



DISTRICT DISASTER MANAGEMENT PLAN 2022

Division: Rawalpindi

District: Rawalpindi



APP41-20
RAWALPINDI: December 20 – Firefighters struggling to extinguish fire that engulfs the whole six storied 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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XX

Estimated number people
risk of **earthquake** 2022



total population

Risk: High

XX

Estimated number of people at
risk of **floods** 2022



of total population

Risk: High

XX

Estimated number of people
at risk of **Epidemic** in 2022

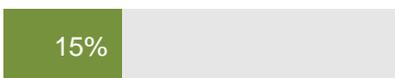


of total population

Risk: Medium

XX

Estimated number of people
at risk of **Landslide** in 2022



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 Sattian, 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 2021 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	16,950(2018 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	106	7	5		
Annual OPDs	1,881,517	4,346,144	3,228,344		
No of beds	356	2,544	2,222		
Doctors Available	141	85			
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
12 %	21 %	6 %	0.5 %	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 Hachira 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 sapijala 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		1950			

	town of District Attock.					
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 Attock. 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 Nandna Kas in District Attock.		14320			
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 Giddran 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 Talikn a 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		2000			

	village Teh:Distt:Chakwal.					
Domeli Dam	Site is located at Junction Point of Nili Pamal nullah near village 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 Jammegal 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 Gujar Khan District Rawalpindi.		3900			
Fatehpur Dam	Dam site is situated at 34 Km south west of Domeli Town and 84 Km from Jhelum City, District Jhelum.		1733			
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	20/26
	T-3	20/26		T-3	20/26
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	20/26
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	

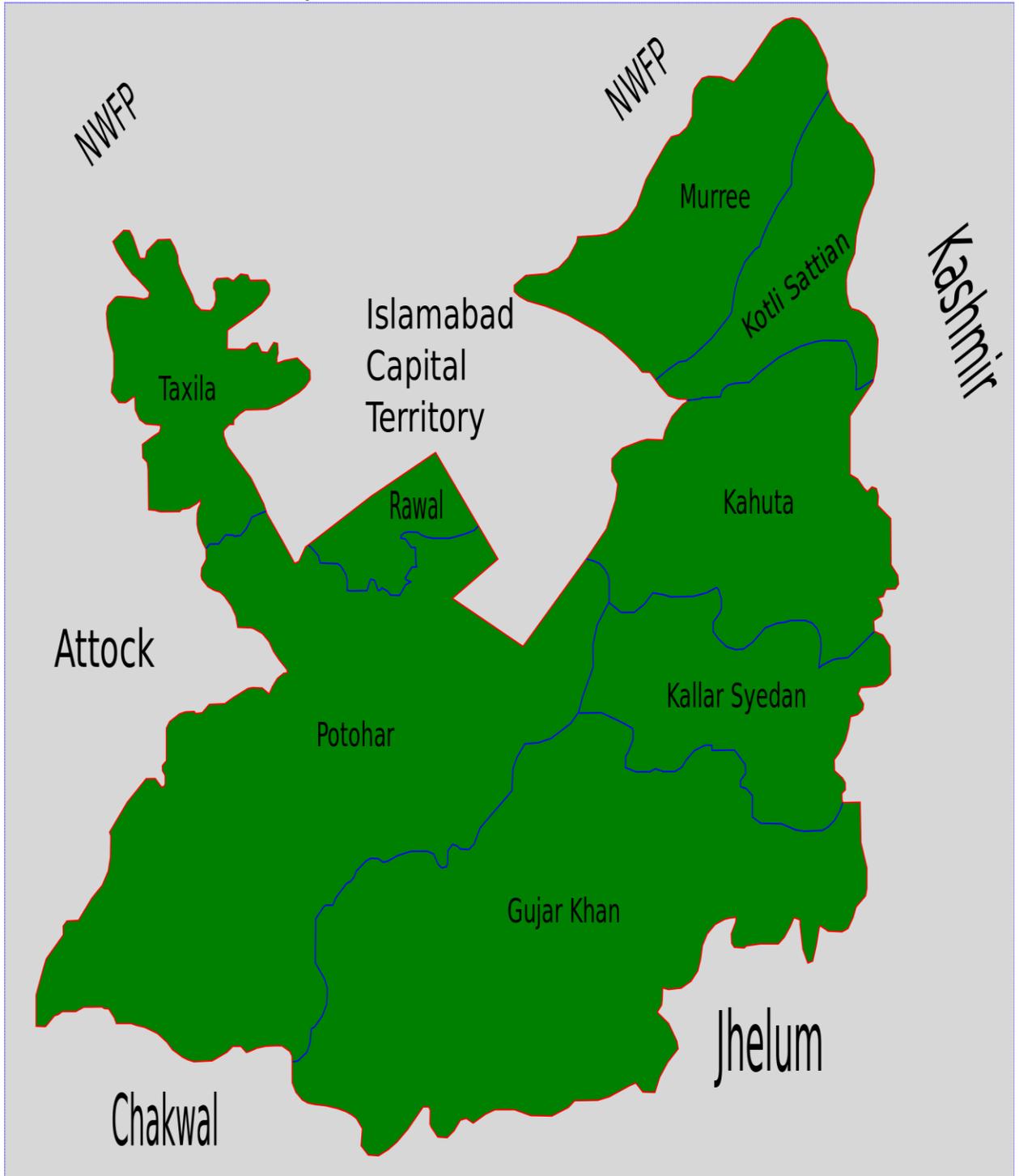
Airport / Landing Strips

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 accordinglt 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 Metropolitan Corporation, Rawalpindi Building.
- Rescue 1122 starts evacuation of trapped victims along with volunteers of Civil Defence to Reliefe 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 causalities / deaths will be kept along their names, address, type of injury and ward in shape of a flow chart.
- All causalities 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 /

- Tehsil / 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 Metropolitan Corporation, Rawalpindi will provide assistance to the District Government for setting up and management of relief camps/ operations.
- Metropolitan Corporation, Rawalpindi are responsible for provision & restoration of water and sanitation facilities in their municipalities besides disposal of waste or rain water/sewerage.

- 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.
- Metropolitan Corporation, Rawalpindi sanitary workers can be employed for cleaning relief camps, or other such areas which has been affected by any disaster.
- Metropolitan Corporation, Rawalpindi employ de-watering sets to remove excess water. All Metropolitan Corporation, Rawalpindi are required to ensure the maintenance of all dewatering sets prior to the monsoon season. The Metropolitan Corporation, Rawalpindi maintains a list of all the choking points where rainy water accumulates as a result of heavy storms which can cause urban flooding.
- Metropolitan Corporation, Rawalpindi 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 Metropolitan Corporation, Rawalpindi 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 Metropolitan Corporation, Rawalpindi 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, 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 Metropolitan Corporation, Rawalpindi.
- 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. City Police Officer
- iii. Additional Deputy Commissioner (G & R)
- 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.

EMERGENCY COVER FOR MURREE DURING EXTREME WEATHER-2022

Rescue 1122 Murree will provide Emergency Cover during extreme weather situation, as following;

Deployment of Staff & Emergency Vehicles

- Engr. Kamran Rasheed (DEO-RWP) 0333-7121122 Event Supervisor
- Engr. Sibghat Ullah (IEO-Murree) 0333-4175110 Event Coordinator
- Zeeshan Hafeez (CRI) 0311-5443037 Control Room Inchrq.
- Muhammad Hanif (RSO) 0333-5661122 Duty Officer-1
- Wyclife Uziah (RSO) 0300-7798132 Duty Officer-2
- **Control Room 1122, 051-9330016, 051-9330025**

RESOURCES DEPLOYMENT

Sr. No	Location	Vehicles	Status	Sector Incharge
1.	Jhika Galli	02 Ambs	<ul style="list-style-type: none"> • MRA-14 will Patrol from Jhika Galli to Kuldana • RA-45 will Patrol from Jhika Gali to Gharyal Camp 	Anwaar Abbasi (SC) 0301-5537699
2.	Lower Topa	01 Amb	<ul style="list-style-type: none"> • MRA-11 will Patrol from Lower Topa to Jhika Gali & Danna Mor 	
3.	Mall Road / GPO	01 Amb	<ul style="list-style-type: none"> • MRA-8 will Patrol on Mall Road & surrounding area 	
4.	Kuldana	02 Ambs	<ul style="list-style-type: none"> • MRA-18 will Patrol from Kuldana to Sunny Bank, Chitta Mor • RA-44 will Patrol from Kuldana to Darya Gali, Sandhian & Barian 	M. Asjad(SC) 0323-8551122
5.	Sunny Bank	01 Amb	<ul style="list-style-type: none"> • MRA-09 will Patrol from Sunny Bank to Lari Adda & APS 	
6.	APS	01 Rescue	<ul style="list-style-type: none"> • MRR-1 will Patrol from APS, 	Haroon Abbasi (Act.

		Vehicle	Lari Ada, Sunny Bank & Kuldana Chowk	SC) 0312-3121122
7.	Lawrence Chowk	01 Amb	<ul style="list-style-type: none"> MRA-10 will Patrol from Lawrence Chowk to Bansra Galli, Chitta Mor 	
8.	Missyari	01 Amb	<ul style="list-style-type: none"> MRA-13 will Patrol from Missyari to Showala 	

NOTE: A Team from Rawalpindi comprising of 25 personnel (02 4x4 Ambulances, 01 Rescue Vehicle, 01 Truck) will be deployed during snowfall.

Backup Resources

Backup resources from adjoining Districts;

- **Rawalpindi**

Backup Team comprising of 25 personnel (02 4x4 Ambulances, 01 Rescue Vehicle) is on Stand-by at RS-01 Rawalpindi

- **Attock**

Backup Team comprising of 25 personnel (02 Ambulances) is on Stand-by at RS-01 Attock

- **Jhelum**

Backup Team comprising of 25 personnel (02 Ambulances) is on Stand-by at RS-01 Jhelum

Operations

- All officers will ensure their availability round the clock and ensure visit / inspection of key points, time to time

Media Coordinator

- Media Coordinator shall ensure timely compilation of pictorial data, updating and submission to quarters concerned

TMI, WT, Fuel Incharge, Cylinder Incharge

- TMI shall ensure timely repair of emergency vehicles
- WT will ensure effective wireless communication
- Fuel Incharge shall ensure continual supply of POL for emergency vehicles
- O2 Cylinder Incharge will ensure uninterrupted supply of O2 for all ambulances

Control Room Incharge

- CRI shall ensure proper functioning of District Control Room
- He will remain in contact with all line departments to ensure coordination & timely information
- He will also ensure coordination with all line departments for assistance during snow rescue operation
- He will remain in close contact with all deployed resources and staff for timely updation & movement.
- He will update The District Emergency Officer Rawalpindi & Incharge Emergency Officer Murree, time to time

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. 051-5178904
Fax No. 051-9278304
Focal Person: 0334-1769111

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).

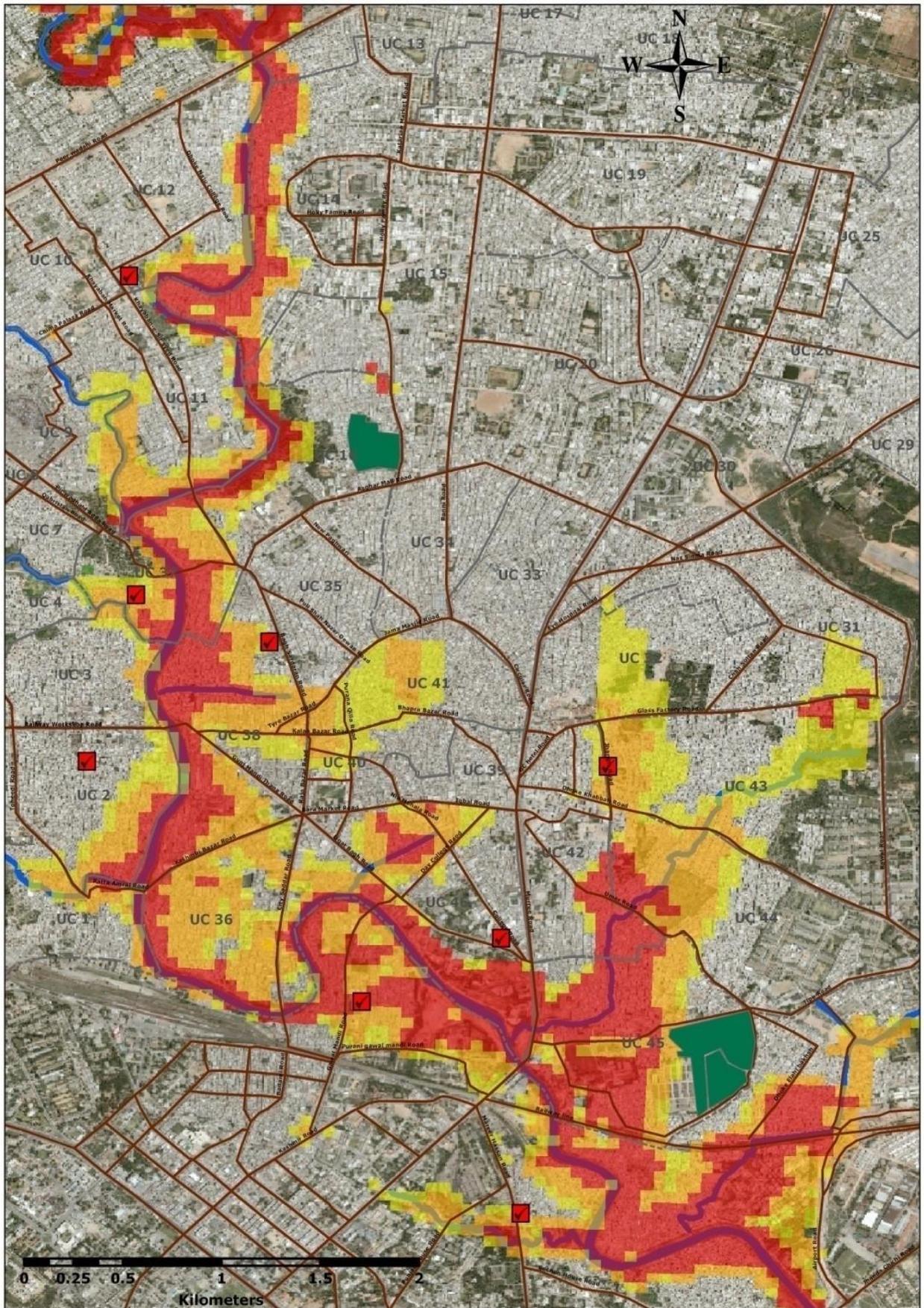
Flash Flood urban flood due to Lai Nullah is being planned every year for medium and high risk. The potential sites/vulnerable areas have been pointed out across the board.

- 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	14	YES		10
OBM	19	YES		02
De-watering sets	48	YES		
Navigators	Nil			05
Life Jackets	710	YES		50
Life Ring	43	YES		
Life Lines	28	YES		50
Scuba diving suit with complete accessories	06	YES		
First Aid Kits	50	YES		
Rescue Bag	20	YES		
Safety Harnesses	10	YES		
Ambulances	20	YES		
Fire Brigade	20	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	02	YES		
Pickups/Jeeps/4x4 vehicles/Mini Trucks	56	YES		
Searchlight	07	YES		30
Tent	30	YES		10
Mosquito Net	30	YES		
Plastic Mat	30	YES		
Blanket	NIL			
Generator Sets	01	YES		
Gas-Cutters	1	YES		
Scuba Diving Set	06	YES		
Floating Rope	10	YES		05

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

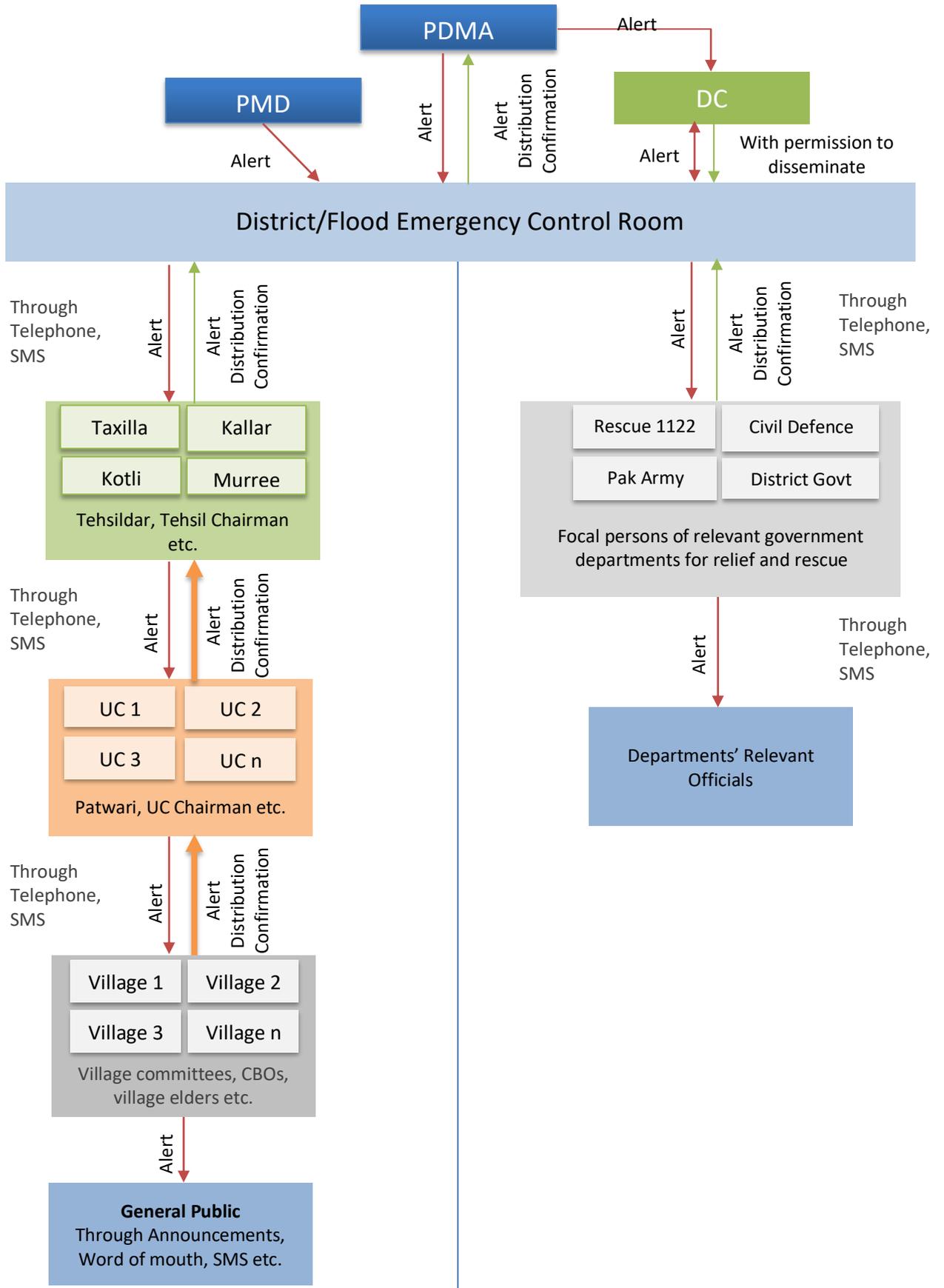
- ✓ Briefly describe what measure could be taken to reduce the impact of the potential disasters.
- ✓ Strategic pre-positioning of available relief stocks
- ✓ Public education and community awareness

Hazards	Mitigate Actions	Responsible Department
Urban Flooding	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
Flash Floods		
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 Metropolitan Corporation, Rawalpindi RDA Cantt Board

Epidemic	<ul style="list-style-type: none"> ➤ Survey of most effected areas for larva detection. ➤ Removal of stagnant water ➤ Distribution of awareness pamphalets ➤ Mounting of bannders and streamers 	Health Civil Defence Education Rawalpindi Cantonment Board
Fire Incidents	<ul style="list-style-type: none"> ➤ Implementatio 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 Implemenation 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 Implemenation 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, Metropolitan Corporation, Rawalpindi 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 Metropolitan Corporation, Rawalpindi 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 pre-designated 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)**RELIEF CAMPS**

The whole target area which ranges from Kattarian Bridge to Chaklala 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. Mc boys High School, Ratta Amral, Rawalpindi	Functional
2	Govt. Islamia High School, No. 4, Liaquat Road, Rawalpindi	Functional
3	Govt. Girls High School Safdarabad, Pirwadhahai, Rawalpindi	Functional
4	Govt. Girls High School Bagh Sardaran, Rawalpindi	Functional
5	Govt. Mc Boys High School, Millat Colony, Rawalpindi	Functional

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 BUKHS	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	400	33°38'06.5"N	150	MOHRA	200	33°29'58.6"N

	MALL SCHEME		73°03'54.0"E		DORGHA		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	205	MORGAH	250	33°33'36.5"N

			72°49'57.8"E				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 JUMA KHAN	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 KHASWAL	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	367	JHONGAL	100	33°15'57.1"N

			73°08'40.4"E				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	100	33°15'24.0"N				Y: 73°29'02.8"E

	KALYAL		73°04'54.8"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 Y: 73°28'42.4"E	443	GGPS Kalana	49	X: 33°33'21.8"N Y: 73°22'03.7"E
432	GMS Karli	30	X: 33°44'09.6"N Y: 73°33'31.9"E	444	GGPS Kalyal	45	X: 33°34'26.9"N Y: 73°20'01.2"E
433	GMPS Narala	45	X: 33°35'37.8"N Y: 73°19'40.9"E	445	GGPS Kangarh	60	X: 33°35'37.3"N Y: 73°19'38.9"E
434	GMPS Narar	60	X: 33°42'33.0"N Y: 73°31'22.8"E	446	GGPS Kanaran	15	X: 33°40'45.5"N Y: 73°33'56.2"E
435	GMPS Norang Bakht	120	X: 33°33'17.6"N Y: 73°32'54.2"E	447	GGPS Karot No: 1	30	X: 33°29'27.4"N Y: 73°18'04.4"E
436	GPS Piniali	100	X: 33°33'59.9"N Y: 73°15'26.0"E	448	GGPS Keral	30	X: 33°37'24.0"N Y: 73°27'56.0"E
437	GMPS Soon	60	X: 33°39'42.7"N Y: 73°32'47.8"E	449	GGPS Khadiot	45	X: 33°35'54.9"N Y: 73°23'00.1"E
438	GMPS Bamlot	60	X: 33°31'36.2"N Y: 73°24'25.9"E	450	GGPS Khalol	45	X: 33°35'20.4"N Y: 73°22'08.8"E
439	GMPS Chiras	45	X: 33°42'25.3"N Y: 73°32'48.1"E	451	GGPS Kharang	60	X: 33°33'27.1"N Y: 73°22'22.2"E
440	GGPS Muhalla Rajgan	45	X: 33°35'41.1"N Y: 73°23'33.5"E	452	GGPS Kotha	30	X: 33°35'13.6"N Y: 73°23'44.6"E
441	GMPS Ghariat	60	X: 33°32'13.1"N Y: 73°28'42.4"E	453	GGPS Latori Syedan	45	X: 33°34'48.5"N Y: 73°31'36.0"E
442	GMS Karli	30	X: 33°44'09.6"N Y: 73°33'31.9"E	454	GGPS Manyand	30	X: 33°36'20.8"N Y: 73°24'36.1"E
455	GMPS Narala	45	X:	467	GGPS Mohra	30	X: 33°40'50.0"N

			33°35'37.8"N		Bero		
			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 Y: 73°26'32.3"E	567	GGES Samlati	30	X: 33°44'13.8"N Y: 73°35'29.3"E
556	GGPS Sundal	30	X: 33°35'05.7"N Y: 73°33'13.4"E	568	GGES Kethola	80	X: 33°5440.3"N Y: 73°54'40.3"E
557	GGPS Sunglour	45	X: 33°31'57.3"N Y: 73°30'58.3"E	569	GMPS Banni Seri	60	X: 33°46'42.0"N Y: 73°24'26.4"E
558	GGPS Tangi	45	X: 33°36'18.9"N Y: 73°23'39.8"E	570	GGPS Kharang	45	X: 33°50'15.7"N Y: 73°30'17.4"E
559	GGPS Otrina	30	X: 33°31'09.0"N Y: 73°15'17.5"E	571	GGPS Jawa	50	X: 33°51'50.5"N Y: 73°34'20.9"E
560	GMPS Janjor	60	X: 33°33'15.1"N Y: 73°25'29.2"E	572	GGPS Kahni	40	X: 33°46'00.6"N Y: 73°25'52.3"E
561	GGPS Jantra	30	X: 33°40'39.9"N Y: 73°23'22.3"E	573	GGPS Kahuti	90	X: 33°45'32.5"N Y: 73°30'42.5"E
562	GGPS Janhattal	60	X: 33°33'33.6"N Y: 73°34'29.8"E	574	GGPS Kallan	35	X: 33°47'54.9"N Y: 73°31'12.1"E
563	GGPS Jewera	30	X: 33°36'03.2"N Y: 73°31'18.6"E	575	GGPS Kamkot Haider	75	X: 33°45'52.3"N Y: 73°28'09.3"E
564	GGPS Kalyari	45	X: 33°47'55.5"N Y: 73°22'48.0"E	576	GGPS Kondol	30	X: 33°45'21.1"N Y: 73°33'19.4"E
565	GGPS Lower Dhirkot	45	X: 33°52'38.1"N Y: 73°29'33.2"E	577	GGPS Kotli Sattian	80	X: 33°50'40.5"N Y: 73°31'18.0"E
566	GGPS Lower Kotli	50	X: 33°48'13.4"N Y: 73°31'26.6"E	578	GGPS Mouri Dewan	60	X: 33°47'07.9"N 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 Waghah	35	X: 33°53'06.5"N	620	GGCMS Darnoian	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 Ghanoian	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 Bareen	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

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 (Chaklala 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. Waghal		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

Sr #	Tehsil	Name of Health Facility	Type	Designation	Name of Doctor	Cell#	GPS Coordinate	
1	Gujar Khan	Basic Health Unit, Badana	BHU	MO/WMO	Dr. Muhammad Abdullah	0333-6441898	33.3354786	73.43980275
2	Gujar Khan	Basic Health Unit, Bewal	BHU	MO/WMO	Dr. Rafia Ali Viance	0321-5753011	33.28663766	73.3503753
3	Gujar Khan	Basic Health Unit, Bhawaly	BHU	MO/WMO	Dr. Abdullah Bin Munir	0332-0984960	33.14363295	73.00891987
4	Gujar Khan	Basic Health Unit, Buchial	BHU	MO/WMO	Dr. Adeel Anwar	0300-5106464	33.31232786	73.2887274
5	Gujar Khan	Basic Health Unit, Changa Mera	BHU	MO/WMO	Dr. Raja Jazib Ali	0302-5313277	33.32922951	73.3509315
6	Gujar Khan	Basic Health Unit, Devi	BHU	MO/WMO	Vaccant		33.20275426	73.04822445
7	Gujar Khan	Basic Health Unit, Dhera Muslim	BHU	MO/WMO	Dr. Rabia Batool	0336-0592005	33.20281425	73.04826128
8	Gujar Khan	Basic Health Unit, Dhoong	BHU	MO/WMO	Dr. Hamza Ali	0335-5777697	33.10666027	73.12531818
9	Gujar Khan	Basic Health Unit, Galyna	BHU	MO/WMO	Vaccant		33.20253432	73.27716708
10	Gujar Khan	Basic Health Unit, Jahand Mehlu	BHU	MO/WMO	Dr. Serin Rafique	033-5850601	33.27347073	73.12908831
11	Gujar Khan	Basic Health Unit, Jajja	BHU	MO/WMO	Dr. Zohair Shoukat	0333-5444235	33.22672577	73.3860199
12	Gujar Khan	Basic Health Unit, Jatli	BHU	MO/WMO	Dr. Haseeb Aslam	0333-5553072	33.21074996	73.10358365
13	Gujar Khan	Basic Health Unit, Jermote Kala	BHU	MO/WMO	Dr. Sofia Noreen	0341-5016818	33.13926329	73.32563775
14	Gujar Khan	Basic Health Unit, Jhongal	BHU	MO/WMO	Dr. Iradat Ali	0321-6521364	33.26543809	73.07493241
15	Gujar Khan	Basic Health Unit, Kisan	BHU	MO/WMO	Dr. Gohar Ali	0314-5072144	33.13152247	73.26173451
16	Gujar Khan	Basic Health Unit, Kountrilla	BHU	MO/WMO	Vaccant		33.08733395	73.04595192
17	Gujar Khan	Basic Health Unit, Kuramb Baloch	BHU	MO/WMO	Dr. Umer Farooq	0333-5162771	33.25782741	73.23326474
18	Gujar Khan	Basic Health Unit, Kuri Dalal	BHU	MO/WMO	Dr. Rohina Khalid	0313-4088187	33.3952949	73.29000579
19	Gujar Khan	Basic Health Unit, Menkiala Braman	BHU	MO/WMO	Vaccant		33.23610217	73.28091286
20	Gujar Khan	Basic Health Unit, Miana Sittal	BHU	MO/WMO	Dr. Sana Waqar	0336-6062214	33.09484464	73.23558629
21	Gujar Khan	Basic Health Unit, Pothi Bijnial	BHU	MO/WMO	Dr. Waqar Hassan Cheema	0323-5178100	33.34950526	73.19963463
22	Gujar Khan	Basic Health Unit, Ramay	BHU	MO/WMO	Dr. Saira Bashif	0300-7018805	33.15196031	73.06690618

23	Gujar Khan	Basic Health Unit, Sahang	BHU	MO/WMO	Dr. Wafa Noor	0323-5494821	33.29066231	73.18653403
24	Gujar Khan	Basic Health Unit, Sangoori	BHU	MO/WMO	Dr. Mashood Shahid Amin	0331-5350047	33.39918168	73.25130637
25	Gujar Khan	Basic Health Unit, Sui Chemia	BHU	MO/WMO	Dr. Muzaffar Ahmed	0302-5360813	33.36783704	73.42077624
26	Gujar Khan	Basic Health Unit, Sukho	BHU	MO/WMO	Dr. Zahira Ali	0321-5062364	33.24849129	73.17610145
27	Gujar Khan	Basic Health Unit, Susral	BHU	MO/WMO	Dr. M Muneeb Ur Rehman	0344-5507931	33.15169285	73.2493387
28	Gujar Khan	Basic Health Unit, Thati	BHU	MO/WMO	Dr. Sidra Naseem Malik	0315-1172088	33.26454605	73.51427706
29	Kahuta	Basic Health Unit, Beor	BHU	MO/WMO	Dr. Noor Fatima Tahir	0321-4502303	33.19154916	73.14900358
30	Kahuta	Basic Health Unit, Dakhali	BHU	MO/WMO	Dr. Shumaila Saleem	0334-6296454	33.3559766	73.2445154
31	Kahuta	Basic Health Unit, Hanesar	BHU	MO/WMO	Dr. Afsheen Abid	0300-1785444	33.29947938	73.38949225
32	Kahuta	Basic Health Unit, Matore	BHU	MO/WMO	Dr. Muhammad Omer	0348-3074682	33.57486785	73.56127739
33	Kahuta	Basic Health Unit, Mowara	BHU	MO/WMO	Dr. Hammad Nawaz Chahal	0303-2618181	33.53744795	73.35001172
34	Kahuta	Basic Health Unit, Nara	BHU	MO/WMO	Dr. Maria Mumtaz	0345-6967975	33.59051049	73.47735643
35	Kahuta	Basic Health Unit, Narrar	BHU	MO/WMO	Dr. Anum Shaheen	0322-5362217	33.76679144	73.46858187
36	Kahuta	Basic Health Unit, Punjar	BHU	MO/WMO	Dr. Ijaz Ahmed	0300-5956178	33.52750003	73.47701311
37	Kahuta	Basic Health Unit, Sambla	BHU	MO/WMO	Dr. Muhammad Usman Javed	0333-7707370	33.5549121	73.44150916
38	Kahuta	Basic Health Unit, Thoha Khalsa	BHU	MO/WMO	Dr. Raja Khilaid Yaqoob	0300-9896339	33.54269743	73.5271436
39	Kallar Syedan	Basic Health Unit, Bakhral	BHU	MO/WMO	Dr. Zil Huma Asif	0331-4890730	33.24466886	73.13135693
40	Kallar Syedan	Basic Health Unit, Balakhar	BHU	MO/WMO	Dr. Saman Ikhkaq	0305-5520299	33.64548504	73.51087332
41	Kallar Syedan	Basic Health Unit, Bishandot	BHU	MO/WMO	Dr. Muhammad Hassan Masoor	0331-6663166	33.66293988	73.40350233
42	Kallar Syedan	Basic Health Unit, Choha Khalsa	BHU	MO/WMO	Dr. Azka Bashir	0333-0381405	33.50808758	73.43436198
43	Kallar Syedan	Basic Health Unit, Doberan Kalan	BHU	MO/WMO	Dr. Arooj Benezir	0340-5152872	33.47674507	73.34970403
44	Kallar Syedan	Basic Health Unit, Nala Musalmanan	BHU	MO/WMO	Dr. Ghulam Murtaza	0345-4648563	33.45542027	73.41721345
45	Kallar Syedan	Basic Health Unit, Phalina	BHU	MO/WMO	Dr. Zahra Mushtaq	0334-0002487	33.45304064	73.29283967
46	Kallar Syedan	Basic Health Unit, Samote	BHU	MO/WMO	Dr. Waqar Ahmed	0322-5337670	33.41136126	73.47660306

47	Kallar Syedan	Basic Health Unit, Sirsoba Shah	BHU	MO/WMO	Dr. Razia Javed	0331-5342282	33.44458222	73.49493027
48	Kotli Sattian	Basic Health Unit, Arriri	BHU	MO/WMO	Dr. Fahad Karamat Baig	0323-6666567	33.44811708	73.52412281
49	Kotli Sattian	Basic Health Unit, Darnoian	BHU	MO/WMO	Dr. Hassan Sajjad	0332-5293072	33.40857625	73.33568215
50	Kotli Sattian	Basic Health Unit, Dhanda	BHU	MO/WMO	Dr. Yasir Hussain	0306-7471741	33.34138827	73.4998131
51	Kotli Sattian	Basic Health Unit, Kamkot Haider	BHU	MO/WMO	Dr. Feryal Kousar	0305-8771543	33.39740984	73.50985524
52	Kotli Sattian	Basic Health Unit, Karor	BHU	MO/WMO	Dr. Mashal e Haq	0336-8509497	33.80263031	73.48879337
53	Kotli Sattian	Basic Health Unit, Kot Siyah	BHU	MO/WMO	Dr. Raheel Jalil	0316-5871335		
54	Kotli Sattian	Basic Health Unit, Malot Sattian	BHU	MO/WMO	Dr. Inzimam Latif	0301-5341354	33.73584927	73.4018128
55	Kotli Sattian	Basic Health Unit, Santh Saroola	BHU	MO/WMO	Dr. Muhammad Khsif Rana	0303-7527443	33.86897206	73.5074991
56	Kotli Sattian	Basic Health Unit, Thoon	BHU	MO/WMO	Dr. Hilal Ahmed	0334-4484141	33.89652908	73.57515514
57	Murree	Basic Health Unit, Ban	BHU	MO/WMO	Dr. Ammar Ayaz	0311-4411956	33.84841025	73.53821039
58	Murree	Basic Health Unit, Charhan	BHU	MO/WMO	Dr. Muhamad Jahanzaib	0301-5382481		
59	Murree	Basic Health Unit, Dewal	BHU	MO/WMO	Dr. Saif Abbas	0331-5547123	33.71223212	73.44447218
60	Murree	Basic Health Unit, Gehal	BHU	MO/WMO	Dr. Mubasshar	0300-9886664	33.81891668	73.46460521
61	Murree	Basic Health Unit, Ghora Gali	BHU	MO/WMO	Vaccant		33.87261987	73.45849514
62	Murree	Basic Health Unit, Kali Mitti	BHU	MO/WMO	Dr. Amum Abrar	0336-5182047	34.01742449	73.48629914
63	Murree	Basic Health Unit, Mengal	BHU	MO/WMO	Dr. Arif Hussain	0303-6424709	33.90486362	73.50434749
64	Murree	Basic Health Unit, Numbal	BHU	MO/WMO	Dr. Tehmeena	0306-0324325	33.88925168	73.35557211
65	Murree	Basic Health Unit, Pahaphril	BHU	MO/WMO	Dr. Umer Bin Khatab Abbasi	0301-5553733	33.95903528	73.39505553
66	Murree	Basic Health Unit, Photha Sharif	BHU	MO/WMO	Dr. Muhammd Furqan	0315-9976999	33.75026286	73.30795348
67	Murree	Basic Health Unit, Rawat	BHU	MO/WMO	Vaccant		33.87353718	73.38392973
68	Murree	Basic Health Unit, Sambli Bermal	BHU	MO/WMO	Dr. Muhammad Nouman	0333-2841532	33.86002958	73.40703964
69	Murree	Basic Health Unit, Sher Bagla	BHU	MO/WMO	Vaccant		33.94627869	73.48973215
70	Murree	Basic Health Unit, Treet	BHU	MO/WMO	Dr. Anila Javed	0300-5482169	33.96449626	73.45711649

71	Rawalpindi	Basic Health Unit, Bijniel	BHU	MO/WMO	Dr. Muhammad Yousaf Rajpot	0345-5703585	33.83035362	73.36145818
72	Rawalpindi	Basic Health Unit, Chahan	BHU	MO/WMO	Dr. Muhammad Zaheer	0333-5716320	33.91940832	73.46069455
73	Rawalpindi	Basic Health Unit, Chak Bali Khan	BHU	MO/WMO	Vaccant		33.60814869	73.07960093
74	Rawalpindi	Basic Health Unit, Chakri	BHU	MO/WMO	Dr. Sajjad Hussain	0334-5326377	33.9575239	73.4744053
75	Rawalpindi	Basic Health Unit, Chaper	BHU	MO/WMO	Vaccant		33.57243816	72.88613641
76	Rawalpindi	Basic Health Unit, Dhama Syedan	BHU	MO/WMO	Dr. Adeeba Shaheen	0300-0228933	33.41890885	72.87946925
77	Rawalpindi	Basic Health Unit, Dhok Parh	BHU	MO/WMO	Dr. Rana Ali Murtaza	0321-6539011	33.24744536	72.91282411
78	Rawalpindi	Basic Health Unit, Dhoke Budhal	BHU	MO/WMO	Dr. Adil Sultan	0334-5178357	33.29511628	72.76489477
79	Rawalpindi	Basic Health Unit, Dhudian Pial	BHU	MO/WMO	Dr. Nazia Khan	0315-6691747	33.41152668	73.04198563
80	Rawalpindi	Basic Health Unit, Dhulial Jhando	BHU	MO/WMO	Dr. Fahad Hassan	0333-2476025	33.34543705	73.01646173
81	Rawalpindi	Basic Health Unit, Girja	BHU	MO/WMO	Dr. Benish Tahir	033-55410519	33.51020953	72.9504296
82	Rawalpindi	Basic Health Unit, Hayal Sharif	BHU	MO/WMO	Dr. Yusra Perveen	0333-5541293	33.4034142	73.08718922
83	Rawalpindi	Basic Health Unit, Herniawala	BHU	MO/WMO	Dr. Rimsah Ahmad Khan	0333-1752192	33.34883824	72.88123788
84	Rawalpindi	Basic Health Unit, Jabber Darvaish	BHU	MO/WMO	Dr. Kanza Tariq	0315-5053138	33.57161899	72.97002451
85	Rawalpindi	Basic Health Unit, Karahi Mial	BHU	MO/WMO	Dr. Humaira Naseem	0334-6202313	33.23576807	72.67030208
86	Rawalpindi	Basic Health Unit, Kolian Hameed	BHU	MO/WMO	Dr. Ali Raza Chahudry	0323-5506688	33.54175866	73.01403701
87	Rawalpindi	Basic Health Unit, Kotha Kalan	BHU	MO/WMO	Dr. Aqsha Khan	0345-5874871	33.35890469	73.10491078
88	Rawalpindi	Basic Health Unit, Lodhran	BHU	MO/WMO	Dr. Tehreen Khan	0342-5295899	33.20660001	72.78236452
89	Rawalpindi	Basic Health Unit, Misrial	BHU	MO/WMO	Dr. Momina Mukhtar	0333-5941614	33.31916507	72.76413607
90	Rawalpindi	Basic Health Unit, Rahmatabad	BHU	MO/WMO	Dr. Shahzahi Kanwal	0302-5184299	33.55058315	73.08917753
91	Rawalpindi	Basic Health Unit, Ranoutra	BHU	MO/WMO	Dr. Mehreen Saba Khurram	0312-5181805	33.48002493	73.24283481

92	Rawalpindi	Basic Health Unit, Rupper Kalan	BHU	MO/WMO	Dr. Ashfaq Ahmed	0301-5442601	33.21843345	72.87050148
93	Rawalpindi	Basic Health Unit, Sagri	BHU	MO/WMO	Dr. Muhammad Qamber Ali	0322-8007312	33.20640559	72.90614942
94	Rawalpindi	Basic Health Unit, Takht Pari	BHU	MO/WMO	Dr. Madiha Batool	0323-4988304	33.59137236	73.09980182
95	Taxila	Basic Health Unit, Bhudo	BHU	MO/WMO	Dr. Syeda Gul E Najaf	0334-5267344	33.26520382	72.87969203
96	Taxila	Basic Health Unit, Brehma	BHU	MO/WMO	Dr. Maria Jabeen	0314-5180622	33.47485808	73.26830836
97	Taxila	Basic Health Unit, Lab Thatu	BHU	MO/WMO	Dr. Anila Iqbal	0332-6578046	33.4747678	73.15469742
98	Taxila	Basic Health Unit, Pind Noshi	BHU	MO/WMO	Dr. Maria Mustaf	0331-6004176	33.46869928	73.18664275
99	Taxila	Basic Health Unit, Salargah	BHU	MO/WMO	Dr. Anosh Arshad	0341-5383157	33.35067809	72.92667747
100	Taxila	Basic Health Unit, Usman Khatter	BHU	MO/WMO	Dr. Memona Kanwal	0340-5888150	33.63331373	73.05002212
101	Rawalpindi	GHD Ahmed Abad Ward No.06	GHD	MO/WMO	Dr. Sana Latif	0336-5291082	33.73727247	72.70714317
102	Rawalpindi	GHD Azam Colony Ward No.9	GHD	MO/WMO	Dr. Javeria Zahoor Malik	0333-4499777	33.80257893	72.77038182
103	Rawalpindi	GHD Dhoke Mustaqeem Ward No. 10	GHD	MO/WMO	Dr. Maria Tahir	0333-0645025	33.85585263	72.74098421
104	Rawalpindi	GHD Dhoke Mustaqeem Ward No. 2	GHD	MO/WMO	Dr. Aqsa Anwar	0336-5278087	33.66218984	72.78498173
105	Rawalpindi	GHD Lal Kurti	GHD	MO/WMO	Dr. Junaid Asif	0324-5307999	33.80445421	72.85122693
106	Rawalpindi	GHD Naseera Abad Taj Bazar	GHD	MO/WMO	Dr. Javaira Saleh	0324-8993838	33.79308358	72.8220665
107	Rawalpindi	GHD National Colony Dhoke Gujran	GHD	MO/WMO	Dr. Nosheen Batool	0335-6519164		
108	Gujar Khan	Government Rural Dispensary, Kanyal Bajrana (Qutbal)	GRD	MO/WMO	Dr. Nasir Rafiq	0333-5541251		
109	Gujar Khan	Government Rural Dispensary, Ardra Usman Zada	GRD	MO/WMO	Dr. Hammad Mohsin	0345-9522142		
110	Gujar Khan	Government Rural Dispensary, Islam Pura Jabbar	GRD	MO/WMO	Dr. Muhammad Hamza Razi	0344-5582641		
111	Kallar	Government	GRD	MO/WMO	Dr. Aqsah	0332-8913853		

	Syedon	Rural Dispensary, Waliyat Abad			Baloch			
112	Murree	Government Rural Dispensary, Surasi	GRD	MO/WMO	Dr. Awais Tahir	0322-3134609		
113	Rawalpindi	Government Rural Dispensary, Punjab House	GRD	MO/WMO	Dr. Sadia Nawaz	0334-5141320		
114	Rawalpindi	Government Rural Dispensary, Saroba	GRD	MO/WMO	Dr. Muhammad Farhan Khan	0332-5494578		
115	Rawalpindi	Government Rural Dispensary, Shakrial	GRD	MO/WMO	Dr. Farha Ali Shah	032-15842495		

Annex IV: List of vulnerable Educational institutions

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
1	GES Dewal	Elementary	34°01'35.6"N 73°29'14.1"E	159	Mohsin Tasawar	0301-5500150
2	GES Sanj	Elementary	33°37'38.7"N 73°06'40.4"E	81	M. Adnan	0344-5088337
3	GES Dhar Jawa	Elementary	33°55'17.1"N 73°22'13.7"E	177	Waris Ali	03007674724
4	GES Lower Topa	Elementary	33°51'44.9"N 73°37'15.4"E	286	M.Yaseen	0322-9851136
5	GES Dehla	Elementary	33°33'21.4"N 73°01'24.5"E	185	Wajid Abbasi	0313-5840929
6	GES Musyari	Elementary	33°53'32.8"N 73°24'34.4"E	179	M.Ishtiaq	0314-9511972
7	GES Pateriata	Elementary	33°51'48.5"N 73°28'50.0"E	136	M. Minhas	0312-5223200
8	GES Lakot	Elementary	33°53'05.9"N 73°22'37.1"E	182	Ghazanfar Abbasi	0317-5890119
9	GES Taloot	Elementary	33°56'41.0"N 73°24'21.4"E	226	Waleed Masood	0311-4407195
10	GES Malot Dhundan	Elementary	33°56'56.4"N 73°26'58.4"E	93	Zaheer Ahmed	0333-5522334
11	GES Massot	Elementary	33°58'00.3"N 73°24'12.7"E	123	M Mubarak	03441055098
12	GES Numbromal	Elementary	33°58'55.6"N 73°29'48.5"E	147	Saqib Mehmood	0310-2487390
13	GES Salkhter	Elementary	33°46'46.4"N 73°16'08.6"E	244	Shoukat Pervaiz	0321-9566399
14	GES Sihanna	Elementary	33°57'06.5"N 73°30'27.6"E	208	Obaid Ur Rehman	0333-5501679
15	GES Lawrence College	Elementary	33°52'59.5"N 73°22'26.2"E	185	Sharaz Ahmed	0322-5364773
16	GES Deghel	Elementary	33°53'43.9"N 73°30'08.1"E	93	M. Asghar	0300-97718652
17	GPS Ausia	Primary	33°56'17.4"N 73°28'07.0"E	162	Muhammad Faheem	0345-5890028
18	GPS Bandi Dawal	Primary	33°59'48.4"N 73°29'19.8"E	88	Abdul Jabbar	3444620365
19	GPS Kohala	Primary	34°06'55.0"N 73°29'37.8"E	31	Naveed Hussain Shah	0345-5417763
20	GPS Pichwal	Primary		45	Zafar Mehmood	0345-5416727
21	GPS Bandi Dhundan	Primary	33°57'54.5"N 73°26'25.4"E	102	M. Rehan	0300-5072737
22	GPS Kaya	Primary	33°57'20.4"N 73°27'00.2"E	34	Shahid Zaheer	0311-8566229

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
23	GPS Tandoi	Primary		43	M. Minhas	0311-5224212
24	GPS Dhaka	Primary		45	Samar Abbas	0310-8508356
25	GPS Darra	Primary		44	Muhammad Shabbir	3454677023
26	GPS Dana	Primary		32	Saher Rasheed	0313-5111980
27	GPS Sorasi	Primary	33°52'30.3"N 73°28'15.7"E	82	Nazakar Hussain	0336-5278193
28	GPS Charhan	Primary	33°51'20.2"N 73°26'02.8"E	31	Tariq Mehmood	0312-5174896
29	GPS Khan Mohra	Primary	33°50'38.1"N 73°25'03.7"E	12	Ishfaq Hussain	0321-5648433
30	Gps Gulara	Primary	33°52'12.5"N 73°26'57.0"E	55	M. Ghias	0301-5299462
31	GPS Gulehara Gali	Primary		30	M. Yasir	0321-5086388
32	GPS Kamal Abad	Primary	33°52'19.6"N 73°26'57.7"E	76	Faizan Satti	0310-5226266
33	GPS Chinota	Primary		30	Amna Shabir	0311-9567996
34	GPS Peri Satgarah	Primary	33°49'58.5"N 73°25'27.7"E	33	Wajid Shah	0321-5646075
35	GPS Sakari	Primary	33°52'01.1"N 73°26'19.2"E	18	Ibrar Ahmed	0322-5792659
36	GPS Sarkundal	Primary	33°48'33.3"N 73°24'10.2"E	19	M. Anees	0311-1684499
37	GPS Bajuth	Primary		63	M. Zuhaib	0316-5332886
38	GPS Dilya	Primary		51	Ikram Mehmood	0321-5634249
39	GPS Broha	Primary	33°48'21.5"N 73°14'09.3"E	64	Rafi uz zaman	0300-5212770
40	GPS Aro Trimna	Primary	33°47'58.3"N 73°16'22.0"E	51	Amjad Mehmood	0311-4956869
41	GPS Gharr	Primary	33°35'03.6"N 73°04'01.2"E	39	M. Adeel	0314-5177850
42	GPS Seri	Primary		14	M.Rafiq	0321-5649581
43	GPS Ghel Sattian	Primary		80	Abdul Malik	0301-5176925
44	GPS Bilgaran	Primary	33°53'43.8"N 73°30'08.3"E	16	Ahsan Abrar	0310-5451497
45	GPS Bhanatti	Primary	33°53'43.7"N 73°30'08.0"E	41	M. Afsar	0345-8090269
46	GPS Bann	Primary		89	M. Aleem	0344-5060908
47	GPS Burahana	Primary	33°51'03.6"N 73°27'35.4"E	73	Asia Bibi	0316-5761642
48	GPS Kulyara Khater	Primary	33°48'50.3"N 73°26'13.4"E	24	Ghulam Fiza	0313-0508636
49	GPS Dhall	Primary		45	Shahzad Haroon	0310-5314320
50	GPS Jandat	Primary	33°49'32.2"N 73°28'25.9"E	30	M. Sufyan	0314-5418729

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
51	GPS Langhar	Primary	33°48'57.8"N 73°27'37.8"E	57	M. Abid	0300-5181708
52	GPS Pherl	Primary	33°37'38.3"N 73°06'43.9"E	38	M. Tayyab	0334-5685812
53	GPS Mulach	Primary		122	Muhammad Faizan	344.5287105
54	GPS Leeran	Primary	33°51'35.4"N 73°19'34.4"E	47	nazeer ahmed	3445190443
55	GPS Numbal Dana	Primary	33°50'48.6"N 73°22'36.6"E	50	Fayaz ahmed	3102053080
56	GPS Danna Awain	Primary		66	Anayatullah	3155649929
57	GPS Khujut	Primary	33°51'35.4"N 73°23'09.1"E	46	Anum bibi	0321-5582049
58	GPS Jaman	Primary	33°48'01.8"N 73°19'48.4"E	48	Fahim Nawaz	3208560421
59	GPS Kathar	Primary	33°50'48.7"N 73°22'37.7"E	39	Gul Zaman	0321-5545119
60	GPS Dhakki	Primary		18	Siraj Ul Haq	3109222023
61	GPS Kulla Begwal	Primary	33°46'34.2"N 73°22'07.7"E	37	Ishtiaq Hussain	3135520723
62	GPS Munghal	Primary	33°46'31.9"N 73°20'42.9"E	19	Tahir Nawaz	0321-9821921
63	GPS Manglota	Primary	33°51'16.8"N 73°22'55.0"E	82	Khaliqdad	3215791728
64	GPS Plasi	Primary	33°45'17.5"N 73°20'22.7"E	11	M.Zahoor	0341-0011602
65	GPS Pharri	Primary	33°49'19.4"N 73°19'31.9"E	63	Khaleel Ahmed	0300-5570179
66	GPS Besoi	Primary	33°48'42.2"N 73°15'11.4"E	73	M.Safeer	0345-5995328
67	GPS Jawa	Primary	33°54'39.1"N 73°21'44.1"E	50	M. Jaleel	0310-5471361
68	GPS Pithli	Primary	33°54'09.8"N 73°21'19.6"E	140	Munazza Kausar	0314-5248626
69	GPS Palli	Primary	33°53'33.4"N 73°20'54.3"E	75	Naveed Ahmed	0322-5412591
70	GPS Bansra Gali	Primary	33°53'40.8"N 73°21'59.0"E	81	Saqib Abbasi	0310-5054741
71	GPS Bohar Gran	Primary	33°51'23.9"N 73°19'43.7"E	134	Sajid Mehmood	0313-5655591
72	GPS Seri Bari	Primary	33°51'11.5"N 73°19'48.0"E	80	Fasal Pervaiz	0344-5154975
73	GPS Arwari	Primary	33°53'18.2"N 73°24'20.4"E	78	Safeer Ahmed	03125310674
74	GPS Bara Hoter	Primary	33°51'36.5"N 73°23'09.6"E	19	Khurram Shahzad	03465403350

S#	Name	Institute type (School, College etc.)	GPS Coordinates	Enrolment	Incharge Name	Contact Number
75	GPS Dhak	Primary		100	M Kamran	03105891083
76	GPS Lower Mohra	Primary	33°53'32.7"N 73°25'33.3"E	55	Rab Nawaz	03015304280
77	GPS Mohra Butnara	Primary	33°53'32.7"N 73°25'33.3"E	25	Zaib un Nisa	03225839420
78	GPS Sohawa	Primary	33°51'36.8"N 73°23'09.7"E	48	Azhar Mushtaq	03129301865
79	GPS Sumbal Biah	Primary		70	TASveer Akhtar	03449030811
80	GPS Gohi No.7	Primary	33°55'05.2"N 73°27'22.5"E	40	Muhammad Shahid	0344-0586892
81	GPS Kari	Primary	33°54'28.5"N 73°26'47.7"E	47	Sohail Ahmed Abbasi	3215876457
82	GPS Perh	Primary	33°54'07.0"N 73°26'35.1"E	37	Aamir Altaf	3218542378
83	GPS Birgran	Primary		101	Hamid Nawaz	3228554487
84	GPS Chitra Daonga	Primary		63	Sobia Shafique	03013322335
85	GPS Dongian	Primary		57	Rizwan Ahmed	03215632575

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 Deebea	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, Jhangji 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

Name Designation	Department	Telephone			
		Office	Residence	Mobile	Email
Noor-Ul-Amin Mengal	Commissioner	051-9292506	051-9286172	-	commissioner.rwp@gmail.com
Flt. Lt Tahir Farooq (DC)	DC Office	051-9292530	051-9292732	-	dcpindi@gmail.com
Kamran Rashid (DEO)	Rescue 1122	051-9290121	-	0333-7121122	deo.rwp@rescue.gov.pk
Umar Saeed Malik (CPO)	Punjab Police	051-9292629	051-9292631	0307-8883800	cporawalpindi@gmail.com
Cap. Qasim Ijaz ADC (G)	DC Office	051-9292532	-	0333-5424413	adcgrawalpindi@gmail.com
Usman Ashraf ADC (R)	DC Office	051-9292527	-	0334-8607147	adcrwp@gmail.com
Miss. Marzia Saleem, ADC (HQ)	DC Office	051-9292510	-	0333-7742467	adchqr.pindi@gmail.com
Maj Kaleem (Incharge)	PMD	051-9250690	-	0334-6163603	majkaleemkhan@gmail.com
Mr . Ghulam Mustafa (CDO)	Civil Defence	051-9292518 051-9292587	-	0300-6057125	gmustafag111974@gmail.com
Mr. Malik Taha Hussain (XEN)	(LG&CD)	-	-	0300-6011270	
Raja Shokat	MD(WASA)			0331-5202211	
Awais Tarar (MD)	RWMC	0519291116	-	0332-8444140	mdl.rwmc@gmail.com
Maj Muneeb	111 Brigade	051-5178904	-	0334-1769111	Sajeel.zaidi@gmail.com
Sher Ahmad Satti	Director (College & Education)	051-5554942	-	0331-5403744	
Dr. Ehsan Ghani	DHO	051-4831965	-	0300-5120341	ceodharawalpindi@gmail.com
Naveed Nawaz (Add CEO)	Rawalpindi Cantt Board	051-9274419	-	0333-7440033	naveednawal@gmail.com
Dr. Faiza Naeem. Chief Executive Officer	DHA, Rawalpindi	051-4831965	-	0333-6131267	ceodharwp@gmail.com
Ch. Amjad Hussain, Chief Officer MC	Municipal Corporation	051-5773333	-	0300-4186730	mccrawlpindi@gmail.com

Annex VIII: List of Volunteers

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
1	Talib Hussain		CDO, Rawalpindi	051-9292518		
2	Khalil Anwar		CDO, Rawalpindi	051-9292518		
3	Abdul Aziz		CDO, Rawalpindi	051-9292518		
4	Muhammad Ashraf		CDO, Rawalpindi	051-9292518		
5	Sajid Mehmood Minhas		CDO, Kahuta.	051-9292518		
6	Saadia Haleema		CDO, Rawalpindi	051-9292518		
7	Sadaf Zahoor		CDO, Rawalpindi	051-9292518		
8	M Kamran Nawaz		CDO, Rawalpindi	051-9292518		
9	Ghulam Sarwar		CDO, Rawalpindi	051-9292518		
10	Muhammad Sajjad		CDO, Rawalpindi	051-9292518		
11	Muhammad Shabbir		CDO, Rawalpindi	051-9292518		
12	Emanuel		CDO, Rawalpindi	051-9292518		
13	M Asad Saqlian		CDO, Rawalpindi	051-9292518		
14	Ubaid.ur.Rehman		CDO, Rawalpindi	051-9292518		
15	Adnan Ahmed		CDO, Rawalpindi	051-9292518		
16	Aqib Javed		CDO, Rawalpindi	051-9292518		
17	Saqib Hussain		CDO, Rawalpindi	051-9292518		
18	M Arsalan Akseer		CDO, Rawalpindi	051-9292518		
19	M. Hamid		CDO, Rawalpindi	051-9292518		
20	Shafiq Ahmed		CDO, Rawalpindi	051-9292518		
21	Abdul Sattar		CDO, Rawalpindi	051-9292518		
22	Muhammad Waqar		CDO, Rawalpindi	051-9292518		
23	Saeed Abbas		CDO, Rawalpindi	051-9292518		
24	Junaid Ali Shah		CDO, Rawalpindi	051-9292518		
25	M. Touseef		CDO, Rawalpindi	051-9292518		
26	Tabassum Bibi		CDO, Rawalpindi	051-9292518		
27	Samrina Akhtar		CDO, Rawalpindi	051-9292518		
28	Hasnat Hussain		CDO, Rawalpindi	051-9292518		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
29	Muhammad Jaffar		CDO, Rawalpindi	051-9292518		
30	Tahir Mehmood		CDO, Rawalpindi	051-9292518		
33	M. Imran		CDO, Kahuta.	051-9292518		
34	Iftikhar Ahmed		CDO, Rawalpindi	051-9292518		
35	Umer Hayat		CDO, Rawalpindi	051-9292518		
36	Shahzad Muhammad		CDO, Rawalpindi	051-9292518		
37	Faisal Waseem		CDO, Rawalpindi	051-9292518		
38	Javed Haider		CDO, Rawalpindi	051-9292518		
39	Muhammad Farooq		CDO, Rawalpindi	051-9292518		
40	Arshad Mehmood		CDO, Rawalpindi	051-9292518		
41	Mateen Tariq		CDO, Rawalpindi	051-9292518		
42	Adnan Hussain		CDO, Rawalpindi	051-9292518		
43	M. Abdullah Khan		CDO, Rawalpindi	051-9292518		
44	Nafees Gul		CDO, Rawalpindi	051-9292518		
45	Shahzad William		CDO, Rawalpindi	051-9292518		
46	Naveed Iqbal		CDO, Rawalpindi	051-9292518		
47	Aqib Ijaz		CDO, Rawalpindi	051-9292518		
48	Hamza Pervaz		CDO, Rawalpindi	051-9292518		
49	Waleed Thakar		CDO, Rawalpindi	051-9292518		
50	Wajahat Ali		CDO, Rawalpindi	051-9292518		
51	M. Ibrahim Sultan		CDO, Rawalpindi	051-9292518		
52	Muhammad Saad		CDO, Rawalpindi	051-9292518		
53	Fakhar Mehboob		CDO, Rawalpindi	051-9292518		
54	Babar Ali Sagar		CDO, Rawalpindi	051-9292518		
55	Abdul Shakoor		CDO, Rawalpindi	051-9292518		
56	Adeel Imtiaz		CDO, Rawalpindi	051-9292518		
57	Tasadaq Hussain		CDO, Rawalpindi	051-9292518		
58	Sheikh Irfan		CDO, Rawalpindi	051-9292518		
59	Shahzad Ahmed		CDO, Kahuta.	051-9292518		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
60	M. Asad		CDO, Rawalpindi	051-9292518		
61	Abdul Basit		CDO, Rawalpindi	051-9292518		
62	Haseeb.ur.Rehman		CDO, Rawalpindi	051-9292518		
63	Kamal Ahmed		CDO, Rawalpindi	051-9292518		
64	Wajid Iqbal		CDO, Rawalpindi	051-9292518		
65	M. Tahir		CDO, Rawalpindi	051-9292518		
66	Adeel Yaqoob		CDO, Rawalpindi	051-9292518		
67	Jaz.ul.Azeem		CDO, Rawalpindi	051-9292518		
68	Malik Paiker Maqsood			03335113884		
69	Ch. Muhammad Ejaz			03009705070		
70	Raja Amir Iqbal			03005551428		
71	Ch. Shaukat Ali			03009509941		
72	Saeed.ur.Rehman			03335335672		
73	Akhtar Subhani			03215826917		
74	Talha Touqeer			03008501606		
75	Syed Mukhtar Ali Shah S/o Syed Ghous Ali Shah,		F/110, New Mohallah, Tehsil Kahuta, District Rawalpindi.	03028926106		
76	Tahi Mehmood Malik S/o Malik Bagh Ali,		R/o F/004, Mohallah Bohri Channi, Tehsil Kahuta, District Rawalpindi.	03015387541		
77	Malik Abdul Zahid Awan S/o Bostan Khan,		R/o F/46, Channi, Kallar Road, Kahuta, Tehsil Kahuta, District Rawalpindi.	03325181929		
78	Abdul Shakoore Khattar S/o Muhammad Fayyaz,		R/o A/244, Mohallah Chahat, Tehsil Kahuta, District Rawalpindi.	03028958260		
79	Azhar Khan S/o Sultan Khan,		R/o A/214, Chamba, Tehsil Kahuta, District Rawlapindi.	03325175976		
80	Afzal Shamsi S/o Fateh Muhammad,		R/o E/242, New Mohallah, Tehsil Kahuta, District Rawalpindi.	03005506627		
81	Muhammad Bilal S/o Muhammad		R/o Gulshan Raza Colony, Tehsil	03015580640		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
	Riaz,		Kahuta, District Rawalpindi.			
82	Malik Umer Banaras S/o Malik Muhammad Banaras,		R/o Mohallah Channi Awan, Tehsil Kahuta, District Rawalpindi.	03465351604		
83	Muhammad Zaki Ullah S/o Malik Waheed Ahmed,		R/o F/236, Channi, Tehsil Kahuta, District Rawalpindi.	03235196782		
84	Malik Saqlain			03015485904		
85	Khurram Khan S/o Maqbool Khan,		R/o Mohallah Channi, Tehsil Kahuta, District Rawalpindi.	03028926106		
86	Raja Javed Sultan S/o Sultan Pervaiz,			03005521086		
87	Malik Amjad Mehmood S/o Malik Rahm Ali,			03145676825		
88	Malik Muneeb Saqib S/o Niaz Din,			03005506634		
89	Muhammad Hamais S/o Malik Arshad Mehmood,			03245244455		
90	Adeel Imtiaz S/o Imtiaz Hussain,			03425590002		
91	Touseef Ahmed S/o Munir Ahmed,			03425582600		
92	Malik Sajid Mehmood S/o Bagh Ali,			03028926106		
93	Farrukh Nadeem S/o Muhammad Khurshid,			03028926106		
94	Muhammad Saqlain S/o Muhammad Bashir,		R/o Saali Ferozal, P.O. Kahuta, Tehsil Kahuta.	03028926106		
95	Malik Muhammad Hameed S/o Haji Ghulab Khan,.		R/o CB-323, Kamal Abad, Rawalpindi	03455075943		
96	Talha Saeed S/o Saeed ud Din,		R/o House No. 2829, Mohallah Bosa Mandi, Rawalpindi.	03315445359		
97	Nasir Mehmood S/o Mehmood Sultan,		R/o Nai Abadi, Street No. 1, P.O. Attock Oil Company, Tehsil and District Rawlapindi.	03225113413		
98	Hasrat Mehboob S/o Mehboob		R/o Mohallah Chuadrian, Morgah,	03005135351		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
	Ellahi,		ARL, Rawalpindi.			
99	Muhammad Waheed Khan S/o Haji Ghulab Khan,		R/o House No. 30/44, Street No. 12- A, Kamal Abad, Rawalpindi.	03005233641		
100	Syed Ali Hassan S/o Syed Wasi Muhammad,		R/o A-188, Mohallah Nai Abadi No. 3, Tench Bhatta, Rawalpindi.	03045667107		
101	Muhammad Haroon Aziz S/o Aziz Ahmed,		R/o 196/A1, Street No. 10, Mohallah Abadi No. 3, Tench Bhatta, Rawalpindi.	03415159595		
102	Hamza Ali S/o Gulzar Hussain,		R/o House No. 916- A, Street No. 10, Tench Bhatta, Rawalpindi.	03453359135		
103	Sagheer Ahmed S/o Ahmed Din,		R/o 196-A, Street No. 10, Nai Abadi No. 3, Tench Bhatta, Rawalpindi.	03455118550		
104	Waqar Ahmed Mughal S/o Abdul Rehman,		R/o House No. 193, Street No. 10, Mohallah Abadi No. 3, Tench Bhatta, Rawalpindi.	03005115232		
105	Ali Haider S/o Akhtar Mehmood,.		R/o Awan Street, Zeeshan Colony, Dhoke Chuadrian, Rawalpindi	03455345128		
106	Talib Hussain S/o Muhammad Ashraf,		R/o Mohallah Awan Street, Dhoke Chuadrian, Rawalpindi.	03125806397		
107	Mushtaq Hussain S/o Muhammad Sadiq,		R/o House No. 974- E, Awan Street, Rawalpindi.	03121554883		
108	Imran Khan S/o Muhammad Ramzan,		R/o 974/E, Awan Mohallah, Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03145168331		
109	Yasir Mehmood S/o Mehmood Sadiq,		R/o Street No. 1, Awan Mohallah, Zeeshan Colony, Rawalpindi.	03115095050		
110	Muhammad Akhtar Mehmood S/o Hussain Akram,		R/o Awan Street, Mohallah Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03009543548		
111	Malik Shahid Mehmood S/o Muhammad		R/o Jinnah Street, Dhoke Chuadrian, Rawalpindi.	03335351712		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
	Sharif,					
112	Abdul Jabbar Khan S/o Abdul Karim Khan,		R/o House No. 1066/1, Street No. 15, Dhoke Banaras, Rawalpindi.	03025052575		
113	Muhammad Bashir S/o Abdul Rasheed,		R/o Street No. 7, Mohallah Millat Abad, Dhoke Banaras, Rawalpindi.	03335715078		
114	Babar Ali Mujahid S/o Muhammad Ashraf Mujahid,		R/o ASGI, Mohallah Carto and Repro Unit 477, Survey, Rawalpindi.	03145066833		
115	Muhammad Waseem Farrukh S/o Raja Muhammad Manzoor,		R/o House No. D- 786, Street No. 4, Dhoke Chuadrian, Rawalpindi.	03131541108		
116	Tufail Hussain S/o Muhammad Ashraf,		R/o House No. 974/V, Dhoke Chuadrian, Rawalpindi.	03135265113		
117	Bilal Ahmed S/o Mehmood Ahmed Khan,		R/o House No. 976/B, Mohallah Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03101051015		
118	Qamar Zaman S/o Muhammad Aslam,		R/o House No. 974/2, Awan Street, Dhoke Chuadrian, Rawalpindi.	03135953258		
119	Gulfam Abbas S/o Khalid Iqbal,		R/o House No. 974/V, Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03235076642		
120	Sajid Hussain S/o Muhammad Ramzan,		R/o 974/E, Awan Street, Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03115441114		
121	Muhammad Nadeem S/o Muhammad Sadiq,		R/o House No. F-5, Street No. 2, Gulnar Colony, Dhoke Chuadrian, Rawalpindi Cantt.	03315449780		
122	Yaqoob Khan S/o Mehmood Khan,		R/o 46/15, Allama Iqbal Colony, Tench Bhatta, Rawalpindi.	03156311549		
123	Muhammad Ali S/o Muhammad Sadiq,		R/o House No. 974/E, Mohallah Dhoke Chuadrian, Rawalpindi.	03156311549		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
124	Mazhar Hussain S/o Ghulam Hussain,		R/o House No. 974, Mohallah Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03219588976		
125	Sohail Azeem S/o Ghulam Rasool,		R/o House No. 974, Dhoke Chuadrian, Awan Market, Rawalpindi.	03455536151		
126	Umar Farooq S/o Khan Muhammad,		R/o 945/10, Dhoke Chuadrian, Cab Line, Rawalpindi.	03005227161		
127	Malik Muhammad Jahangir S/o Malik Muhammad Sharif,		R/o M-945, Jinnah Street, Afshan Colony, Rawalpindi.	03005568025		
128	Muhammad Irfan S/o Muhammad Ilyas		R/o House No. 128, Mohallah Mandar Wali, Westridge Bazar, Rawalpindi	03455492404		
129	Zahid Mehmood Bhatti S/o Jahmshed Khan Bhatti,		R/o Mohallah Ashraf Colony, Rawalpindi.	03235532786		
130	Shahzad Jamashed Bhatti S/o Jamashed Khan Bhatti,		R/o Mohallah Ashraf Colony, Rawalpindi.	03235532786		
131	Aurangzeb Khan S/o Shafiq.ur.Rehman Khan,		R/o Pathan Colony, Dhamial, Rawalpindi.	03235532786		
132	Muhammad Asad Shakeel S/o Shakeel Ahmed,		R/o Mohallah Liaquat Colony, Chakri Road, Dhamial, Rawalpindi.	03235532786		
133	Muhammad Sohail S/o Sultan Khan,		R/o Street No. 1, Mohallah Ashraf Colony, Rawalpindi.	03225337420		
134	Arslan Khan S/o Shabbir Ahmed Khan,.		R/o Mohallah Pathan Colony, Dhamial Road, Rawlapindi	03225337420		
135	Zeeshan Ali S/o Talib Mehmood		R/o Dhamial, Post Office Same, Tehsil and District Rawalpindi.	03225337420		
136	Muhammad Nazar S/o Ghulam Muhammad,		Cab Line, House No. 49/B-2, Nazar Street, Dhoke Chuadrian, Rawalpindi.	03335635607		
137	Qaiser Ali Zaman S/o Muhammad Azam,		R/o Mohallah Mohammadi Colony, Dhoke Chuadrian,	03135053835		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
			Rawalpindi.			
138	Usman Haider S/o Akhtar Mehmood,		R/o Awan Street, House No. 974-Z/7, Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03431557769		
139	Bin.ya.Meen S/o Abdul Karim,		R/o House No. CB- 56, Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03345508826		
140	Muhammad Islam Qamar S/o Qamar Zaman,		R/o House No. 974/2, Dhoke Chuadrian, Rawalpindi.	03135953258		
141	Yasir Mehmood S/o Muhammad Qayyum,		R/o 46-A/7, Zeeshan Colony, Dhoke Chuadrian, Rawalpindi.	03005172975		
142	Saeed.ur.Rehman S/o Saif.ur.Rehman			03335335672		
143	Faheem Ullah Khan S/o Razaqat Ullah Khan,		R/o B-1215, Satellite Town, Rawalpindi.	03335200502		
144	Waqas Ansari S/o Muhammad Manam,		R/o CA-114, Chisitan Abad, Pindora, Rawalpindi.	03335415977		
145	Muhammad Fayyaz S/o Muhammad Niaz,		R/o Dhoke Paracha, DK-435, Rawalpindi.	03005595951		
146	Zain Ahmed S/o Munir Ahmed,		R/o House No. H- 169, Street No. 5, Chachi, Rawalpindi.	03115530347		
147	Abid Hussain S/o Muhammad Irfan,		R/o BI-373, Street No. 2, Mohallah Muslim Town, Sadiq Abad, Rawalpindi.	03465283583		
148	Muhammad Noman Arshad S/o Arshad Javed,		R/o B-1230, Mohallah Satellite Town, Rawalpindi.	03005029460		
149	Saad Ahmed Ansari S/o Sardar Ahmed Ansari,		R/o House No. 561, Street No. 68, Sector I-8/3, Islamabad.	03225004903		
150	Zaheer Ahmed Khan S/o Raja Muhammad Azam Khan,		R/o House No. J- 184, Dhoke Khabba, Rawalpindi.	03355544417		
151	Awais Waheed S/o Abdul Waheed Sheikh,		R/o B-816, Satellite Town, B Block, Rawalpindi.	03155269290		
152	Muhammad Azam Usmani S/o		R/o House No. B- 270, Satellite Town,	03335347893		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
	Anwar Ahmed,.		Rawalpindi			
153	Muhammad Javed S/o Rehmat Ullah,		R/o House No. AA-1125, Street No. 31, Gulshan Abad, Rawalpindi.			
154	Hamza Zakir Abbasi S/o Zakir Hussain Abbasi,		R/o House No. DK-336, Dhoke Kashmiran, Rawalpindi.	03101858370		
155	Khurram Zulfiqar S/o Zulfiqar Ahmed,		R/o DK-299, Street No. 14, Dhoke Kashmiran, Rawalpindi.	03360504580		
156	Mubashar Hussain S/o Rashid,		R/o DK-299, Street No. 14, Dhoke Kashmiran, Rawalpindi.	03342959960		
157	Sikander Zulfiqar S/o Zulfiqar Ahmed,		R/o DK-299, Street No. 14, Dhoke Kashmiran, Rawalpindi.	03030050072		
158	Muhammad Behroz S/o Muhammad Ijaz,		R/o DK-299, Street No. 14, Dhoke Kashmiran, Rawalpindi.	03125300129		
159	Ahsan Sabir Awan S/o Sabir Hussain,		R/o House No. DK-270, Street No. 13, Dhoke Kashmiran, Rawalpindi.	03105226743		
160	Muhammad Danish S/o Muhammad Ijaz Gul,		R/o House No. WS-16, Street No. 5, Mohallah Ameer Hamza, Shakrial, Rawalpindi.	03105226275		
161	Sajjad Hussain S/o Muhammad Faras,		R/o Ch. Noor Muhammad Road, House No. SK-23/12, Street No. 3, Karim Abad, Shakrial, Rawalpindi.	03335184853		
162	Ajmal Hussain S/o Muhammad Faras,		R/o House No. 3, Street No. 3, Karim Abad, Shakrial, Rawalpindi.	03455244826		
163	Sajid Mehmood S/o Muhammad Jamashed,		R/o House No. 3, St. No. 10, Rahim Town, Shakrial, Rawalpindi.	03456938493		
164	Zamir Ahmed S/o Muhammad Jamashed,		R/o House No. 3, St. No. 10, Rahim Town, Shakrial, Rawalpindi.	03455207167		
165	Syed Israr Ali Shah S/o Syed Imtiaz Ali,		R/o B1-970, Street No. 2, Sadiq Abad, Rawalpindi.			

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
166	Sheikh Tabish Iqbal S/o Sheikh Pervaiz Iqbal,		R/o 299-W, Street No. 1, Mohallah Range Road, Afshan Colony, Rawalpindi.	03219554555		
167	Muhammad Azam Malik S/o Iftikhar Ali Malik,		R/o 185, Said Pur Scheme No. 2, Azam Chowk, Rawlapindi.			
168	Muhammad Suleman Malik S/o Iftikhar Ali Malik,		R/o 185, Said Pur Scheme No. 2, Azam Chowk, Rawlapindi.	03344412226		
169	Muhammad Hamza Malik S/o Amjad Ali Malik,		R/o 185, Said Pur Scheme No. 2, Azam Chowk, Rawlapindi.	03335635564		
170	Aman Ullah S/o Raja Mir Afzal Satti,		R/o Biaga, Post Office Same, Tehsil Kotli Sattian, District Rawalpindi.			
171	Akhtar Subhani S/o Mehboob Subhani,		R/o House No. 788/749, Street / Mohallah 16, Qasim Abad, Rawalpindi.	03215826917		
172	Muhammad Nawaz S/o Nawab Khan,		R/o House No. 591, Dhoke Ellahi Bukhsh, Rawalpindi.	03345886466		
173	Numeari Raja S/o Raja Muhammad Bashir,.		R/o House No. NE-1264, Dhoke Farman Ali, Chaklala Road, Rawlapindi	03000889177		
174	Zafeer Ahmed S/o Gul Hassan,		R/o House No. NE-228, Street No. 7, Mohallah Tehmasib Abad, Rawalpindi.	03445558837		
175	Muhammad Saeed Akhtar Butt S/o Muhammad Ashraf,		R/o Ch. Feroz Khan Seth Muhammad Khan Road, House No. NE-912, Rawalpindi.	03005230701		
176	Asif Mehmood S/o Muhammad Ashraf,		R/o House No. NE-870, Mohallah Ch. Feroz Khan, Rawalpindi.	03129186179		
177	Muhammad Aqeel S/o Muhammad Ashfaq,		R/o House No. J-834, Street No. 7, Dhoke Khabba, Rawalpindi.	03115694790		
178	Muhammad Imran S/o Razzaq Hussain,		R/o NE-775, Mohallah Ch. Feroz Khan, Rawalpindi.	03425083403		
179	Fahad Mehmood Abbasi S/o Tariq Mehmood,		R/o House No. NE-1377, Street No. 1, Dhoke Farman, Rawalpindi.	03115221481		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
180	Muhammad Zubair S/o Muhammad Ramzan,		R/o NE-786, Mohallah Ch. Feroz Din, Rawalpindi.	03235507310		
181	Iftikhar Ahmed Butt S/o Nazar Muhammad Butt,		R/o N-1146, Street No. 45, Rawalpindi.	03455207013		
182	Ahmed Nawaz S/o Malik Fazal Hussain,		R/o NE-757, Street No. 4, Mohallah Dhoke Ch. Feroz, Rawalpindi.	03043917401		
183	Mirza Zia.ul.Haq S/o Mirza Muhammad Akram,		R/o M-1247, Amar Pura, Rawalpindi.	03335155823		
184	Shaukat Hussain S/o Muhammad Hussain,		R/o NE-2202, Street No. 19, Mohallah Hukam Dad, Rawalpindi.	03065470860		
185	Babar Shahzad Balooch S/o Muzaffar Khan,		R/o House No. 46, Street No. 6, Muzamail Town, Kurri Road, Shakrial, Rawalpindi.	03115076977		
186	Imran Kamal S/o Muhammad Firdous Kamal,		R/o NE-509, National Town, Dhoke Farman, Rawalpindi.	03341518172		
187	Muhammad Shahid Butt S/o Muhammad Saeed Akhtar,		R/o NE-912, Ch. Feroz Khan Road, Rawalpindi.	03335230721		
188	Waqas Ali S/o Ghulam Ali,		R/o L-195, Street No. 6, Tali Mohallah, Qasim Abad, Rawalpindi.	03365257279		
189	Yousaf Khan S/o Taj Muhammad Khan,		R/o M-1014, Street No. 57, Mohallah Amar Pura, Rawalpindi.	03455336815		
190	Abid Hameed S/o Abdul Hameed,		R/o NE-1166, Street No. 2, Ch. Hukam Dad Mohallah, Rawalpindi.	03445471988		
191	Amir Rasheed S/o Rasheed Ahmed Malik,		R/o M-1308, Street No. 55, Amar Pura, Rawalpindi.	03335327673		
192	Tanveer Ahmed S/o Gul Hassan,		R/o NE-228, St. No. 7, Tehmasib Abad, Rawalpindi.	03345351239		
193	Tariq Mehmood S/o Faqir Muhammad,		R/o NE-1328, Street No. 25, Hukam Dad, Rawalpindi.	03105682615		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
194	Muhammad Taj S/o Channan Din,.		R/o House No. 204/3, Street No. 10, Tehmasib Abad, Rawalpindi	03455636062		
195	Muhammad Shan Mughal S/o Khalid Mehmood,		R/o NE-1440, Street No. 12, Amar Pura, Rawalpindi.	03125894714		
196	Naveed Ahmed S/o Ghulam Fareed,		R/o Dhoke Chiragh Din, O-739, Street No. 5, Karam Ellahi, Rawalpindi.	03155010320		
197	Waqas Qureshi S/o Muhammad Riaz Qureshi,		R/o House No. 1365/11, Dhoke Chiragh Din, Rawalpindi.	03155505169		
198	Muhammad Hafeez S/o Abdul Qayyum,		R/o House No. 741- A, Karam Ellahi, Rawalpindi.	03215828755		
199	Shaukat Ullah Khan S/o Amanat Ullah Khan,		R/o House No. A- 591/F, Dhoke	03445434221		
200	Muhammad Dawood S/o Muhammad Umer,		R/o NE-1520, Street No. 5, Dhoke Farman Ali, Rawalpindi.	03355386513		
201	Rizwan Kamal S/o Muhammad Firdous Kamal,		R/o NE-509, Mohallah Dhoke Farman Ali, Rawalpindi.	03455389778		
202	Faisal Arshad Mehmood S/o Arshad Mehmood,		R/o NE-800, Street No. 6, Mohallah Ch. Feroz Khan, Rawalpindi.	03015183110		
203	Abid Hussain S/o Khadim Hussain,		R/o House No. J- 833/3, Street No. 9, Dhoke Khabba, Rawalpindi.	03465385857		
204	Syed Imtiaz Ali Shah S/o Syed Akbar Ali,		R/o B1-970, Street No. 2, Muslim Town, Rawalpindi.	03348538836		
205	Muhammad Shahzad S/o Muhammad Banaras,		R/o NE-488, Street No. 1, Mohallah Dhoke Farman Ali, Rawalpindi.	03155598101		
206	Younis Bhatti S/o Nawab Bhatti,		R/o House No. 1132, Street No. 3, Fazal Abad, Rawalpindi.	03355386513		
207	Naeem.ul.Haq S/o Muhammad Zareen,		R/o House No. 1130/A, Street No. 3, Mohallah Fazal Abad, Rawalpindi.	03355386513		
208	Imran S/o Anwar Masi,		R/o House No. NE- 460, Umar Road, Dhoke Ellahi	03355386513		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
			Bukhsh, Rawalpindi.			
209	Farman S/o Nazar,		R/o Mohallah James Town, Kalyal, Adiyala Road, Rawalpindi.	03355386513		
210	Yousaf Masih S/o Taj Masih,		R/o House No. NE- 443, Street No. 2, Mohallah Dhoke Ellahi Bukhsh, Rawalpindi.	03355386513		
211	Hasnain Khushal Khan S/o Khushal Khan,		R/o House No. J- 842, Street No. 7, Dhoke Khabba, Rawalpindi.	03355386513		
212	Shah Rukh Anwar S/o Anwar Masih,.		R/o House No. 1132, Street No. 3, Mohallah Fazal Abad, Rawalpindi	03355386513		
213	Syed Mukhtar Ali Shah S/o Shah Sawar,		R/o House No. 177, St. No. 5, Tehmasib Abad, Rawalpindi.	03005191331		
214	Rab Nawaz Abbasi S/o Gulzar Khan Abbasi,		R/o Rehmat Manzil, House No. G-114, Street No. 5, Usman Pura, Rawalpindi.	03335126272		
215	Muhammad Tariq S/o Abdul Salam,		R/o House No. G- 114/20, Mohallah Usman Pura, Rawalpindi.	03009773281		
216	Malik Farzand Ali S/o Umar Din,		R/o Kashmiri Bazar, Tehsil Wali Gali, House No. 159, Rawalpindi.	03009789449		
217	Rehan Ahmed Butt S/o Muhammad Shamas.ul.Haq,		R/o M-424, St. No. 9, Mohallah Waris Khan, Rawalpindi.	03005036484		
218	Iftikhar Hussain Shah S/o Syed Shah Sawar,		R/o House No. 177, St. No. 5, Tehmasib Abad, Rawalpindi.	03005208910		
219	Qadir Khan S/o Wali Muhammad Khan,		R/o House No. Z- 645, St. No. 2, Mohallah Sarfaraz Khan, Rawalpindi.	03005100702		
220	Ch. Noman Hafeez S/o Ch. Abdul Hafeez,		R/o House No. B-20, Nai Mohallah, Palace Market, Rawalpindi.	03224051504		
221	Manzoor Ellahi S/o Jan Muhammad,		R/o Liaquat Road, House No. G-513, Street No. 13, Rawalpindi.	03335123133		
222	Muhammad S/o Javed Iqbal,		R/o 732, Street No. 106, Sector 10/4, Islamabad	03335473880		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
223	Abdul Majeed Awan S/o Siraj Din,		R/o House No. G- 114/31, Street No. 5, Usman Pura, Rawalpindi.	03467338339		
224	Sulman Ahmed Butt S/o Muhammad Shamas.ul.Haq,		R/o House No. G-56, St. No. 11, Usman Pura, Rawalpindi.	03005143977		
225	Habib Ullah Khan S/o Nasar Ullah Khan,		R/o ZB-211, Dhoke Hassu, Rawalpindi.	03129821614		
226	Sajid Hussain Shah S/o Syed Shah Sawar,		R/o House No. 171- A, St. 5, Tehmasib Abad, Rawlapindi.	0300532614		
227	Ehtasham Mukhtar S/o Mukhtar Hussain Shah,		R/o House No. 171- A, St. 5, Tehmasib Abad, Rawlapindi.	03025025940		
228	Muhammad Basit Awan S/o Muhammad Maqsood Khan,		R/o House No. ZB- 2688, St. No. 4, Nawab Colony, Dhoke Hassu, Rawalpindi.	03325094637		
229	Aziz.ur.Rheman S/o Bahadar Khan,		R/o House No. 321, Street No. 14, Fuji Colony, Rawalpindi.	03345375316		
230	Arsalan Mukhtar S/o Mukhtar Hussain Shah,		R/o House No. 171- A, St. No. 5, Tehmasib Abad, Rawalpindi.	03435124192		
231	Muhammad Sagheer S/o Faiz Muhammad,		R/o ZA-1531, Malik Colony, Mangtal, Rawalpindi.	03125119884		
232	Safeer Ahmed S/o Wazir Ahmed,		R/o House No. F-16, British Homes, Peshawar Road, Rawalpindi.	03345334334		
233	Jameel.ud.Din S/o Islam.ud.Din Sheikh,		R/o House No. ZB- 59, Dhoke Hassu, Alam Abad, Rawalpindi.	03326300034		
234	Sher Ghulab S/o Din Muhammad Khan,		R/o House No. 433, St. No. 23, Fuji Colony, Rawalpindi.	03335234263		
235	Muhammad Nadeem S/o Muhammad Hussain,		R/o ZB-133, Street No. 7, Alam Abad, Dhoke Hassu, Rawalpindi.	03005218137		
236	Mirza Sagheer Baig S/o Mirza Ameer Baig,		R/o House No. B-64, St. No. 6, Nai Mohallah, Rawalpindi.	03335194773		
237	Naqash Hussain Shah S/o		R/o House No. 171- A, St. No. 5,	03435124192		

S#	Volunteer Name	CNIC	Address	Contact Number Email	Bloo Group	Time Required to be on- board
	Mukhtar Hussain Shah,.		Tehmasib Abad, Rawalpindi			
238	Rabbani Gul S/o Hazrat Ali,		R/o House No. ZB- 144, Street No. 27, Fuji Colony, Pirwadhi, Rawalpindi.	03145133145		
239	Muhammad Zeeshan S/o Muhammad Iftikhar,		R/o P-1034/AL, Said Pur Road, Asghar Mall, Rawalpindi.	03005208299		
240	Muhammad Danial S/o Muhammad Iftikhar,		R/o P-1034/AL, Said Pur Road, Asghar Mall, Rawalpindi.	03315255899		
241	Shamim Akhtar W/o Abdul Razzaq,		R/o House No. B- 663-1, Street No. 7, Trunk Bazar, Rawalpindi.	03005100702		
242	Rehana Kausar W/o Rajjab Muhammad,.		R/o House No. ZB- 165, Street No. 5, Mohallah Alam Abad, Rawalpindi	03335173880		
243	Lubna Iqbal W/o Mirza Abdul Qayyum,		R/o B-559, Street No. 26, Nai Mohallah, Rawalpindi.	03005100702		
244	Muhammad Umar S/o Muhammad Ramzan,		R/o Habib Colony, Westridge III, Rawalpindi.	03155327053		

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	Sadaqat Ali Abbasi			PP-1	Syed Yawar Abbas		
NA-51	Mufti Abdul Shakoor			PP-2	Jahangir Khanzada		
NA-52	Raja Khurram Shahzad			PP-3	Iftikhar Ahmed		
NA-53	Ali Nawaz Awan			PP-4	Malik M. Anwar		
NA-54	Asad Umer			PP-5	Jamshad Altaf		
NA-55	Tahir Sadiq			PP-6	M. Latasab Satti		
NA-56	Malik Sohail Khan			PP-7	Raja Sagheer Ahmed		
				PP-8	Javed Kausar		
				PP-9	Ch. Sajid Mehmood		
				PP-10	Ch. Nisar Ali Khan		

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	Punjnad Head works Division	Right Marginal Bund	15,000
2	-do-	Left Marginal Bund	15,000
3	-do-	Colony Protection Bund	15,000
4	Khanpur Canal Division	Minchin Flood Bund	10,000
Total in feet.			55,000
Total in Miles.			10.42
MULTAN ZONE.			
1	Trimmu Division	Right Marginal Bund	20,000
2	-do-	Left Marginal Bund	20,000
3	Sulemanki Division	Left Marginal Bund	10,000
4	-do-	Right Marginal Bund	10,000
5	Shuja Canal Division	Right Bank of Shujabad Branch	10,000
6	-do-	Akbar Flood Bund	10,000
Total in feet.			80,000
Total in Miles.			15.15
D.G.KHAN ZONE			
1	Taunsa Barrage	Right Guide Bund Upstream	15,000
2	-do-	Left Guide Bund	20,000
3	-do-	Shahwala Groyne	10,000
4	Muzaffargarh Canal Division	Muzaffargarh Flood Bund	50,000
5	-do-	Doaba Flood Bund.	5,000
6	-do-	Khargarh 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	Punjad Headworks Division	-do-	90,000
2	Khanpur Canal Division	-do-	100,000
3	Bahawalpur Canal Division	-do-	50,000
4	Rahimyar Canal Division	-do-	50,000
Total in feet.			290,000
Total in miles			54.92
MULTAN ZONE			
1	Trimmu Division	-do-	80,000

2	Suleimanki Division	-do-	50,000
3	Shujabad Canal Division	-do-	60,000
	Total in feet.		190,000
	Total in miles		35.98
<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
RAVI	Punjnad	7	1.5	2	3	4.5	6
	Jassar	2.75	0.5	0.75	1	1.5	2
	Ravi Syphon	4	0.4	0.65	0.9	1.35	1.8
	Shahdara	2.5	0.4	0.65	0.9	1.35	1.8
SUTLEJ	Balloki	2.25	0.4	0.65	0.9	1.35	1.8
	Sidhnai	1.5	0.3	0.45	0.6	0.9	1.3
	G.S.Wala	10 ft.	19.5	21.5	23.3	25.3	
	Suleimanki	3.25	0.5	0.8	1.2	1.75	2.25
	Islam 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.