Hill Topa	40	X: 33°52'48.3"N
605	GGMPS Sarmandal	60	X: 33°49'50.9"N	617	GGPS Upper Chalawara	40	X: 33°51'26.1"N
			Y: 73°30'13.3"E				Y: 73°31'19.3"E
606	GGPS Silla Syedan	40	X: 33°47'54.2"N	618	GGPS Kamra-I	35	X: 33°45'32.5"N
			Y: 73°31'11.8"E				Y: 73°30'42.5"E
607	GGMPS Seri	60	X: 33°51'13.3"N	619	GGMPS Kamra-II	40	X: 33°44'44.9"N
			Y: 73°31'03.4"E				Y: 73°30'33.9"E
608	GGPS Waghla	35	X: 33°53'06.5"N	620	GGCMS Darnioan	30	X: 33°47'42.5"N
			Y: 73°31'03.4"E				Y: 73°29'34.0"E
609	GGPS Jandala	45	X: 33°42'03.4"N	621	GGPS Mora Moza Ghanioan	45	X: 33°43'46.7"N
			Y: 73°25'44.4"E				Y: 73°27'56.9"E
610	GGPS Chapri Paneola	30	X: 33°54'51.6"N	622	GGPS Morlay	30	X: 33°46'07.3"N
611	GGPS Dhangran	20	X: 33°51'37.5"N	623	GGPS Palli	30	X: 33°41'23.2"N
			Y: 73°31'11.1"E				Y: 73°23'32.1"E
612	GGPS Aryari	35	X: 33°46'18.0"N	624	GGPS Dehgal	20	X: 33°42'53.0"N
			Y: 73°25'29.4"E				Y: 73°29'13.0"E
613	GGCMS Santh Anwali	90	X: 33°54'45.5"N	625	GMPS Baren	35	X: 33°53'48.6"N
614	GGPS Badnian	30	X:33°28'33.4" N	626	GMPS Auranga	30	X: 33°49'39.2"N
							Y: 73°33'32.3"E
615	GGPS Behl Chakka	45	X: 33°39'24.6"N	627	GMPS Bissa	40	X: 33°47'56.3"N
			Y: 73°22'47.2"E				Y: 73°31'12.3"E
616	GGPS Bamlehri	40	X: 33°47'54.3"N	628	GGPS Askeer	40	X: 33°46'41.1"N
			Y: 73°31'13.4"E				Y: 73°26'01.0"E

Annex II: List of hazard prone villages/ Revenue Estate (NAMES Required)

Hazards	Tehsils	UCs	Names of Revenue Estates	Names of Villages
Floods/ Urban Flooding	Rawal Town & Pothohar Town		i. Dhoke Naju. ii. Zia ul Haq Colony. iii. Both sides of Bridge at Ratta. iv. Bhosa Godown. v. Mohan Pura near Jinnah Road Bridge. vi. Javed Colony Tipu Road Chaman Zar Colny, Nadeem Colony. vii. Dhoke Chiragh Din (Cantt. Board). viii. New Phagwari. ix. Mohallah Raja Sultan. x. Gowalmandi. xi. Dhoke Elahi Bukhsh.	
Land Slides	Kahuta	1. Narar 2. Punjar 3. Beor 4. Khadiote	1. Narar 2. Punjar 3. Beor 4. Sang	1. Village Zareen Narar, Brohi, Chak Sansoo, Soon 2. Village Barathian, kultia Mouza Punjar 3. Village Changarr, Soor, Sanj, Broot Mouza Beor 4. Dhaletre Road, Hail Jamri Birbarian Mouza Sang.
	Kotli Sattian	1. Karore 2. Bhattian 3. Lehtar 4. Dhirkot Sattian 5. Waghla		1. Village Kallan Basand 2. Village Thoon, Danoi 3. Village Chhant, 4. Chalwara 5. Dhanda

Annex III: List of Health Facilities and their vulnerability to Hazards

S#	Name	Location	GPS Coordinates	Health Facility		Hazard Vulnerability (Floods, Earthquake etc.)
				Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	
1	BHU BEWAL	Gujar Khan	33.3354786	Primary	0322-5270956	Earthquake
2	BHU BHADANA	Gujar Khan	33.2866377	Primary	0300-9831367	Earthquake
3	BHU BHAWALY	Gujar Khan	33.143633	Primary	0332-9682216	Earthquake
4	BHU BUCHIAL	Gujar Khan	33.3123279	Primary	0300-5394552	Earthquake
5	BHU CHANGA MIRA	Gujar Khan	33.3292295	Primary	0334-1555716	Earthquake
6	BHU DERA BAKHSIAN	Gujar Khan	33.2027543	Primary	0301-5078244	Earthquake
7	BHU DEVI	Gujar Khan	33.2028143	Primary	0336-2781980	Earthquake
8	BHU DHOONG	Gujar Khan	33.1066603	Primary	0331-5841630	Earthquake
9	BHU GULYANA	Gujar Khan	33.2025343	Primary	0348-7993266	Earthquake
10	BHU JAJJA	Gujar Khan	33.2734707	Primary	0345-4288946	Earthquake
11	BHU JAND MEHLU	Gujar Khan	33.2267258	Primary	0334-3055033	Earthquake
12	BHU JATLI	Gujar Khan	33.21075	Primary	0314-9500194	Earthquake
13	BHU JARMOT KALAN	Gujar Khan	33.1392633	Primary	0307-3195343	Earthquake
14	BHU JHOUNGAL	Gujar Khan	33.2654381	Primary	0304-5668213	Earthquake
15	BHU KAUNTRILLA	Gujar Khan	33.1315225	Primary	0345-8093158	Earthquake
16	BHU KISRAN	Gujar Khan	33.087334	Primary	0342-5900012	Earthquake
17	BHU KURAM BALUCH	Gujar Khan	33.2578274	Primary	0333-5162771	Earthquake
18	BHU KURI DALAL	Gujar Khan	33.3952949	Primary	0334-5185885	Earthquake
19	BHU MANKIALA BREHMANA	Gujar Khan	33.2361022	Primary	0333-6076207	Earthquake
20	BHU MIANA SATTIAL	Gujar Khan	33.0948446	Primary	0345-5315193	Earthquake
21	BHU POTHI BIJNIAL	Gujar Khan	33.3495053	Primary	0333-5565331	Earthquake
22	BHU RAMMAY	Gujar Khan	33.1519603	Primary	0345-5963198	Earthquake
23	BHU SAHANG	Gujar Khan	33.2906623	Primary	0322-8242719	Earthquake
24	BHU SANGOORI	Gujar Khan	33.3991817	Primary	0333-5170796	Earthquake
25	BHU SUI CHEEMIAN	Gujar Khan	33.367837	Primary	0345-5274571	Earthquake
26	BHU SUKHO	Gujar Khan	33.2484913	Primary	0345-5488526	Earthquake
27	BHU SUSRAL	Gujar Khan	33.1516929	Primary	0340-5662341	Earthquake
28	BHU THATHI	Gujar Khan	33.2645461	Primary	0302-6782268	Earthquake
29	RHC DAULTALA	Gujar Khan	33.1915492	Primary	0334-5440232	Earthquake

S#	Name	Location	GPS Coordinates	Health Facility		Hazard Vulnerability (Floods, Earthquake etc.)
				Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	
30	RHC MANDRA	Gujar Khan	33.3559766	Primary	0333-5184462	Earthquake
31	RHC QAZIAN	Gujar Khan	33.2994794	Primary	0300-5135024	Earthquake
32	BHU BEOR	Kahuta	33.5748678	Primary	0336-4444127	Earthquake
33	BHU DAKHALI	Kahuta	33.537448	Primary	0300-5175062	Earthquake
34	BHU HANESER	Kahuta	33.5905105	Primary	0321-5842495	Earthquake
35	BHU MATORE	Kahuta	33.5275	Primary	0306-0532699	Earthquake
36	BHU MAWARA	Kahuta	33.5549121	Primary	0349-5077705	Earthquake
37	BHU NARA	Kahuta	33.5426974	Primary	0336-5111840	Earthquake
38	BHU NARAR	Kahuta	33.2446689	Primary	0336-9534991	Earthquake
39	BHU PUNJAR	Kahuta	33.645485	Primary	0332-5523516	Earthquake
40	BHU SAMBLA	Kahuta	33.6629399	Primary	0301-5296299	Earthquake
41	BHU THOHA KHALSA	Kahuta	33.5080876	Primary	0321-5185967	Earthquake
42	BHU BAKHRAL	Kallar Sayedan	33.4767451	Primary	0331-5436275	
43	BHU BALAKHAR	Kallar Sayedan	33.4554203	Primary	0301-5359031	
44	BHU BISHANDOT	Kallar Sayedan	33.4530406	Primary	0334-1051171	
45	BHU CHOA KHALSA	Kallar Sayedan	33.4113613	Primary	0345-5098706	
46	BHU DOBERAN KALAN	Kallar Sayedan	33.4445822	Primary	0345-5290392	
47	BHU KAMKOT HAIDER	Kotli Sattian	33.7667914	Primary		
48	BHU NALA MUSALMANA	Kallar Sayedan	33.4481171	Primary	0305-8002648	Flood Came at Boundaries of UC Nala
49	BHU PHALINA	Kallar Sayedan	33.4085763	Primary	0333-5742910	
50	BHU SAMOTE	Kallar Sayedan	33.3413883	Primary	0322-5255294	
51	BHU SIR SUBA SHAH	Kallar Sayedan	33.3974098	Primary	0331-5342282	Flood Came at Banahal Every Year
52	BHU DARNAYAN	Kotli Sattian	33.8026303	Primary	3467465346	Building damage due to Earthquake
53	BHU DHANDA	Kotli Sattian		Primary	3338000547	Building damage due to Earthquake
54	BHU KAROR	Kotli Sattian	33.7358493	Primary		
55	BHU KOT SIYAH	Kotli Sattian	33.8689721	Primary	3425218838	Building damage due to Earthquake
56	BHU MALOT SATTIAN	Kotli Sattian	33.8965291	Primary		
57	BHU SANTH SAROOLA	Kotli Sattian	33.8484102	Primary		

S#	Name	Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
58	BHU THOON	Kotli Sattian		Primary	3421460716	Building damage due to Earthquake
59	RHC LEHTRAR	Kotli Sattian	33.7122321	Primary		
60	BHU BAN	Murree	33.8189167	Primary	0304-9088800	
61	BHU CHARHAN	Murree	33.8726199	Primary	0333-6002392	Earthquake (the whole building was damaged
62	during the earthquake of 2005)					
63	BHU DEWAL	Murree	34.0174245	Primary	0315-5367331	
64	BHU GEHAL	Murree	33.9048636	Primary	0345-5326528	Earthquake (the whole building was damaged
65	during the earthquake of 2005)					
66	BHU GORA GALI	Murree	33.8892517	Primary	0333-5750132	Earthquake (the building was damaged
67	during the earthquake of 2005)					
68	BHU KALI MITTI	Murree	33.9590353	Primary	0300-5520574	
69	BHU MENGAL	Murree	33.7502629	Primary	0335-6088812	
70	BHU NUMBAL	Murree	33.8735372	Primary	0345-6468849	Earthquake (the building was damaged
71	during the earthquake of 2005)					
72	BHU PAHAPHRIL	Murree	33.8600296	Primary	0301-4986638	
73	BHU POTHA SHARIF	Murree	33.9462787	Primary	0302-5216422	
74	BHU Rawat	Murree	33.9644963	Primary	0332-5448883	Earthquake (the building was damaged
75	during the earthquake of 2005)					
76	BHU SAMBLI BERAMAL	Murree	33.8303536	Primary	0300-9561219	
77	BHU SEHR BAGLA	Murree	33.9194083	Primary	0334-6142743	
78	BHU CHAKRI	Rawalpindi	33.2951163	Primary	0323-4943271	Earthquake
79	BHU CHAPPAR	Rawalpindi	33.4115267	Primary	0300-9855597	Earthquake & Flood
80	BHU DHOK BUDHAL	Rawalpindi	33.3454371	Primary	0345-4099347	Earthquake

S#	Name	Location	GPS Coordinates	Health Facility		Hazard Vulnerability (Floods, Earthquake etc.)
				Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	
81	BHU DHOK PARH	Rawalpindi	33.5102095	Primary	0345-5874871	Earthquake
82	BHU DHUDIAN	Rawalpindi	33.4034142	Primary	0334-2833088	Earthquake
83	BHU DHULIAL JANDOO	Rawalpindi	33.3488382	Primary	0300-9879920	Earthquake
84	BHU GIRJA	Rawalpindi	33.571619	Primary	0300-6212162	Earthquake
85	BHU HARNIAWALA	Rawalpindi	33.2357681	Primary	0323-8502375	Earthquake
86	BHU HAYAL SHARIF	Rawalpindi	33.5417587	Primary	0300-5465517	Earthquake
87	BHU JABBAR DERVISH	Rawalpindi	33.3589047	Primary	0332-6840601	Earthquake
88	BHU KARAH MIAL	Rawalpindi	33.2066	Primary		Earthquake
89	BHU KOLIAN HAMEED	Rawalpindi	33.3191651	Primary	0333-5550302	Earthquake
90	BHU KOTHA KALAN	Rawalpindi	33.5505832	Primary	0345-5255448	Earthquake
91	BHU LODHRAN	Rawalpindi	33.4800249	Primary	0335-5325140	Earthquake
92	BHU MISRIAL	Rawalpindi	33.2184335	Primary	0302-9562235	Earthquake
93	BHU RANOTRA	Rawalpindi	33.2064056	Primary	0332-5171110	Earthquake
94	BHU REHMATABAD	Rawalpindi	33.5913724	Primary	0302-5184299	Earthquake
95	BHU ROOPER KALAN	Rawalpindi	33.2652038	Primary	0314-5155816	Earthquake
96	BHU SAGRI	Rawalpindi	33.4748581	Primary	0336-5373809	Earthquake
97	BHU TAKHAT PARHI	Rawalpindi	33.4747678	Primary	0345-0536010	Earthquake
98	RHC BAGGA SHEIKHAN	Rawalpindi	33.4686993	Primary	0300-5294399	Earthquake
99	RHC CHOUNTRA	Rawalpindi	33.3506781	Primary	0333-6469573	Earthquake & Flood
100	RHC KHYABAN-E-SIR SYED	Rawalpindi	33.6333137	Primary	0343-1247589	Earthquake
101	BHU BREHMA	Taxila	33.7372725	Primary	0334-5757232	Earthquack
102	BHU BUDHO	Taxila	33.8025789	Primary	0304-4525204	Earthquack
103	BHU LAB THATHO	Taxila	33.8558526	Primary	0315-2333695	Earthquack
104	BHU PIND NOWSHERI	Taxila	33.6621898	Primary	0322-8500114	Earthquack
105	BHU SALARGAH	Taxila	33.8044542	Primary	0334-5119553	Earthquack, Blasting for crush
106	BHU USMAN KHATAR	Taxila	33.7930836	Primary	0302-4885256	Earthquack
107	Wah General Hospital, Taxila	Taxila	33.783184	Secondary	0321-5715002	No previous history of Flood
108	Earthquake measured before					

S#	Name	Location	GPS Coordinates	Health Facility Type (Primary, Secondary, Tertiary)	Name and Contact No of Focal Person	Hazard Vulnerability (Floods, Earthquake etc.)
	2 month 4.5 Richter Scale					
109	THQ Hospital Kahuta	Kahuta	33.596944	Secondary	0300-9118346	Earthquake
110	THQ Hospital Taxila	Taxila	33.745889	Secondary	0332-6754277	Eatthquake
111	THQ Hospital Murree	Murree	33.907774	Secondary	0321-9360535	Eatthquake
112	THQ Hospital Kotli Sattian	Kotli Sattian	33.7932206	Secondary	0312-6591402	Eatthquake

Annex IV: List of vulnerable Educational institutions

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GGPS DHIAN+D4:E27PUR	PRIMARY	X: 33°36'05.3 Y: 73°31'12.8	20	Shamim Akhter	3235064735
2	GMPS Pirwala	Primary	X: 33°34'24.4"N Y: 73°35'41.5"E	78	Noshaba Akbar	3425159279
3	GGES Chowki Waghal	Middle	X: 33°52'40.5 Y: 73°32'12.9	170	Samreena Musarrat	3435049189
4	GGPS Kahni	Primary	X: 33°46'00.6"N Y: 73°25'52.3"E	31	Naheeda Shaheen	3411100365
5	GGPS Salooni	Primary	X: 33°42'46.5 Y: 73°26'51.5	39	Frazia Kousar	3475114585
6	GGPS Morian	Primary	X: 33°54'38.4"N Y: 73°30'58.8"E	60	Jamila Parveen	3035020140
7	GGPS Kondol	Primary	X: 33°45'21.1 Y: 73°33'19.4	40	Ayesha Bi Bi	3101884407
8	GMPS Banni Seri	Primary	X: 33°46'42.0"N Y: 73°24'26.4"E	67	Musfeen Akhtar	3325576299
9	GMPS Bareen	Primary	X: 33°53'48.6 Y: 73°32'14.2	110	Tahira Mehmood	3425621853
10	GMPS Auranga	Primary	X: 33°49'39.2"N Y: 73°33'32.3"E	27	Sadia Khatoon	3400583890
11	GGPS Less Kotli	Primary	X: 33°49'09.7 Y: 73°33'03.7	54	Subhana Noureen	3455973684
12	GGPS Korina Kallan	Primary	X: 33°49'19.1"N Y: 73°32'28.7"E	65	FOZIA Khatoon	3435036883
13	GGMPS THALA	Primary	x:33°32'24.7" N y: 73°19'33.4"E	71	Mst Jannat Khatoon	3340537573
14	GGPS ARAZI KALLAR	Primary	x:33°20'39.0" N y:73°28'07.2"E	66	Mst Aniq Bashir	3235665192
15	GGPS PALALA MULA KHAN	Primary	x:33°21'28.0" N y:73°33'13.7"E	59	Aqeela Shabir	3035867142

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
16	GGPS RAJDAHANI	Primary	x:33°43'33.7" N y: 73°45'58.1"E	39	Shazia Bibi	3345055498
17	GGMPS SADA KAMAL	Primary	x:33°26'12.1" N y:73°28'00.1"E	59	Adeela Nawaz	3038722822
18	GGPS MIRAN BUKSH	Primary	x:33°20'39.0" N y:73°28'07.2"E	37	Ruqaiya Bibi	3345312812
19	GGPS DARKALI MEHMOORI	Primary	x:33°22'47.3" N y: 73°20'12.5"E	93	Nosheen Nazli	3145345732
20	GGPS PALALA SYEDAN	Primary	x:33°27'18.6" N y:73°27'47.8"E	140	Shenaz Ejaz	3075316443
21	GGPS BAGH JAMIRY	Primary	x:33°29'03.0" N y:73°29'03.4"E	25	Shehnaz Akhter	3065293850
22	GGPS DROGHA HASSAN ALI	Primary	73.15865E 33.4103 W	80	SADIA BIBI PST	3445075482
23	GGPS DEEDAR NAJJAR	Primary	73.24212 E 33.50552 W	69	SAIRA BIBI PST	3129486662
24	GMPS THALLA KALAN	Primary	72.94876 E 33.2031 W	119	SUGHRA BIBI PST	3445528672
25	GMPS DK MIRZA	Primary	72.94876 E 33.31547 W	180	FOKIYA BIBI ESE	3365189501
26	GGPS TALLA BAJJAR	Primary	72.96259 E 33.3502 W	121	MEHWISH KIYANI ESE	3065524607
27	GGPS HOON	Primary	72.95021 E 33.36325 W	71	RABIA BASSRI PST	3120895029
28	GMPS BHARWALA	Primary	73.26956 E 33.51911 W	60	ROBINA BIBI EST	3235586629
29	GGES JHUMMAT	ELEMENTARY	73.2631 E 33.46038W	247	NAEEM SULTANA SST	3325151668
30	GGES DAKALA	ELEMENTARY	73.234113 E 33.467047 W	170	SAJIDA PERVEEN EST	3456672044
31	GGES CHAK BELI KHAN	ELEMENTARY	72.91005 E 33.23263 W	241	ROBINA SHAHEEN SST	3321295988
32	GBHSS, ADHWAL	H/S	33°19'27.1"N 72°55'29.1"E	305	M. SHAHZAD	03465318932
33	GBHS, MADRISSA MILLIA ISLAMIA	H/S	33°38'41.5"N 73°03'39.4"E	650	DR. MUHAMMAD NAEEM ULLAH BAJWA	03335103657
34	G CHRISTIAN HSS	H/S	33°36'48.1"N 73°03'22.7"E	399	MUZAFFAR KHAN	03335142452
35	GGES JHUMMAT	Primary			DEO(SE) Concerned.	051-5535935

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
36	GGES DAKALA	Primary			DEO(SE) Concerned.	051-5535935
37	GGES CHAK BELI KHAN	Primary			DEO(SE) Concerned.	051-5535935
38	GBHS Ghora	High			DEO(SE) Concerned.	051-5535935
39	GGHSS Chak Beli Khan	High			DEO(SE) Concerned.	051-5535935
40	GGHS Dhanda	High			DEO(SE) Concerned.	051-5535935
41	GGHS Bhall	High			DEO(SE) Concerned.	051-5535935
42	GGHS Dhamial	High			DEO(SE) Concerned.	051-5535935
43	GGHS Parial	High			DEO(SE) Concerned.	051-5535935
44	GGHS Chakiri	High			DEO(SE) Concerned.	051-5535935
45	GGHS Saroba	High			DEO(SE) Concerned.	051-5535935
46	GGHS Rajar	High			DEO(SE) Concerned.	051-5535935
47	GGHS Girakh Pur	High			DEO(SE) Concerned.	051-5535935
48	GGHS Kolian Hameed	High			DEO(SE) Concerned.	051-5535935
49	GGHS Dheri Hassababad	High			DEO(SE) Concerned.	051-5535935
50	GGHS No.2, Anwar Ul Islam Barf Khana Chowk	High			DEO(SE) Concerned.	051-5535935
51	Govt. Kohnor GHS, RWP	High			DEO(SE) Concerned.	051-5535935
52	GGHS F. Block Satellite Town	High			DEO(SE) Concerned.	051-5535935
53	GGHS Sadrabad	High			DEO(SE) Concerned.	051-5535935
54	GGHS Alpha Christian, GHS	High			DEO(SE) Concerned.	051-5535935
55	GGHS NO.2 , Murree Road	High			DEO(SE) Concerned.	051-5535935
56	GGHS Arya Mohallah	High			DEO(SE) Concerned.	051-5535935
57	GGHS Simlia Islamia, B.Block Satellite Town	High			DEO(SE) Concerned.	051-5535935

Annex V: List of Industries with their risk level

S#	Industry Name	Location	GPS Coordinates	Risk Type (Chemical, Biological, Radiological, Nuclear)	Name and Contact of Focal Person	Risk Level (low, medium, high)	Prone to Hazard? Fire/ Floods/ Earthquake
1	Khurram Flour Mills Westridge, Rawalpindi	Rawalpindi		Earthquake		Medium	
2	Habib Flour Mills Ratta	Rawalpindi		Flood		Medium	
3	Boc Gases Near AWC Mohra Chowk	Rawalpindi		Fire		Medium	

Annex VI: List of NGO working in the District

S#	NGO Name	NGO Type (Local, National, International)	Location where they are working	Sector/Cluster of work (e.g. WASH, Health, Education)	Focal Person Name	Contact No.
1	Mother Welfare Foundation	Local	Tehsil Road, Gujjar Khan	Vocational/ Computer	Raja Irfan	0300-9545622
2	HILS Welfare Society	Local	Gujjar Khan	Dispensary	Abid Khan	0300-9505802
3	Al-Barak Welfare Organization chamanzar Rawalpindi	Local	NE/137, St # 8, Minhas House, Chaman Zar Colony, RWP	Women Welfare	Mrs. Farah Deeba	0301-5448390
4	Anjuman Faiz-ul-Islam Faizabad Rawalpindi	Local	Faizabad, RWP	Education, Awareness	Mian Saddique Akbar	051-4840888
5	Tehsil Anti T.B Association	Local	Gujjar Khan	Medical Services	Babu Qadoos	0300-5397933
6	Anjuman e Behbood e Marizan	Local	Gujjar Khan	Medical Services	Raja Adalat	
7	Gujjar Khan Art Council	Local	Gujjar Khan	Cultural Activities	Abdur Rahman	0300-5595177
8	Azmat Wefare Foundation	Local	Gujjar Khan		Haji Yaqoob Hussain	0345-5612168
9	Hasna Welfare & Development Organization 148 Millat Colony Raalpindi	Local	Committee Chowk	disability	Mrs. Rozeena Khaliq	0300-5122001
10	Behbood Association of Pakistan tipu Road	Local	NE-2D/1, Tipu Road, RWP	Women Welfare	Mrs. Akhtar Riaz	051-5962103
11	Rawalpindi Eye Donor Organization Kuri Road Rawalpindi	Local	Old Naz Cenima, Muree Road, RWP	Health	Capt® Maqbool Ahmad	051-5503233
12	Life Support Organization	Local	Mohra Topian Gujjar Khan	Health	Hameeda Inam	0333-5283348
13	Social Welfare Council, Taxila	Local	Taxila	Industerial Home	Azmat Khan	0333-1534907
14	Anjuman Falah-e-Millat	Local	Shan Colony Muslim Town	Health	Syed Asghar Ahmad	051-2827262
15	Ahsas Welfare Foundation	Local	Kehkshan Plaza Committee Chowk	Women Welfare	Ilyas Ch	0335-8400845
16	Kidney Patient Association	Local	Tahli Mori	Hospital	Gen (R)Sarfraz	0300-5164119
17	Students Welfare Society	Local	Tench Bhata	Vocational Centre	Attiq-ur-Rehman	0334-5029884
18	Haleema Welfare Foundation	Local	-----	Industerial Home	Saeed Pervaiz	0336-5128595
19	Attock Sahara Foundation	Local	Morgah, Rwp	Vocational Centre	Adil Khattak	0300-5776426
20	Reality Welfare Organization	Local	Gawal Mandi, Rwp	Medical Services	Asghar Shad	0333-5101977

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.
21	Tanzeem Behbood Mareezan e	Local	Holy Family Hospital, R#157	Medical Services	Sharjeel Mir	0333-5188292
22	Patient Welfare Society	Local	DHQ Hospital, Rwp	Medical Services	Ch. Ishrat	0314-9546301
23	Pakistan National Heart Patients Welfare Association	Local	Saddar, Rwp	Health	Dr. Abdul Qayyum Awan	051-9271002
24	Social Research Welfare Organization	Local	F-1017 Satellite Town, Rwp	Medical Services	Raja Abid	0321-8501062
25	Sade Welfare Foundation	Local	N-604, Jhangi Mohallah, Rwp	Vocational	Saeedy Begum	0306-5338734
26	Baghban Organization for Social Services	Local	Dhoke Khabba, Rwp	Vocational/ Medical	Shaukat Ali Qureshi	0333-5161063
27	Social Welfare Society	Local	Chittian Hattian, Rwp	Medical Services	Saleem Altaf	0313-5120747
28	Green Task Force City Lab	Local	City Lab, Murree Road, Rwp	Tree Plantation	Dr. Jamal Nasir	051-4847390
29	Al Muawen Welfare Organization	Local	Bakra Mandi, Rwp	Clinic & Vocation Centre	Syed Hafeez Sajid	0300-9548416
30	Roots Educational & Welfare Society	Local	Harley Street	Schools	Col ® Mushtaq Rasool Chaudary	0300-5125095
31	namood -e-sehr Welfare Foundation	Local	Mughalabad, Rwp	Vocational Centre	Mrs. Rubina Akbar	0321-5102992
32	Dua Welfare Organization	Local	Dhoke Kashmirian	Women Welfare	Mrs. Robina	-----
33	Reaching Out Welfare Organization	Local	Airport Road, Rwp	Vocational Center	Ms. Misbah Attique	0301-3002720
34	Minority Rights (SEVA) Foundation	Local	Mughalabad	General	Pandat Channa Lal	0333-5568708

Annex VII: Contact list of main stakeholders / Departments

S#	Designation	Person Name	Telephone (Office)	Telephone (Residential)	Mobile
1	Focal Person for Disasters	Dr. Abdur Rahman	9290121	9291199	0333-4471122
2	Commissioner	Nadeem Aslam	9292507		
3	Deputy Commissioner	Talat Mehmood	9292530-31	9292732-33	
4	City Police Officer	Mr. Afzaal Warich	9292630		0307-8883800
5	Additional Deputy Commissioner (R)	Behzad Adil	9292528		0340-5533952
6	Additional Deputy Commissioner (G)	Sarah Hayat	051-9292532		0300-5003119
7	DEO Rescue 1122	Dr. Abdur Rahman	9290121	9291199	0333-4471122
8	Civil Defence Officer	Miss. Sanjida Khanum	9292518		0334-5342058
9	Pakistan Metrological Department	Maj. Kaleem	051-9250360		0334-6163603
10	Managing Director (WASA)	Mr. Irfan	5539073		
11	Cantonment Board Rawalpindi	Abdul Aziz	9274407		
12	111 Brigade	Maj. Shazib			0334-4491945
13	DDEO (SE) Education	M. Shafaq-ur-Rehman	5554942		03005537763
14	Chief Executive Officer District Health Authority	Dr. Sohail Ahmed	4831965		0334-5172000
15	Chief Officer Zila Council	Serdar Naseem	9292708		

A2nnex VIII: List of Volunteers

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
1	Malik Liaquat Ali	37405-2599724-1	Syed pur Scheme Rwp	03325135380	O+ve	
2	Nasar Ullah Janjua	37405-0315971-7	Kareem Pura Rwp	03335497597	B+ve	
3	Sheikh Tabish Iqbal	37405-0583549-7	Range Rd Rwp	03219554555	A+ve	
4	Faheem Ullah Khan	37405-0672543-3	S. Town Rwp	03335200502	A+ve	
5	Sajjad Hussain	37405-3254006-3	Karem Abad Rwp	03335184853	B+ve	
6	Fayyaz Mughal	37405-3064531-3	Dhoke Paracha Rwp	03005595951	A+ve	
7	Ali Hassan Bandy	37405-0654643-5	S.Town Rwp	03009547406	A+ve	
8	Waqas Ansari	37405-0318076-9	-do-	03335415977	B+ve	
9	Wajid Razi Khan	37405-0290346-1	-do-	03215815488	A+ve	
10	Zaheer Ahmed Khan	37405-3599500-9	Dhoke Khaba Rwp	03355544417	B+ve	
11	Muhammad Umair Ansari	37405-9319233-1	Chistia Abad Rwp	03005300293	B+ve	
12	Liaq Ullah Khan	37405-2573256-1	Mehr Abad Rwp	03048997227	O+ve	
13	Faizan Malik	37405-2824376-1	Said pur Rwp	03345444499	O+ve	
14	M. Suleman Malik	37405-2824862-1	-do-	03344412226	O+ve	
15	Muhammad Azam Usmani	37405-3091715-7	S.Town Rwp	03335347893	B-ve	
16	Abid Hussain	37405-8704216-9	Muslim Town Rwp	03465283583	B+ve	
17	Atiq ur Rehman	37405-0506142-3	Karim Abad Rwp	03345212135	O-ve	
18	Ajmal Hussain	37405-5748709-1	Noor Muhammad Rd Rwp	03455244826	B+ve	
19	Zamir Ahmed	37405-0579310-1	Rahim Town Rwp	03455120716	O+ve	
20	Sajid Mehmood	37405-0579311-5	-do-	03456938493	AB+ve	
21	Naveed Zafar	61101-1962359-3	Murree Rd Rwp	03335111656	A+ve	
22	Hamza Malik	37405-8322229-9	Said pur Rwp	03335635564	O+ve	
23	M. Noman Arshad	37405-3251721-7	S.Town Rwp	03005029460	O+ve	
24	Noor Ullah Jan	37405-3478767-1	-do-	03315322440	AB+ve	
25	Zain Ahmed	37405-1594437-5	Tathi Moh. Rwp	03115530347	O+ve	
26	Muhammad Javed	37405-9302105-3	Gulshan Abad Rwp	03145277744	O+ve	
27	Amjad Ali Malik	37405-8587475-9	Said pur Rwp.	03335946480	O+ve	
28	Babar Hussain	37405-8485092-3	Kartarpur Rwp	03465006794	O+ve	

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
29	Malik Paikar Maqsood	37405-5789320-1	Westridge Rwp	0333-5113884	O+ve	
30	Ch. Muhammad Ijaz	37405-8959315-3	Chaklala Scheme-III	0300-9705070	B+ve	
33	Ch. Shoukat Ali		Tamasab Abad Rwp	0300-9509941		
34	Raja Amir Iqbal	37405-5792715-3	Peshawar Rd Rwp	0300-5551428	O+ ve	
35	Saeed Ur Rehman	37405-6916033-3	Satelite Town	0333-5335672	A+ve	
36	Syed Mukhtar Hussain Shah	37405-0473299-	Kashmiri Bazar Rwp	0300-5191331	O+ve	
37	Ch. Arif Mehmood	37405-0466095-3	Workshapi Mohallah Rwp	0333-5108780	B+ve	
38	Akhtar Subhani	37405-0246654-5	Dhoe Khaba Rwp	0321-5823917	AB+ve	
39	M.Hameed	37405-0541939-3	Dhoke Syedan Rwp	03455075943	A+ve	
40	Waqar Ahmad	37405-9363859-9	Tench Bhata Rwp	03125520150	AB+ve	
41	Sagheer Ahmad	37405-8205299-1	-do-	03003303464	O+ve	
42	Hamza Ali	37405-5530306-7	-do-	03453359135	A+ve	
43	Ali Riaz	37405-6956620-9	-do-	03335152495	B+ve	
44	Muhammad Shoaib	37405-8161430-7	Sadar Rwp	03225152212	B+ve	
45	Ghulam Mustafa	37405-0892722-2	-do-	03008359544	A+ve	
46	Muhammad Maqbool	37405-0259942-1	-do-	03445601355	A+ve	
47	Muhammad Nazir			03455219233		
48	Talha Saeed	37405-7633683-9	Sunder St. Rwp	03215445359	B+ve	
49	Muhammad Usman Butt	37405-1716394-5	Sadar Rwp	03360112326	O+ve	
50	Salah.ud.Din	37405-1604280-7	Cantt Rwp	03025021420	B+ve	
51	Muhammad Ishtiaq	37405-2839523-3	-do-	03225199390	O+ve	
52	Muhammad Qiaser	37405-0352974-3	Sadar Rwp	03315172007	O+ve	
53	Muhammad Yousaf	36102-1867941-3	-do-	03365374706	O+ve	
54	Mumtaz Hussain	37405-052736-7	Cantt Rwp	0300548950	A+ve	
55	Ijaz Hussain	37405-0522737-5	Cantt Rwp	03455218197	A+ve	
56	Sajjad Hussain	37405-5080033-5	-do-	03135668510	A+ve	
57	M. Adil Hussain	37405-5400770-9	-do-	03345502191	B+ve	
58	Rizwan Hussain	37405-4328677-7	Quaid-e-Azam Colony	03325034417	A+ve	

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
59	Muhammad Shabbir Raja	37405-0543897-3	Dhoke Thahtal Rwp	03455217068	O+ve	
60	Shaukat Ali	37405-7099532-3	Allama Iqbal Colony	03215089237		
61	Zafar Hussain	37405-0444254-5	Kamal abad Rwp	03348983330	A+ve	
62	Rana Muhammad Taj	37405-1295797-9	-do-	03335343475	A+ve	
63	Abdul Rasheed	37405-6301286-5	-do-	03345183219	O+ve	
64	Shujahat Hussain	37405-7015805-9	-do-	03075151703	A+ve	
65	Wajahat Hussain	37405-2812082-5	-do-	03075151703	O+ve	
66	Kamran Qiaser	37405-5790052-5	-do-	03130510400	O+ve	
67	Imran Mehmood	37405-6929416-3	Bakra Mandi	03435454817	A+ve	
68	Mehroz Shafiq	37405-3954583-1	Darya Abad Rwp	0321509148	B+ve	
69	Abid Majeed	37405-4523739-3	Gunj Mandi	03335169598	B+ve	
70	Muhammad Ashraf	35404-0428009-7	Darya Abad	03225579154	B+ve	
71	Amir Hussain			03015090431		
72	Abdul Hafeez	37405-6040040-5	Gunj Mandi	03009566512	B-ve	
73	Saboor Saeed	37405-3061914-3	Darya Abad	03335269859	B+ve	
74	Noman Abid	37405-9251659-3	-do-	03365569093	B+ve	
75	Aurangzaib	37405-0395043-3	-do-	03335198532	B+ve	
76	Raheel Abbas	37405-7385847-3	-do-	03465452637	B+ve	
77	Sohaib Mehboob	37405-6926320-7	-do-	03465387810	O+ve	
78	Subhan Saeed	37405-9812825-5	-do-	03088548579	B+ve	
79	M. Aslam Chohan	37405-3811398-9	Jhangi Mohallah	03335102625	O+ve	
80	Amir Shahzad	37405-1808267-3	Said pur Rwp	03015245150	O+ve	
81	Muhammad Naeem	37405-0526844-9	-do-	03335229218	A+ve	
82	Muhammad Iqbal	37405-0430948-9	-do-	03235539441	O+ve	
83	M. Sohail Chohan	37405-0683708-1	Said pur	03335108318	A+ve	
84	M. Irfan Chohan	37405-2541071-9	Jhangi Mohallah	03335258021	B+ve	
85	Munir Ahmed	37405-7260967-5	Hari Pura	03005503910	O+ve	
86	Muhammad Anwar	37405-5709265-3	Jhangi Mohallah	03110057469	O+ve	
87	Shahid Mehmood	37405-0249235-5	-do-	03325186934	A+ve	

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
88	Muhammad Suleman	37405-4000462-7	-do-	03335442824	B+ve	
89	Abdul Hafeez	33100-7008649-9	Raja Sultan Mohallah	03335267539	B+ve	
90	Adnan Chohan	37405-7301672-7	Jhangi Mohallah	03005355244	B+ve	
91	M. Tahir Chohan	37405-4031293-5	-do-	03335606231	B+ve	
92	Moeen Shahzad	37405-0370267-5	Dhoke Farman Ali	03009763048	O+ve	
93	Tariq Mehmood	37405-4183247-1	Workshapi Mohallah	03009773281	B+ve	
94	M. Fayyaz	37405-1655532-3	-do-	03015155130	B+ve	
95	M. Ali	16101-6815632-9	Jamia Masjid Rd	03429192700	B+ve	
96	M. Adnan Saeed	37405-7039042-5	Mohan Pura	03325050976	A+ve	
97	M. Taj	37405-0297210-5	Workshapi Mohallah	03339168043	A+ve	
98	M. Shafique	37405-8663258-5	Muslim Abad	03065088601	O+ve	
99	M. Banaras	37405-0392664-2	Workshapi Mohallah	-	O+ve	
100	M. Ahmed Bilal	37405-9941613-7	Said Pur Rd	03325282059	A+ve	
101	Hafiz Asif Sultan	37405-6834406-3	Imam Bargah Rd	03235338337	O+ve	
102	Muhammad Umar	37405-3605899-7	Habib Colony	0300561053	B+ve	
103	Habib Ullah Khan	37405-059929-7	Allam Iqbal Colony	03009821614	O+ve	
104	Qadir Khan	37405-2805660-1	Dhoke Hassu	03005100702	O+ve	
105	Farzand Ali	37405-0537646-3	Said Pur Rd	03009789449	A+ve	
106	M. Basit Awan	37405-0274408-1	Nawab Colony	03225094637	O+ve	
107	Muhammad Nadeem	37405-8215228-5	Dhoke Hassu	0300518137	B+ve	
108	Aziz ur Rehman	37405-0348202-7	Fauji Colony	03345375316	O+ve	
109	Gulfaraz	37405-0226507-7	Dhoke Hassu	03005349442	B+ve	
110	Sajeed Gul	37405-5478196-7	Allama Iqbal Colony	03009100972	B+ve	
111	Jamil.ud.Din	37405-6757356-7	Dhoke Hassu	0332600034	B+ve	
112	Taj Muhammad	37405-0334335-9	Dhoke Hassu	03005351365	O+ve	
113	Islam Gul	37405-0238881-3	Mazhar Abad	0333521889	B+ve	
114	Abdul Ghaffar	37405-0286337-1	Mehmood Abad	03135161620	B+ve	
115	Islam Khan	37405-5144047-3	Dhoke Hassu	03435600030	O+ve	
116	Iftikhar Hussain Shah	37405-7048336-9	Tamasab Abad	03005208910	O+ve	

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
117	Manzoor Ellahi	37102-1277390-7	Liaqat Road Rwp	0333-5123133		
118	Sher Ghulab	37405-7474911-5	Fauji Colony	0333-5234263	O+ve	
119	Nakash Hussain Shah	37405-9723800-5	Tmasabad Rwp	0336-5524263	O+ve	
120	Ehtisham Mukhtar	37405-2283545-9	Tmasabad			
121	Rwp	0336-5524927	O+ve			
122	Muhammad Danial	61101-9590881-7	Asghar Maal Chowk	0331-5255899	O+ve	
123	Rabani Gul	37405-0330775-7	Kashmiri Bazar	0314-5133145	O+ve	
124	Arsalan Mukhtar	37405-4063341-7	Tmasabad Rwp	0343-5124192	O+ve	
125	Muhammad Zeeshan	61101-9495786-7	Asghar Mal Chowk	0300-5208299	O+ve	
126	Muhammad Danial	61101-9590881-7	Asghar Mal Chowk	0331-5255899	O+ve	
127	Babar Khayal	37405-9915152-7	Mohan Pura	03135356777	B+ve	
128	Haziq Khan	37405-4101303-7	New Mohallah	03455219098	AB+ve	
129	Bagi Jan	37405-0614542-3	Moti Market	03005589286	O+ve	
130	Sajid Hussain	37405-0669350-3	Tamasab Abad	0300532614	O+ve	
131	Rehan Ahmed Butt	37405-0969658-3	Usman Pura	03005036484	AB-ve	
132	Numan Hafeez	37405-5562885-9	Palace Market	03224051504	B+ve	
133	Abdul Majeed Awan	37405-0251290-1	Usman Pura	03467338339	O+ve	
134	Salman Ahmed Butt	37405-2956485-5	-do-	03005143977	B+ve	
135	Muhammad	61101-5599129-9	Dhoke Khabba	03335173880	A+ve	
136	Nisar Ahmed	37405-0325364-7	Dhoke Hassu	03005540420	O+ve	
137	Sajjad Hussain	16101-8650708-9	-do-	0309040181	B+ve	
138	Muhammad Yasin	37405-2426455-7	Gulshan Data	03125452003	A+ve	
139	Aqeel Rehman	37405-4833356-5	-do-	03455535360	O+ve	
140	Fazal Rabbi	37405-7961299-7	-do-	03125200481	O+ve	
141	Asif Ahmed Faridi	37405-9062472-1	Rehmat Abad	03005536822	A+ve	
142	Imran Kamal	37405-1809429-3	Dhoke Farman	03341518172	A+ve	
143	Muhammad Shahzad	37405-0132717-1	-do-	03455528119	O+ve	
144	Muhammad Aqeel	37405-4630435-1	-do-	03315086672	O+ve	
145	Khurram Shahzad	37405-8880251-1	-do-	03155260636	O+ve	

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
146	Husnain Khushal	37405-2252928-7	-do-	03315474578	O+ve	
147	Abid Hussain	37405-6576820-9	-do-	03465385857	A+ve	
148	Fazal ur Rehman	37405-5759117-7	Qasim Abad	-	O+ve	
149	Azmat Ullah	37405-4130183-5	Dhok Charag Din	03155538214	O+ve	
150	Muhammad Hafeez	37405-4914755-1	Moh. Karam Ilahi	03155505169	B+ve	
151	Naveed Ahmed	37405-0615357-5	Dhok Charag Din	03445434221	A+ve	
152	Nawazish Ali Mansha	37405-0153396-1	Dhok Charag Din	03135477097	B+ve	
153	Shehryar Khan	37405-4874543-9	Dhok Charag Din		O+ve	
154	Waseem Shah	38201-1585679-9	Jahaz Ground	0306-7503007	B+ve	
155	Muhammad Asif	13202-4259480-5	Al-Noor Colony	0300-5273974	O+ve	
156	Ayaz Zafar	42401-6651134-9	Muslim Town	03217941582	A+ve	
157	Muhammad Hassan	37405-1973148-5	Shaheen Colony	03435809446	A+ve	
158	Muhammad Saeed	37405-0651090-7	Moh. Ch. Feroz Khan	03005230701	O+ve	
159	Muhammad Zubiar	37405-0651235-9	Moh. Ch. Feroz Khan	03235567349	B+ve	
160	Shaukat Hussain	37405-6363391-5	Moh. Hukam Dad	03065470860	O+ve	
161	Ahmed Nawaz	37405-6564936-9	Moh.Feroz Khan	03043917481	B+ve	
162	Muhammad Mushtaq	37405-7911891-5	Dhok Khabba	0345-5407052	O+ve	
163	Arif Mehmood	37405-7785942-7	Dhok Khabba	0301-5002264	O+ve	
164	Fazl-ur-Rehman	37405-5759117-7	Dhok Khabba	0345-5313110	O+ve	
165	Muhammad Shehzad	37405-0132717-1	Dhok Khabba	0315-5598101	O+ve	
166	Muhammad Dawood	37405-4908788-7	Qasim Abad	0321-5021213	O+ve	
167	Muhammad Afzal	37405-0648312-3	Dhok Khabba	0333-1656444	O+ve	
168	Shoaib Kamal	37405-4856363-3	Dhok Farman	0333-5377134	O+ve	
169	Wasim Younis Bhatti	37405-7096965-1	Fazal Abad	0302-5207487	A+ve	
170	Amir Jorge	37405-5305241-9	-do-	0313-5940127	B+ve	
171	Irfan Anwar	37405-5606727-3	-do-	0315-6222467	A+ve	
172	Yousaf Masih	37405-8826232-5	-do-	0346-5250080	B+ve	
173	Manzoor Masih	33104-1607691-9	-do-	0342-5107634	B+ve	

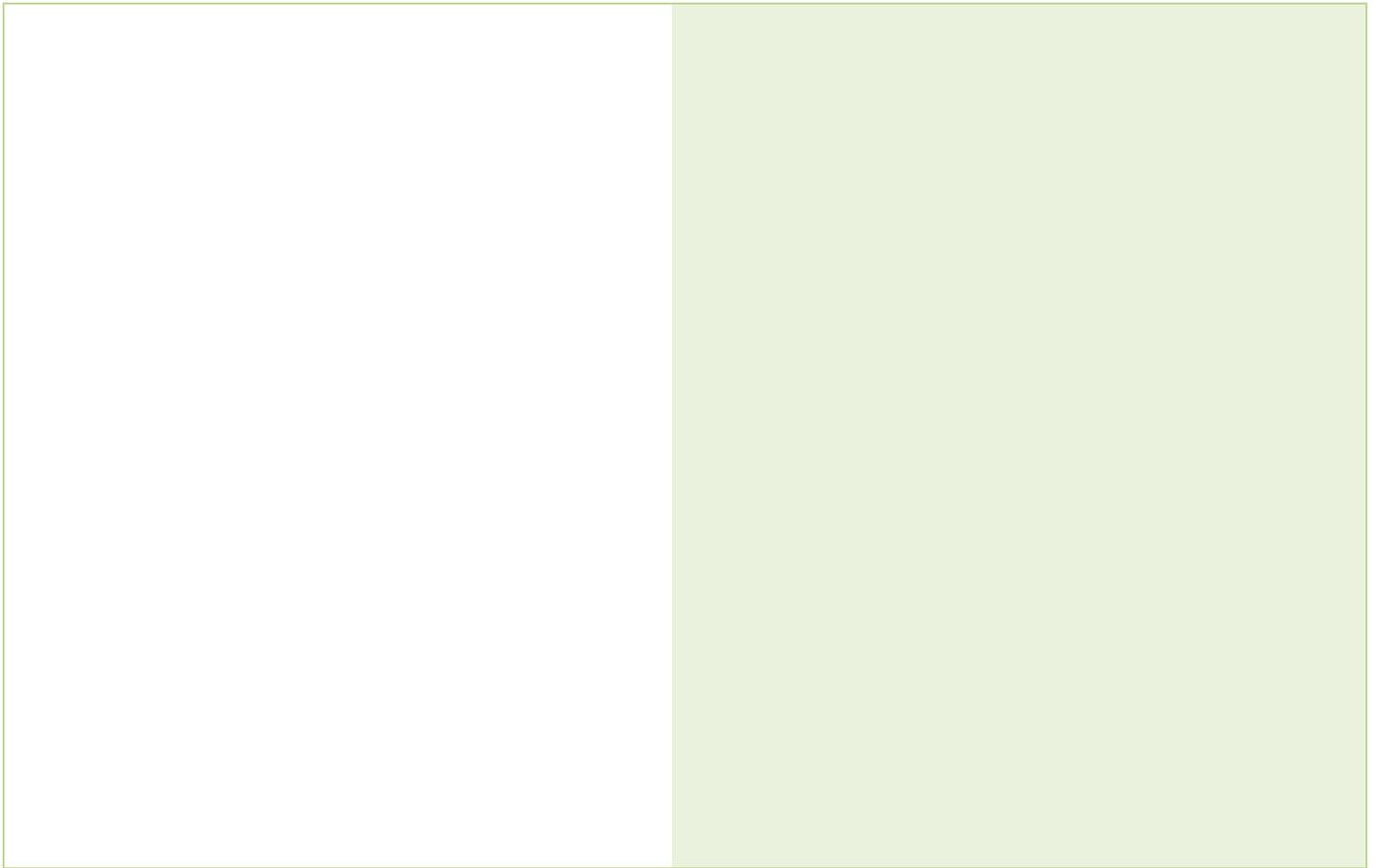
S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
174	Adeel Gulzar	37405-8719917-5	New Aaria Mohallah	0300-9196456	A+ve	
175	Shah Rukh Anwar	37405-7322832-1	Fazal Abad	0345-5488778	A+ve	
176	Naeem-ul-Haq	13401-0812884-1	-do-	0311-5345876	O+ve	
177	Asim Bhatti	37405-8221491-3	-do-	0347-6335379	A+ve	
178	Syed Mukhtar Ali Shah	37402-5043100-1	H.No f/110 New Mohala ,The Kahuta,dist Rawalpindi	0302-8926106		
179	Tahi Mahmood Malik	37402-1929429-3	H. No f/004 Mohalah Bohri Channi Teh Kahuta Dist Rawalpindi	0301-5387541	A+	
180	Abdul Zahid Awan	37402-8857012-3	H No f/46 Channi Kalar Road Kahuta, Teh kahuta Dist Rawalpindi	0332-5181929	A+	
181	Raja javed Sultan	37402-0947637-3		0300-5521086		
182	Amjad Mahmood	37402-0983503-9	H.No f/005 PO Kahuta Channi, Teh Kahuta, Dist Rawlpindi	0314-5676825	O+	
183	Muneeb Saqib	37402-6497511-7	H.No f/140 Channi, Kahuta,			
184	Khawar Khan	13102-0382316-3	11 Rescue Station	0314-2938949		
185	Muhammad Zulfiqar	17201-6602915-1	11 Rescue Station	0342-3805756		
186	Danish Naseer	61101-7250273-1	11 Rescue Station	0311-5702739		
187	Shezan Khan	13102-0362161-5	11 Rescue Station	0315-2555752		
188	Zain ul Abideen	34405-5346927-5	11 Rescue Station	0341-5467346		
189	Abdul Basit shah	34405-5346927-5	11 Rescue Station	0346-2234634		
190	Muhammad Hamad	13503-6382174-9	11 Rescue Station	0317-5078462		
191	Kashif Nawaz	37405-2321700-7	11 Rescue Station	0346-9858854		
192	Asad Sadiq	37104-9983388-9	11 Rescue Station	0311-5289564		
193	Nadeem Fayyaz	61101-3238076-5	11 Rescue Station	0308-8670815		
194	Usman Khalid	37406-6648162-9	11 Rescue Station	0303-8075857		
195	Mubasher Hussain	61101-5196586-9	11 Rescue Station	0307-3971630		
196	Abid Ali	37406-7198545-9	33 Rescue Station	0315-9784197		
197	M. Ayaz	37405-2276309-1	33 Rescue Station	0344-8876926		
198	Ahsan Mustaq	37405-5720661-5	33 Rescue Station	0347-9091297		
199	Ibrar saqib	37405-2468632-9	33 Rescue Station	0303-6811747		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
200	Hasaam Mehmood	37405-8536451-9	33 Rescue Station	0348-5039934		
201	M. Shabaz Khan	37405-8739992-1	33 Rescue Station	0344-5186128		
202	Aqib Hussain	37401-1875250-5	33 Rescue Station	0320-5054810		
203	Nabeel Hussain	37405-0717648-3	33 Rescue Station	0334-8528751		
204	Mohsin Ali	37404-3390928-9	33 Rescue Station	0308-8869297		
205	Obaid-ur-Rehman	37405-2534521-9	33 Rescue Station	0308-9153402		
206	Adnan Khan	42401-5572082-7	33 Rescue Station	0346-0265723		
207	M. Noman Awan	35202-3060482-1	33 Rescue Station	0317-1577072		
208	Sheikh M. Aqeel	37405-8741130-9	22 Rescue Station	0316-5196172		
209	Muhammad Nabeel	37405-9336167-3	22 Rescue Station	0331-5488076		
210	Taimoor Saleem	37201-7514851-7	22 Rescue Station	0305-5042636		
211	Muhammad Hassan	37201-3379026-1	22 Rescue Station	0313-5725454		
212	M Abid Rasheed	37405-8468178-9	22 Rescue Station	0347-5311211		
213	Sohrab Khan	13102-0358840-7	22 Rescue Station	0344-9436053		
214	Waseem Abbas	37405-5909966-5	22 Rescue Station	0301-5704513		
215	Nouman Mehmood	32405-5578314-9	22 Rescue Station	0302-5056701		
216	Muharram Shah	37405-4136964-9	22 Rescue Station	0303-5001283		
217	Khurram Shahzad	37405-0225429-3	22 Rescue Station	0331-5045720		
218	Azeem Ashraf	37405-4688935-9	22 Rescue Station	0301-5300731		
219	Sikandar Qureshi	37405-4405388-5	Community Wing	0302-5315662		
220	M.Haris	37405-1625530-9	Community Wing	0311-5471401		
221	Jamshed Masih	61101-4120542-9	Community Wing	0307-5855076		
222	M.Usama Ali	37405-8921313-5	Community Wing	0307-5010715		
223	Jabir Qureshi	37405-9014603-3	Community Wing	0300-5192713		
224	M.Shakeel Baig	37405-1791636-3	Community Wing	0331-5033380		
225	Ameer Sultan Awan	38201-3587830-7	Community Wing	0332-7728191		
226	Nauman Bin Ziad	37405-2466413-7	55 Rescue Station	0348-5013191		
227	Azhar Ali	13503-4956923-3	55 Rescue Station	0348-5036663		
228	Naveed Ahmed	54400-1252078-3	55 Rescue Station	0344-1182508		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
229	Zohaib Hassan	37201-1553591-1	55 Rescue Station	0340-0561921		
230	Ateeq-Ur-Rehman	37405-1821945-7	55 Rescue Station	0313-5149416		
231	Mohsin Khan	15402-8471200-1	55 Rescue Station	0342-5716219		
232	Zaheer Khursheed	82103-5320775-9	55 Rescue Station	0336-5712403		
233	Zeeshan Riasat	82302-8877435-5	55 Rescue Station	0346-6102418		
234	Abrar Ahmed	37405-3506952-5	55 Rescue Station	0344-5508246		
235	Ehsan Sajid	37405-2265838-3	55 Rescue Station	0312-4319503		
236	M Faisal	37405-4737963-7	55 Rescue Station	0316-5098127		
237	M Talha	37405-4738818-7	55 Rescue Station	0344-5508246		

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-50	Shahid Khaqan Abbasi		0300-8282942	PP-1	Raja Ashfaq Sarwar		0300-8501313
NA-51	Raja Javed Ikhlas		0300-9188431	PP-2	Raja Muhammad Ali		0333-5511445
NA-52	Ch. Nisar Ali Khan		0307-5128322	PP-3	Ch. Iftikhar		0300-8547622
NA-53	Mr. Ghulam Sarwar Khan		0333-5551777	PP-4	Mr. Shoukat Aziz		0345-8544322
NA-54	Malik Ibrar Ahmed		0321-8507138	PP-5	Mr. Qamar ul Islam		0300-8557646
NA-55	Sheikh Rashid		0300-8554242	PP-6	Ch. Sarfaraz Afzal		0300-5006514
NA-56	Imran Khan		0300-5555590	PP-7	Malik Umar Farooq		0300-8567895
				PP-8	Malik Taimoor Masood		0300-8550586
				PP-9	Mr. Asif Mehmood		0312-5114491
				PP-10	Malik Iftikhar Ahmad		0322-5386266
				PP-11	Raja Rashid Hafeez		0300-5009140
				PP-12	Mr. Ijaz Khan		0314-9644444
				PP-13	Mr. Arif Abbasi		0333-5109807
				PP-14	Raja Abdul Hanif		0333-5104095



Annex XI: Data Collection Performas

P1: House Damage Assessment

District: _____

Date: _____

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

District: _____

Date: _____

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

District: _____

Date: _____

S#	Name of injured	Father's name	Address	Domicile	Gender	Age	CNIC	Cause of injury	Date of injury	Injury Type (Permanent or 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 Performa

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Date: _____

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

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

District: _____

Focal Person: _____

Date: _____

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

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

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

Annex XIII: Flood Bunds**INFORMATION REGARDING FLOOD BUND CATEGORY A**

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

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

INFORMATION REGARDING FLOOD BUND CATEGORY B

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

2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	Total in feet.		190,000
	Total in miles		35.98
<u>D.G.KHAN ZONE</u>			
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
<u>LBDC (IP)</u>			
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
<u>LAHORE ZONE</u>			
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
<u>PMO BARRAGES</u>			
1	Jinnah Barrage	-do-	20,000
	Total in feet.		20,000
	Total in miles		3.79
	Grand Total (in miles)		350.76

Annex XIV: River Discharge Rates

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